

# Features to be Tested

## - Student profile

| Features              | Description                                                                                                                                                     | Level |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Log-in                | Student can login with student code and their password. After login, student profile will show. If password or student code is wrong, message error will alert. | 1     |
| Connect with Facebook | Students can connect or disconnect with their facebook.                                                                                                         | 9     |

## - Advisor

| Features            | Description                                                                                                                                                                              | Level |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Advisor Information | <ul style="list-style-type: none"><li>● Advisor : Show information of advisor</li><li>● Advising information : Show course and status that students advise with their advisor.</li></ul> | 13    |

## - Academic

| Features   | Description                                                                                                                                                                                 | Level |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Grade List | <ul style="list-style-type: none"><li>● By semester : Show course and grade of student in each semester and year.</li><li>● By curriculum : Show curriculum of students' faculty.</li></ul> | 7     |

|               |                                                                                                                                                                   |   |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|               | If students studied, grade will show and have green point. If students are studying, it will show yellow point. If students don't study, it will show gray point. |   |
| Grade Summary | Grade in each semester will show in graph, and below graph it show group of course group by grade.                                                                | 8 |

- Student Schedule

| <b>Features</b>   | <b>Description</b>                                                                                                                                                                                                                                                                       | <b>Level</b> |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Class Schedule    | <ul style="list-style-type: none"> <li>● Class : Schedule in this semester will show table with color on day and time that have class and have detail in each class below table.</li> <li>● Examination : Students can click to see examination date and time in each course.</li> </ul> | 4            |
| Examination       | Show examination information in this semester.                                                                                                                                                                                                                                           | 5            |
| Previous semester | Show list of previous schedule class, can see course detail.                                                                                                                                                                                                                             | 6            |

- Pre-registration

| <b>Features</b> | <b>Description</b> | <b>Level</b> |
|-----------------|--------------------|--------------|
|-----------------|--------------------|--------------|

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Pre-registration Result | Pre-regist time in each student will show above Pre-regist result menu. After click it, if student don't pre-registration, it show nothing. If student already pre-regist, it will show schedule of pre-result that success.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 12 |
| Plan List               | <p>Student can see date and time to pre-registration and can click icon plus to add plan. If it is not time to plan, message error will show. After that,</p> <ul style="list-style-type: none"> <li>● Student can click add course. Search course page will show and students can find course, see section, and click to select section add in plan. If courses do not open in next semester error message will show. They can add and delete course that they select.</li> <li>● Show schedule : when students finish to add course, they click show schedule, it will show schedule of course that they add. If it has something conflict, error message will show. And click heart icon to save favourite plan.</li> <li>● Setting : They can set constraints of course in schedule.</li> </ul> | 11 |

- Class Search

| Features | Description | Level |
|----------|-------------|-------|
|----------|-------------|-------|

|              |                                                                                                                                                        |    |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Class search | Student can search class by Course code or Course name, and can click to see section in each course. They can select semester and year that they want. | 10 |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|

- App Setting

| Features       | Description                                                                                                                                 | Level |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Reset password | Student will input information to reset their password and click submit. If it has some text field blank or wrong, message error will show. | 2     |
| Rate us        | Connect with Play store for rate application.                                                                                               | 15    |
| Log out        | Logout AU Spark, comeback log-in page.                                                                                                      | 3     |

- Other

| Features | Description                                                                                   | Level |
|----------|-----------------------------------------------------------------------------------------------|-------|
| Calendar | Show Calendar and students can see important date, for example holiday or open semester date. | 14    |

# Approach Refinements

Our testing do not access the database and not know source code in Au spark app. we have to test functional and I use automated testing Appium and Selenium server on android

## Test Identification

- Student profile
  - Feature : Log-in
  - Feature ID : F0101

### Test Procedure

1. Input student id and password
2. click “Log-in” button

| Test Case Scenario                 | Test Case ID | Short Description                                                                                                                                                                                                                                                                                       | Data                                     | Expect Result |
|------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------|
| Valid username<br>Invalid password | F0101-01     | Enter right username and wrong password<br><br><u>Still found “Log-In” Button</u><br>Error message : Incorrect Student ID or Password. Your password for AU SPARK It the first 6 digits of citizen ID or passport number followed by your birthdate.(for example, 12345629/06/1996 or AB123429/06/1996) | Username :<br>5615959<br>Password : 1100 | True          |

|                                            |          |                                                                                                                                                                                                                                                                                                                                 |                                                             |               |
|--------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------|
| Invalid username<br>Valid password         | F0101-02 | Enter wrong username and right<br><br><u>Still found "Log-In" Button</u><br>Error message : Incorrect Student ID or Password. Your password for AU SPARK It the first 6 digits of citizen ID or passport number followed by your birthdate.(for example, 12345629/06/1996 or AB123429/06/1996)                                  | Username :<br>561595<br>Password :<br>11009026/06/19<br>95  | True          |
| Success login                              | F0101-03 | Enter right username and password<br><br><u>Not found "Log-In" Button</u><br>First name : Kornkamol<br>Last name : Kiatopas<br>Faculty : Science and technology<br>Major : Computer science<br>Student ID : 5615959<br>Years : 3 ½<br>GPA : 3.13<br>Credits : 124<br>Advisor name : Songsak Channarukul<br>Room name : VMS 0608 | Username :<br>5615959<br>Password :<br>11009026/06/19<br>95 | False<br>True |
| Empty input in<br>username and<br>password | F0101-04 | Do not put username and password and<br>click log-in button<br><br><u>Still found "Log-In" Button</u><br>Error message : Invalid input                                                                                                                                                                                          | Username :<br>Password :                                    | True          |
| Empty password                             | F0101-05 | Fill only username<br><br><u>Still found "Log-In" Button</u><br>Error message : Invalid input                                                                                                                                                                                                                                   | Username :<br>5615959<br>Password :                         | True          |
| Empty username                             | F0101-06 | Fill only password                                                                                                                                                                                                                                                                                                              | Username :                                                  | True          |

|  |  |                                                              |                                    |  |
|--|--|--------------------------------------------------------------|------------------------------------|--|
|  |  | Still found "Log-In" Button<br>Error message : Invalid input | Password :<br>11009026/06/19<br>95 |  |
|--|--|--------------------------------------------------------------|------------------------------------|--|

- Feature : Connect with Facebook
- Feature ID : F0102

### Test Procedure

1. click "connect with facebook" button to connect and follow step of facebook

| Test Case Scenario      | Test Case ID | Short Description               | Data                             | Expect Result                                                  |
|-------------------------|--------------|---------------------------------|----------------------------------|----------------------------------------------------------------|
| Connect Facebook        | F0102-01     | Connect with student's Facebook | Connect as student id<br>5615959 | Facebook button change to be "Connected as Kornkamol Kiatopas" |
| Cannot connect Facebook | F0102-02     | Fail to connect Facebook        | Connect as student id<br>5615959 | Facebook button is ""                                          |

- Feature : Disconnect with Facebook
- Feature ID : F0103

### Test Procedure

1. click "Connect as Facebook" to disconnect

| Test Case Scenario | Test Case ID | Short Description | Data | Expect Result |
|--------------------|--------------|-------------------|------|---------------|
|--------------------|--------------|-------------------|------|---------------|

|                            |          |                                |                                     |                                                                |
|----------------------------|----------|--------------------------------|-------------------------------------|----------------------------------------------------------------|
| Disconnect facebook        | F0103-01 | Succeed to disconnect Facebook | Required to connect facebook before | String of "Connect as Facebook" change to be "Connect" button. |
| Cannot disconnect facebook | F0103-02 | Fail to disconnect Facebook    | Required to connect facebook before | String still be "Connected as Facebook".                       |

- Advisor

- Feature : Advisor information
- Feature ID : F0201

### Test Procedure

1. open menu sidebar
2. click on name of advisor

| Test Case Scenario          | Test Case ID | Short Description                                               | Data                    | Expect Result                                                                                                                                                                                                         |
|-----------------------------|--------------|-----------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Student have advisor        | F0201-01     | Show advisor information of student                             | Login with ID : 5615959 | Advisor's name : SONGSAK CHANNARUKUL<br>Faculty : SCIENCE AND TECHNOLOGY<br>Major : COMPUTER SCIENCE<br>Email : <a href="mailto:songsakchn@au.edu">songsakchn@au.edu</a><br>Room name : VMS 0608<br>Phone : 027232380 |
| Student do not have advisor | F0201-02     | Student do not have advisor and advisor information do not show | Login with ID : 5610190 | Advisor's name : N/A<br>Faculty : N/A<br>Major : N/A                                                                                                                                                                  |



|  |  |  |  |                                               |
|--|--|--|--|-----------------------------------------------|
|  |  |  |  | Email : N/A<br>Room name : N/A<br>Phone : N/A |
|--|--|--|--|-----------------------------------------------|

- Feature : Advising information
- Feature ID : F0202

### Test Procedure

1. open menu sidebar
2. click advising information on menu sidebar

| Test Case Scenario                                         | Test Case ID | Short Description                                                                                                                        | Data                    | Expect Result                         |
|------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------|
| Student have advising information                          | F0202-01     | Show advising information list of student that have agree with advisor include courseid and course name and show pre-registration status | Login with ID : 5615959 | Pre-registration 3/2016 : ALLOWED     |
| Student met advisor but does not have advising information | F0202-02     | Student do not have advising information and can pre-registration.                                                                       | 5613032                 | Pre-registration 3/2016 : ALLOWED     |
| Student did not meet advisor                               | F0202-03     | Student do not have advising information and show pre-registration status                                                                | 5610190                 | Pre-registration 3/2016 : NOT ALLOWED |

- Academic
  - Feature : Grade List by Semester

- Feature ID : F0301

## Test Procedure

1. open menu sidebar
2. click “Grade List”
3. see grade by semester

| Test Case Scenario                      | Test Case ID | Short Description                                                                                                          | Data                                                                     | Expect Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| By semester : show complete grade list  | F0301-01     | Gradelist page show course detail separate in each semester and show current grade, number of credit and accumulated score | Login with ID : 5615959<br>Check only year 2016 with all semesters (1-3) | <ul style="list-style-type: none"> <li>→ SEMESTER 2/2016 0.00 0 CREDIT               <ul style="list-style-type: none"> <li>◆ BG14038 PROFESSIONAL ETHICS SEMINAR VIII WP</li> <li>◆ LA4606 INTELLECTUAL PROPERTY LAW WP</li> <li>◆ PC4314 COSTUME/POP AND MAKE-UP SELECTION WP</li> </ul> </li> <li>→ SEMESTER 1/2016 3.21 18 CREDITS               <ul style="list-style-type: none"> <li>◆ BG14037 PROFESSIONAL ETHICS SEMESTER VII S</li> <li>◆ MT4201 SOCIAL INTERESTS, GOVERNMENT POLICIES A</li> <li>◆ SC3251 ALGORITHM DESIGN C+</li> </ul> </li> <li>--&gt; SEMESTER 3/2015 3.00 3 CREDITS               <ul style="list-style-type: none"> <li>◆ MGT2900 PRINCIPLES OF MANAGEMENT B</li> </ul> </li> </ul> |
| By semester :Student have not got grade | F0301-02     | Gradelist page show course detail separate in each semester and show                                                       | 6013633                                                                  | Nothing Subject to show                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|  |  |                                                                        |  |  |
|--|--|------------------------------------------------------------------------|--|--|
|  |  | current grade, number of credit and accumulated score by default value |  |  |
|--|--|------------------------------------------------------------------------|--|--|

- Feature : Grade List by Curriculum
- Feature ID : F0302

### Test Procedure

1. open menu sidebar
2. click “Grade List”
3. see grade by semester first
4. click “by curriculum” on top to see grade by curriculum

| Test Case Scenario                         | Test Case ID | Short Description                                                                                                                                                                                  | Data                                                             | Expect Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| By curriculum : show complete course group | F0302-01     | Curriculum page show course detail in course group in each faculty’s curriculum, grade with status course by color if it’s gray is do not regist, green is pass with grade and yellow is studying. | Login with ID : 5615959<br>Check only Group A.<br>General Course | A.General Education Courses 30 CREDITS<br>Language Courses 12/12 CREDITS<br><ul style="list-style-type: none"> <li>● BG1001 ENGLISH I B</li> </ul> Social Science Courses 6/6 CREDITS<br><ul style="list-style-type: none"> <li>● GE2202 ETHICS A</li> </ul> Humanities Courses 3/3 CREDITS<br><ul style="list-style-type: none"> <li>● BG2101 WORLD CIVILIZATION B</li> </ul> Science and Mathematics Courses 9/9 CREDITS<br><ul style="list-style-type: none"> <li>● DA1121 BASIC MATHEMATIC AND STATISTICS A</li> </ul> |
| By curriculum : student do not have        | F0302-02     | Curriculum page show course detail in course group in each faculty’s                                                                                                                               | 6013633                                                          | A.General Education Courses 30 CREDITS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|                        |  |                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|--|-----------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| curriculum for student |  | curriculum by default constraint. |  | Language Courses 0/12 CREDITS <ul style="list-style-type: none"> <li>● BG1001 ENGLISH I</li> </ul> Social Science Courses 0/6 CREDITS <ul style="list-style-type: none"> <li>● GE2202 ETHICS</li> </ul> Humanities Courses 0/3 CREDITS <ul style="list-style-type: none"> <li>● BG2101 WORLD CIVILIZATION</li> </ul> Science and Mathematics Courses 0/9 CREDITS <ul style="list-style-type: none"> <li>● DA1121 BASIC MATHEMATICS AND STATISTIC....</li> </ul> |
|------------------------|--|-----------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- Feature : Grade Summary
- Feature ID : F0303

### Test Procedure

1. open menu sidebar
2. click “Grade summary”
3. click back button to back to menu sidebar

| Test Case Scenario                           | Test Case ID | Short Description                                                                | Data                    | Expect Result                                                                                                                                                                                                                                                                    |
|----------------------------------------------|--------------|----------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Show grade summary with complete information | F0303-01     | Show all complete courses separate by grade A, A-, B+, B, B-, C+, C, C-, D and F | Login with ID : 5615959 | GRADE A 9 COURSES <ul style="list-style-type: none"> <li>● MT4201 SOCIAL INTERESTS, GOVERNMENT POLICIES A</li> <li>● GE2202 ETHICS A</li> <li>● DA2102 CALCULUS II A</li> </ul> GRADE A- 5 COURSES <ul style="list-style-type: none"> <li>● SC4418 SELECTED TOPICS IN</li> </ul> |

|                            |          |                                 |         |                                                                                                                                                   |
|----------------------------|----------|---------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |          |                                 |         | DATA WAREHOUSING A-<br><ul style="list-style-type: none"> <li>• SC3211 OPERATING SYSTEMS A-</li> <li>• SC3220 COMPUTER ARCHITECTURE A-</li> </ul> |
| Student does not get grade | F0303-02 | Show default grade summary page | 6013633 | GRADE A 0 COURSE<br>GRADE A- 0 COURSE<br>GRADE B+ 0 COURSE<br>GRADE B 0 COURSE<br>GRADE B- 0 COURSE<br>GRADE C+ 0 COURSE                          |

- Student Schedule

- Feature : Class Schedule
- Feature ID : F0401

### Test Procedure

1. open menu sidebar
2. click class schedule

| Test Case Scenario                   | Test Case ID | Short Description                                                                                                                                                                | Data                     | Expect Result                                                                                                                                                                                                     |
|--------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Show class schedule by complete data | F0401-01     | Show schedule, semester, and course detail list. Course detail have course ID, course name, section, weekday, room name, starttime and endtime in each session and lecturer name | Log-in with ID : 5615959 | SEMESTER 2/2016<br><ul style="list-style-type: none"> <li>• BG14038 541 PROFESSIONAL ETHICS SEMINAR..             <ul style="list-style-type: none"> <li>○ WEDNESDAY(WEDNESDAY(29/03/17 ))</li> </ul> </li> </ul> |

|                                       |                 |                                                                                                                           |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       |                 |                                                                                                                           |         | <ul style="list-style-type: none"> <li>○ 09.00 - 12.00</li> <li>○ SR416</li> <li>○ A.Ratsame</li> <li>● LA4606 541 INTELLECTUAL PROPERTY LAW <ul style="list-style-type: none"> <li>○ FRIDAY</li> <li>○ 09.00 - 11.00</li> <li>○ SR201</li> <li>○ NATTAPONG SUWAN-IN</li> </ul> </li> <li>● PC4314 741 COSTUME/POP AND MAKE-UP... <ul style="list-style-type: none"> <li>○ THURSDAY</li> <li>○ 12.00 - 15.00</li> <li>○ CA0610</li> <li>○ NATTAPORN THAPPARAT</li> </ul> </li> </ul>                                                                                                                                                        |
| Do not have class in current semester | <b>F0401-02</b> | Do not get registration course. Show schedule without session line color and do not have courses list in current semester | 5610190 | SEMESTER 1/2016 <ul style="list-style-type: none"> <li>● BG14037 417 PROFESSIONAL ETHICS SEMINAR VII <ul style="list-style-type: none"> <li>○ TUESDAY(25/10/2016)</li> <li>○ 09.00 - 12.00</li> <li>○ SR416</li> <li>○ A.Ratsame</li> </ul> </li> <li>● BG14038 404 PROFESSIONAL ETHICS SEMINAR VIII <ul style="list-style-type: none"> <li>○ FRIDAY(28/10/2016)</li> <li>○ 09.00 - 12.00</li> <li>○ SR416</li> <li>○ A.Ratsame</li> </ul> </li> <li>● JA0721 473 JAPANESE FOR BEGINNERS I <ul style="list-style-type: none"> <li>○ WEDNESDAY</li> <li>○ 09.00 - 12.00</li> <li>○ SM334</li> <li>○ SENKICHI KANAZAWA</li> </ul> </li> </ul> |

- Feature : Examination: Midterm
- Feature ID : F0402

### Test Procedure

1. open menu sidebar
2. click Examination

| Test Case Scenario                        | Test Case ID | Short Description                                                                                                                              | Data                    | Expect Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Show midterm exam date with complete data | F0402-01     | Get complete data of midterm exam. Show calendar with midterm date mark and midterm course list. Midterm course show date, time and room name. | Login with ID : 5615959 | <ul style="list-style-type: none"> <li>● 09 THURSDAY               <ul style="list-style-type: none"> <li>○ 12.00 14.00</li> <li>○ COSTUME/POP AND MAKE-UP SELECTION...</li> <li>○ N/A</li> </ul> </li> <li>● 10 FRIDAY               <ul style="list-style-type: none"> <li>○ 15.00 17.00</li> <li>○ WEB APPLICATION DEVELOPMENT</li> <li>○ N/A</li> </ul> </li> <li>● 13 MONDAY               <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> <li>○ SELECTED TOPIC</li> </ul> </li> </ul> |
| Do not have midterm date exam             | F0402-02     | Show calendar and do not have data of course midterm exam information from server.                                                             | 5610190                 | <ul style="list-style-type: none"> <li>● 04 TUESDAY               <ul style="list-style-type: none"> <li>○ 12.00 14.00</li> <li>○ JAPANESE FOR BEGINNERS I</li> <li>○ N/A</li> </ul> </li> <li>● 05 WEDNESDAY               <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> </ul> </li> </ul>                                                                                                                                                                                               |

|  |  |  |  |                                                                                                                                                                                                                                            |
|--|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  |  | <ul style="list-style-type: none"> <li>○ FINANCIAL PLANNING AND ANALYSIS</li> <li>○ N/A</li> <li>● 06 THURSDAY <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> <li>○ SOCIAL INTERESTS, GOVERNMENT POL....</li> </ul> </li> </ul> |
|--|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- Feature : Examination: Final
- Feature ID : F0403

### Test Procedure

1. open menu sidebar
2. click Examination
3. show midterm first
4. click “Final” on top to see final date
5. click back button

| Test Case Scenario                      | Test Case ID | Short Description                                                                                                                         | Data                    | Expect Result                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Show final exam date with complete data | F0403-01     | Get complete data of final exam. Show calendar with finale date mark and final course list. Midterm course show date, time and room name. | Login with ID : 5615959 | <ul style="list-style-type: none"> <li>● 22 MONDAY <ul style="list-style-type: none"> <li>○ 09.00 12.00</li> <li>○ COSTUME/POP AND MAKE-UP SELECTION...</li> <li>○ N/A</li> </ul> </li> <li>● 23 TUESDAY <ul style="list-style-type: none"> <li>○ 13.00 15.00</li> <li>○ WEB APPLICATION DEVELOPMENT</li> </ul> </li> </ul> |



|                             |                 |                                                                                    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------|-----------------|------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             |                 |                                                                                    |         | <ul style="list-style-type: none"> <li>○ N/A</li> <li>● 24 WEDNESDAY <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> <li>○ SELECTED TOPIC</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                 |
| Do not have final date exam | <b>F0403-02</b> | Show calendar and do not have data of course's final exam information from server. | 5610190 | <ul style="list-style-type: none"> <li>● 08 THURSDAY <ul style="list-style-type: none"> <li>○ 09.00 12.00</li> <li>○ JAPANESE FOR BEGINNERS I</li> <li>○ N/A</li> </ul> </li> <li>● 09 FRIDAY <ul style="list-style-type: none"> <li>○ 09.00 12.00</li> <li>○ FINANCIAL PLANNING AND ANALYSIS</li> <li>○ N/A</li> </ul> </li> <li>● 13 TUESDAY <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> <li>○ SOCIAL INTERESTS, GOVERNMENT POL....</li> </ul> </li> </ul> |

- Pre-registration
  - Feature : Pre-registration Result
  - Feature ID : F0501

### **Test Procedure**

1. open menu sidebar
2. click Preregistration Result

| <b>Test Case Scenario</b> | <b>Test Case ID</b> | <b>Short Description</b> | <b>Data</b> | <b>Expect Result</b> |
|---------------------------|---------------------|--------------------------|-------------|----------------------|
|---------------------------|---------------------|--------------------------|-------------|----------------------|

|                                                |          |                                                                                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------|----------|---------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                |          |                                                                                                   |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Get pre-registration result with complete data | F0501-01 | Show pre-registration results detail is semester, schedule, pre-registration courses with detail. | 6013633 | <ul style="list-style-type: none"> <li>○ DA1121541</li> <li>○ <b>[PAID] BASIC MATHEMATICS AND STATISTICS</b></li> <li>○ MONDAY 09:00 - 12:00 <b>VMS0403</b><br/><b>TITIDA NOCHAI</b></li> <li>○ IEA0060406</li> <li>○ <b>[PAID] INTENSIVE ENGLISH (60 HRS.)</b></li> <li>○ MONDAY 09:00 - 12:00 <b>VMS0404</b></li> <li>○ AC0001404</li> <li>○ <b>[PAID] AU CARE</b></li> <li>○ SUNDAY 00:00 - 00:00 <b>N/A</b></li> <li>○ AO1111111</li> <li>○ <b>[PAID] AU ORIENTATION</b></li> <li>○ SUNDAY 00:00 - 00:00 <b>N/A</b></li> </ul> |
| Did not get pre-registration result.           | F0501-02 | Student did not pre-registration.                                                                 | 5615959 | Show empty calendar.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

- Feature : Plan List
- Feature ID : F0502

| Test Case Scenario | Test Case ID | Short Description | Data | Expect Result |
|--------------------|--------------|-------------------|------|---------------|
|--------------------|--------------|-------------------|------|---------------|

|                                      |          |                                                                                                 |              |                                                                                                                                                                                                                                                                         |
|--------------------------------------|----------|-------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Open plan list page with exist plans | F0502-01 | Show the list that have created and each plan show the schedule and list of course in that plan | Id : 5615959 | Plan A 9 Credits<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL OF FINANCIAL ACCOUNTING<br>ACT3626<br>HOTEL ACCOUNTING<br>GE2101<br>WORLD CIVILIZATION<br><br>Plan B 6 Credits<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL OF FINANCIAL ACCOUNTING<br>GE2101<br>WORLD CIVILIZATION |
| Open plan list page without plans    | F0502-02 | Show the default of plan list page                                                              | id : 5610190 | Empty plan                                                                                                                                                                                                                                                              |

- Feature : Create Plan
- Feature ID : F0503

| Test Case Scenario            | Test Case ID | Short Description                                                  | Data         | Expect Result                                              |
|-------------------------------|--------------|--------------------------------------------------------------------|--------------|------------------------------------------------------------|
| Create plan in student's time | F0503-01     | Create new plan to registration in student's id time schedule.     | id : 5615959 | New Plan page open                                         |
| Create plan not in time       | F0503-02     | Create new plan to registration not in student's id time schedule. | Id: 5610190  | Alert message to not allow plan and back to plan list page |

- Feature : Add course
- Feature ID : F0504

## Test Procedure

1. Click “Add Course”
2. Search course by course name or course code
3. Click course
4. Select section
5. Click “Confirm”

| Test Case Scenario                 | Test Case ID | Short Description                                                            | Data                                                                                                        | Expect Result                                                                                                                                                                           |
|------------------------------------|--------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Add course 1 section/ 1 course     | F0504-01     | Add one section per one course in plan by search course name or course code. | Course code:<br>ACT1601<br>Section: 401                                                                     | Course show on new plan page, credit and course number increase.<br>1 Course 3 Credits<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL...<br>1 section selected                                 |
| Add course many sections/ 1 course | F0504-02     | Add 3 sections per one course in plan by search course name or course code.  | Course code:<br>GE2101<br>Section: 401, 403, 404                                                            | Course show on new plan page, credit and course number increase.<br>1 Course 3 Credits<br>GE2101<br>WORLD CIVILIZATION<br>3 section selected                                            |
| Add many courses                   | F0504-03     | Add 3 courses in plan by search course name or course code.                  | Course code:<br>GE2101<br>Section: 401, 403, 404<br>Course code:<br>ACT1601<br>Section: 401<br>Course code: | Course show on new plan page, credit and course number increase.<br>3 Course 9 Credits<br>GE2101<br>WORLD CIVILIZATION<br>3 section selected<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL... |

|                                           |                 |                                           |                        |                                                                                   |
|-------------------------------------------|-----------------|-------------------------------------------|------------------------|-----------------------------------------------------------------------------------|
|                                           |                 |                                           | DA1121<br>Section: 541 | 1 section selected<br>DA1121<br>BASIC MATHEMATICS AND STA..<br>1 section selected |
| Add course that not open in this semester | <b>F0504-04</b> | Add course that not open in this semester | Course code:<br>DA2103 | Alert "Data not found" and back to plan list.                                     |

- Feature : Show Schedules
- Feature ID : F0505

### Test Procedure

1. After select courses and section
2. Click "Show Schedule"

| Test Case Scenario | Test Case ID    | Short Description                                          | Data                                                                                           | Expect Result                                                                                          |
|--------------------|-----------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Plan is correct    | <b>F0505-01</b> | Show schedule form course and section that student select. | Course code:<br>GE2101<br>Section: 401,<br>403, 404<br>Course code:<br>ACT1601<br>Section: 401 | Show 2 Plans<br>Schedule 1<br>ACT1601 401<br>GE2101 401<br><br>Schedule 2<br>ACT1601 401<br>GE2101 404 |
| No Course          | <b>F0505-02</b> | Students do not selected courses                           |                                                                                                | Alert message to not allow plan and back to plan list page                                             |
| Credit over        | <b>F0505-03</b> | Selected course more than limited credit. In semester 3,   | Course code:<br>GE2101                                                                         | Alert message to told credit is over, and still show new plan page.                                    |

|                    |          |                                          |                                                                                                                                                           |                                                                               |
|--------------------|----------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                    |          | students have 10 credit limited.         | Section: 401,<br>403, 404<br>Course code:<br>ACT1601<br>Section: 401<br>Course code:<br>ACT3626<br>Section: 401<br>Course code:<br>AD3106<br>Section: 741 |                                                                               |
| Plan time conflict | F0505-04 | Time conflict so schedule cannot create. | Course code:<br>GE2101<br>Section: 401<br>Course code:<br>ACT1601<br>Section: 401<br>Course code:<br>ACT3626<br>Section: 401                              | Alert message to show time conflict in schedule and still show new plan page. |

- Feature : Delete course
- Feature ID : F0506

### Test Procedure

1. After selected course
2. Click “Bin icon” to delete course
3. Click “Yes” in message box

| Test Case Scenario | Test Case ID | Short Description | Data | Expect Result |
|--------------------|--------------|-------------------|------|---------------|
|--------------------|--------------|-------------------|------|---------------|

|               |          |                             |                   |                                                                                    |
|---------------|----------|-----------------------------|-------------------|------------------------------------------------------------------------------------|
|               |          |                             |                   |                                                                                    |
| Delete course | F0506-01 | Delete course that selected | Delete<br>ACT1601 | 2 COURSES 6 CREDITS<br>GE2101<br>WORLD CIVILIZATION<br>ACT3626<br>HOTEL ACCOUNTING |

- Feature : Save Plan
- Feature ID : F0507

### Test Procedure

1. After create plan and click show schedule
2. Click “Heart icon” to save plan

| Test Case Scenario | Test Case ID | Short Description             | Data                                                                                                                                 | Expect Result                                                                                                                                             |
|--------------------|--------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Save plan          | F0507-01     | Save plan by click heart icon | Course code:<br>GE2101<br>Section: 401,<br>404<br>Course code:<br>ACT1601<br>Section: 401<br>Course code:<br>ACT3626<br>Section: 401 | Schedule 1<br>ACT1601 401<br>ACT3626 401<br>GE2101 404<br>Grey heart icon change to Red heart icon,<br>and when back to plan list this plan will<br>show. |

- Class Search
  - Feature : Change semester

- Feature ID : F0601

### Test Procedure

1. open menu sidebar
2. click Class search
3. select year and semester

| Test Case Scenario | Test Case ID | Short Description                    | Data   | Expected Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|--------------|--------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Previous semester  | F0601-01     | Change semester to previous semester | 2/2016 | ACT1600<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING<br>ACT1603<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING II<br>ACT2620<br>FUNDAMENTALS OF MANAGERIAL ACCOUNTING<br>ACT3602<br>INTERMEDIATE ACCOUNTING I<br>ACT3603<br>INTERMEDIATE ACCOUNTING II<br>ACT3608<br>FINANCIAL REPORT AND FINANCIAL STATEMENT ANALYSIS<br>ACT3614<br>TAXATION I<br>ACT3615<br>TAXATION II<br>ACT3622<br>COST ACCOUNTING I<br>ACT3623<br>COST ACCOUNTING II |



|                  |          |                                     |        |                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------|----------|-------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current semester | F0601-02 | Change semester to current semester | 3/2016 | AC0001<br>AU CARE<br>ACT1600<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING<br>ACT2620<br>FUNDAMENTALS OF MANAGERIAL ACCOUNTING<br>ACT3626<br>HOTEL ACCOUNTING<br>ACT4609<br>ACCOUNTING THEORY<br>ACT4611<br>SEMINAR IN ACCOUNTING<br>ACT4647<br>ACCOUNTING SOFTWARE PACKAGE<br>ACT4649<br>ACCOUNTING INTERNSHIP<br>AD3106<br>ART DIRECTION |
|------------------|----------|-------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- Feature : Class search
- Feature ID : F0602

### **Test Procedure**

1. open menu sidebar
2. click Class search
3. input course name or course title in search text field
4. select course
5. select section to see information
6. click back button

| Test Case Scenario | Test Case ID | Short Description           | Data     | Expect Result                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|--------------|-----------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Search course 1    | F0602-01     | Search by alphabet          | a        | Semester 3/2016 <ul style="list-style-type: none"> <li>● AC0001               <ul style="list-style-type: none"> <li>○ AU CARE</li> </ul> </li> <li>● ACT1600               <ul style="list-style-type: none"> <li>○ FUNDAMENTALS OF FINANCIAL ACCOUNTING I</li> </ul> </li> <li>● ACT1601               <ul style="list-style-type: none"> <li>○ FUNDAMENTALS OF FINANCIAL ACCOUNTING II</li> </ul> </li> </ul> |
| Search course 2    | F0602-02     | Search by course ID(number) | 12       | Semester 3/2016 <ul style="list-style-type: none"> <li>● AD3112               <ul style="list-style-type: none"> <li>○ BRAND COMMUNICATION</li> </ul> </li> <li>● BG0012               <ul style="list-style-type: none"> <li>○ INTENSIVE MATHEMATICS(60 Hrs.)</li> </ul> </li> <li>● BG1204               <ul style="list-style-type: none"> <li>○ CALCULUS I</li> </ul> </li> </ul>                            |
| Search course 3    | F0602-3      | Search by course ID         | bg1205   | Semester 3/2016 <ul style="list-style-type: none"> <li>● BG1205               <ul style="list-style-type: none"> <li>○ CALCULUS II</li> </ul> </li> </ul>                                                                                                                                                                                                                                                        |
| Search course 4    | F0602-4      | Search by course name       | calculus | Semester 3/2016 <ul style="list-style-type: none"> <li>● BG1204               <ul style="list-style-type: none"> <li>○ CALCULUS I</li> </ul> </li> <li>● BG1205               <ul style="list-style-type: none"> <li>○ CALCULUS II</li> </ul> </li> <li>● BGG1204               <ul style="list-style-type: none"> <li>○ CALCULUS I (Register in 1/2017)</li> </ul> </li> </ul>                                  |
| Search course 5    | F0601-06     | Search by space             | “ ”<br>_ | Semester 3/2016 <ul style="list-style-type: none"> <li>● AC0001</li> </ul>                                                                                                                                                                                                                                                                                                                                       |

|  |  |  |  |                                                                                                                                                                                                                                                                                            |
|--|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  |  | <ul style="list-style-type: none"> <li>○ AU CARE</li> <li>● ACT1600 <ul style="list-style-type: none"> <li>○ FUNDAMENTALS OF FINANCIAL ACCOUNTING I</li> </ul> </li> <li>● ACT1601 <ul style="list-style-type: none"> <li>○ FUNDAMENTALS OF FINANCIAL ACCOUNTING II</li> </ul> </li> </ul> |
|--|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- App Setting
  - Feature : Reset password
  - Feature ID : F0701

### Test Procedure

1. open menu sidebar
2. click Reset Password
3. input information in textfield
4. click submit button

| Test Case Scenario         | Test Case ID | Short Description                                 | Data                                                                                                                                                                                                             | Expect Result                                     |
|----------------------------|--------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Complete to reset password | F0701-01     | Input information to update and set new password. | Recover e-mail : <a href="mailto:kornkamol33@gmail.com">kornkamol33@gmail.com</a><br>Phone : 0962059390<br>Enter current password : 11009026/06/1995<br>New password : 5615959<br>Confirm new password : 5615959 | Show message that show success to reset password. |

|                            |          |                                   |                                                                                                                                                                                                                  |                     |
|----------------------------|----------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Wrong current password     | F0701-02 | Input wrong information to update | Recover e-mail : <a href="mailto:kornkamol33@gmail.com">kornkamol33@gmail.com</a><br>Phone : 0962059390<br>Enter current password : 26<br>New password : 5615959<br>Confirm new password : 5615959               | Show error message. |
| Wrong confirm new password | F0701-02 | Input wrong information to update | Recover e-mail : <a href="mailto:kornkamol33@gmail.com">kornkamol33@gmail.com</a><br>Phone : 0962059390<br>Enter current password : 11009026/06/1995<br>New password : 5615959<br>Confirm new password : 5615999 | Show error message. |

- Feature : Rate us
- Feature ID : F0702

### Test Procedure

1. open menu sidebar
2. click Rate us

| Test Case Scenario   | Test Case ID | Short Description                                                                  | Data | Expect Result                    |
|----------------------|--------------|------------------------------------------------------------------------------------|------|----------------------------------|
| Click Rate us button | F0702-01     | When click button it will link to google play store page of "AU SPARK" application | -    | Manual Testing → Play store open |

- Feature : Log-out
- Feature ID : F0703

## Test Procedure

1. open menu sidebar
2. click Log-out

| Test Case Scenario   | Test Case ID | Short Description                                  | Data | Expect Result                        |
|----------------------|--------------|----------------------------------------------------|------|--------------------------------------|
| Click Log-out button | F0703-01     | Log-out AU SPARK system and login page have appear | -    | Manual Testing → back to log-in page |

- Other

- Feature : Calendar
- Feature ID : F0801

## Test Procedure

1. open menu sidebar
2. click AU Calendar
3. click more icon in each month to see date information

| Test Case Scenario                   | Test Case ID | Short Description                                                         | Data           | Expect Result                                                                                   |
|--------------------------------------|--------------|---------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------|
| Show special date with complete data | F0801-01     | Show the mark of in calendar in each month and list of special's date and | Log-in by ID : | May 2017 <ul style="list-style-type: none"><li>● 04 Last day to withdraw with 'W' via</li></ul> |

|                          |                 |                                                                        |         |                                                                                                                                                                                                                                                                       |
|--------------------------|-----------------|------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                 | information below calendar and click<br>“...” button to show date list | 5615959 | internet <ul style="list-style-type: none"> <li>● 08 Retrieve and download registered student namelists via internet for eGrading</li> <li>● 10 Wisakha Bhucha Day(Holiday - no classes)</li> <li>● 13 Last day of classes</li> <li>● 15 Final Examination</li> </ul> |
| Do not have special date | <b>F0801-02</b> | Show the default calendar                                              | -       | Nothing Show                                                                                                                                                                                                                                                          |

# Feature Pass/Fail Criteria

- Student profile
  - Feature : Log-in
  - Feature ID : F0101
    - F0101-01 : Valid username and invalid password
    - F0101-02 : Invalid username and valid password
    - F0101-03 : Login success
    - F0101-04 : Empty username and password
    - F0101-05 : Empty password
    - F0101-06 : Empty username

| Test Case ID | Data                                                | Expect Result | Actual Result |
|--------------|-----------------------------------------------------|---------------|---------------|
| F0101-01     | Username : 5615959<br>Password : 1100               | True          | True          |
| F0101-02     | Username : 561595<br>Password :<br>11009026/06/1995 | True          | True          |
| F0101-03     | Username : 5615959<br>Password :                    | False<br>True | False<br>True |

|          |                                              |      |      |
|----------|----------------------------------------------|------|------|
|          | 11009026/06/1995                             |      |      |
| F0101-04 | Username :<br>Password :                     | True | True |
| F0101-05 | Username : 5615959<br>Password :             | True | True |
| F0101-06 | Username :<br>Password :<br>11009026/06/1995 | True | True |

- Feature : Connect with Facebook
- Feature ID : F0102
  - F0102-01 Connect facebook log-in
  - F0102-02 Cannot connect facebook log-in

| Test Case ID | Data               | Expect Result                                                    | Actual Result                                            |
|--------------|--------------------|------------------------------------------------------------------|----------------------------------------------------------|
| F0102-01     | Username : 5615959 | Facebook button change to be<br>Connected as Kornakamol Kiatopas | Button change to be "Connected as<br>Kornkamol Kiatopas" |
| F0102-02     | Username : 5615959 | Nothing happen                                                   |                                                          |

- Feature : Disconnect with Facebook
- Feature ID : F0103
  - F0103-01 Disconnect facebook log-in
  - F0103-02 Cannot disconnect facebook log-in



| Test Case ID | Data               | Expect Result                                                            | Actual Result                                           |
|--------------|--------------------|--------------------------------------------------------------------------|---------------------------------------------------------|
| F0103-01     | Username : 5615959 | String of "Connect as Kornkamol Kiatopas" change to be "Connect" button. | Label "Connect as Kornkamol Kiatopas" to connect button |
| F0103-02     | Username : 5615959 | String still be "Connected as Kornkamol Kiatopas".                       |                                                         |

- Advisor

- Feature : Advisor information
- Feature ID : F0201
  - F0201-01 Student have advisor
  - F0201-02 Student do not have advisor

| Test Case ID | Data               | Expect Result                                                                                                                                                                                                         | Actual Result                                                                                                                                                                                                         |
|--------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F0201-01     | Username : 5615959 | Advisor's name : SONGSAK CHANNARUKUL<br>Faculty : SCIENCE AND TECHNOLOGY<br>Major : COMPUTER SCIENCE<br>Email : <a href="mailto:songsakchn@au.edu">songsakchn@au.edu</a><br>Room name : VMS 0608<br>Phone : 027232380 | Advisor's name : SONGSAK CHANNARUKUL<br>Faculty : SCIENCE AND TECHNOLOGY<br>Major : COMPUTER SCIENCE<br>Email : <a href="mailto:songsakchn@au.edu">songsakchn@au.edu</a><br>Room name : VMS 0608<br>Phone : 027232380 |
| F0201-02     | Username : 5610190 | Advisor's name : N/A<br>Faculty : N/A<br>Major : N/A<br>Email : N/A<br>Room name : N/A<br>Phone : N/A                                                                                                                 | Advisor's name : N/A<br>Faculty : N/A<br>Major : N/A<br>Email : N/A<br>Room name : N/A<br>Phone : N/A                                                                                                                 |

- Feature : Advising information
- Feature ID : F0202
  - F0202-01 Student have advising information
  - F0202-02 Student met advisor but does not have advising information
  - F0202-03 Student did not meet advisor

| Test Case ID | Data               | Expect Result                                                            | Actual Result                         |
|--------------|--------------------|--------------------------------------------------------------------------|---------------------------------------|
| F0202-01     | Username : 5615959 | Pre-registration 3/2016 : ALLOWED<br>LA4606<br>INTELLECTUAL PROPERTY LAW |                                       |
| F0202-02     | Username : 5613032 | Pre-registration 3/2016 : ALLOWED                                        |                                       |
| F0202-03     | Username : 5610190 | Pre-registration 3/2016 : NOT ALLOWED                                    | Pre-registration 3/2016 : NOT ALLOWED |

- Academic

- Feature : Grade List by Semester
- Feature ID : F0301
  - F0301-01 By semester : show complete grade list
  - F0301-02 By semester : show incomplete grade list\*\*

| Test Case ID | Data               | Expect Result                                                | Actual Result                                                                       |
|--------------|--------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------|
| F0301-01     | Username : 5615959 | → SEMESTER 2/2016 0.00 0<br>CREDIT<br>◆ BG14038 PROFESSIONAL | → SEMESTER 2/2016 0.00 0 CREDIT<br>◆ BG14038 PROFESSIONAL<br>ETHICS SEMINAR VIII WP |

|          |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                    | <p>ETHICS SEMINAR VIII WP</p> <ul style="list-style-type: none"> <li>◆ LA4606 INTELLECTUAL PROPERTY LAW WP</li> <li>◆ PC4314 COSTUME/POP AND MAKE-UP SELECTION WP</li> </ul> <p>→ SEMESTER 1/2016 3.21 18 CREDITS</p> <ul style="list-style-type: none"> <li>◆ BG14037 PROFESSIONAL ETHICS SEMESTER VII S</li> <li>◆ MT4201 SOCIAL INTERESTS, GOVERNMENT POLICIES A</li> <li>◆ SC3251 ALGORITHM DESIGN C+</li> </ul> <p>→ SEMESTER 3/2015 3.00 3 CREDITS</p> <ul style="list-style-type: none"> <li>◆ MGT2900 PRINCIPLES OF MANAGEMENT B</li> </ul> | <ul style="list-style-type: none"> <li>◆ LA4606 INTELLECTUAL PROPERTY LAW WP</li> <li>◆ PC4314 COSTUME/POP AND MAKE-UP SELECTION WP</li> </ul> <p>→ SEMESTER 1/2016 3.21 18 CREDITS</p> <ul style="list-style-type: none"> <li>◆ BG14037 PROFESSIONAL ETHICS SEMESTER VII S</li> <li>◆ MT4201 SOCIAL INTERESTS, GOVERNMENT POLICIES A</li> <li>◆ SC3251 ALGORITHM DESIGN C+</li> </ul> <p>→ SEMESTER 3/2015 3.00 3 CREDITS</p> <ul style="list-style-type: none"> <li>◆ MGT2900 PRINCIPLES OF MANAGEMENT B</li> </ul> |
| F0301-02 | Username : 6013633 | Data not found                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Nothing Subject to show                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

○ Feature : Grade List by Curriculum

○ Feature ID : F0302

■ F0302-01 By curriculum : show complete course group

■ F0302-02 By curriculum : Show in complete course group\*\*

| Test Case ID | Data               | Expect Result                                                                                                                                                                                        | Actual Result                                                                                                                                                                                        |
|--------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F0302-01     | Username : 5615959 | <p>A.General Education Courses 30 CREDITS</p> <p>Language Courses 12/12 CREDITS</p> <ul style="list-style-type: none"> <li>● BG1001 ENGLISH I B</li> </ul> <p>Social Science Courses 6/6 CREDITS</p> | <p>A.General Education Courses 30 CREDITS</p> <p>Language Courses 12/12 CREDITS</p> <ul style="list-style-type: none"> <li>● BG1001 ENGLISH I B</li> </ul> <p>Social Science Courses 6/6 CREDITS</p> |

|          |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                    | <ul style="list-style-type: none"> <li>• GE2202 ETHICS A</li> </ul> Humanities Courses 3/3 CREDITS <ul style="list-style-type: none"> <li>• BG2101 WORLD CIVILIZATION B</li> </ul> Science and Mathematics Courses 9/9 CREDITS <ul style="list-style-type: none"> <li>• DA1121 BASIC MATHEMATIC AND STATISTICS A</li> </ul>                                                                                                                                                                                | <ul style="list-style-type: none"> <li>• GE2202 ETHICS A</li> </ul> Humanities Courses 3/3 CREDITS <ul style="list-style-type: none"> <li>• BG2101 WORLD CIVILIZATION B</li> </ul> Science and Mathematics Courses 9/9 CREDITS <ul style="list-style-type: none"> <li>• DA1121 BASIC MATHEMATIC AND STATISTICS A</li> </ul>                                                                                                                                                                                |
| F0302-02 | Username : 6013633 | A.General Education Courses 30 CREDITS<br>Language Courses 0/12 CREDITS <ul style="list-style-type: none"> <li>• BG1001 ENGLISH I</li> </ul> Social Science Courses 0/6 CREDITS <ul style="list-style-type: none"> <li>• GE2202 ETHICS</li> </ul> Humanities Courses 0/3 CREDITS <ul style="list-style-type: none"> <li>• BG2101 WORLD CIVILIZATION</li> </ul> Science and Mathematics Courses 0/9 CREDITS <ul style="list-style-type: none"> <li>• DA1121 BASIC MATHEMATICS AND STATISTIC.....</li> </ul> | A.General Education Courses 30 CREDITS<br>Language Courses 0/12 CREDITS <ul style="list-style-type: none"> <li>• BG1001 ENGLISH I</li> </ul> Social Science Courses 0/6 CREDITS <ul style="list-style-type: none"> <li>• GE2202 ETHICS</li> </ul> Humanities Courses 0/3 CREDITS <ul style="list-style-type: none"> <li>• BG2101 WORLD CIVILIZATION</li> </ul> Science and Mathematics Courses 0/9 CREDITS <ul style="list-style-type: none"> <li>• DA1121 BASIC MATHEMATICS AND STATISTIC.....</li> </ul> |

- Feature : Grade Summary
- Feature ID : F0302
  - F0303-01 Show grade summary with complete information
  - F0303-02 Show grade summary with incomplete information

| Test Case ID | Data               | Expect Result                                                                                                                                                                   | Actual Result                                                                                                                                                                   |
|--------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F0303-01     | Username : 5615959 | GRADE A 9 COURSES <ul style="list-style-type: none"> <li>• MT4201 SOCIAL INTERESTS, GOVERNMENT POLICIES A</li> <li>• GE2202 ETHICS A</li> <li>• DA2102 CALCULUS II A</li> </ul> | GRADE A 9 COURSES <ul style="list-style-type: none"> <li>• MT4201 SOCIAL INTERESTS, GOVERNMENT POLICIES A</li> <li>• GE2202 ETHICS A</li> <li>• DA2102 CALCULUS II A</li> </ul> |

|          |                    |                                                                                                                                                                                                        |                                                                                                                                                                                                        |
|----------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                    | GRADE A- 5 COURSES <ul style="list-style-type: none"> <li>● SC4418 SELECTED TOPICS IN DATA WAREHOUSING A-</li> <li>● SC3211 OPERATING SYSTEMS A-</li> <li>● SC3220 COMPUTER ARCHITECTURE A-</li> </ul> | GRADE A- 5 COURSES <ul style="list-style-type: none"> <li>● SC4418 SELECTED TOPICS IN DATA WAREHOUSING A-</li> <li>● SC3211 OPERATING SYSTEMS A-</li> <li>● SC3220 COMPUTER ARCHITECTURE A-</li> </ul> |
| F0303-02 | Username : 6013633 | GRADE A 0 COURSE<br>GRADE A- 0 COURSE<br>GRADE B+ 0 COURSE<br>GRADE B 0 COURSE<br>GRADE B- 0 COURSE<br>GRADE C+ 0 COURSE                                                                               | GRADE A 0 COURSE<br>GRADE A- 0 COURSE<br>GRADE B+ 0 COURSE<br>GRADE B 0 COURSE<br>GRADE B- 0 COURSE<br>GRADE C+ 0 COURSE                                                                               |

- Student Schedule

- Feature : Class Schedule

- Feature ID : F0401

- F0401-01 Show class schedule by complete data
- F0401-02 Do not have class in current semester

| Test Case ID | Data               | Expect Result                                                                                                                                                                                                                                                                                                    | Actual Result                                                                                                                                                                                                                                                                                                    |
|--------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F0401-01     | Username : 5615959 | SEMESTER 2/2016 <ul style="list-style-type: none"> <li>● BG14038 541 PROFESSIONAL ETHICS SEMINAR..             <ul style="list-style-type: none"> <li>○ WEDNESDAY(WEDNESDAY(29/03/17 ))</li> <li>○ 09.00 - 12.00</li> <li>○ SR416</li> <li>○ A.Ratsame</li> </ul> </li> <li>● LA4606 541 INTELLECTUAL</li> </ul> | SEMESTER 2/2016 <ul style="list-style-type: none"> <li>● BG14038 541 PROFESSIONAL ETHICS SEMINAR..             <ul style="list-style-type: none"> <li>○ WEDNESDAY(WEDNESDAY(29/03/17 ))</li> <li>○ 09.00 - 12.00</li> <li>○ SR416</li> <li>○ A.Ratsame</li> </ul> </li> <li>● LA4606 541 INTELLECTUAL</li> </ul> |

|          |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                    | PROPERTY LAW <ul style="list-style-type: none"> <li>○ FRIDAY</li> <li>○ 09.00 - 11.00</li> <li>○ SR201</li> <li>○ NATTAPONG SUWAN-IN</li> <li>● PC4314 741 COSTUME/POP AND MAKE-UP...             <ul style="list-style-type: none"> <li>○ THURSDAY</li> <li>○ 12.00 - 15.00</li> <li>○ CA0610</li> <li>○ NATTAPORN THAPPARAT</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                            | PROPERTY LAW <ul style="list-style-type: none"> <li>○ FRIDAY</li> <li>○ 09.00 - 11.00</li> <li>○ SR201</li> <li>○ NATTAPONG SUWAN-IN</li> <li>● PC4314 741 COSTUME/POP AND MAKE-UP...             <ul style="list-style-type: none"> <li>○ THURSDAY</li> <li>○ 12.00 - 15.00</li> <li>○ CA0610</li> <li>○ NATTAPORN THAPPARAT</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                            |
| F0401-02 | Username : 5610190 | SEMESTER 1/2016 <ul style="list-style-type: none"> <li>● BG14037 417 PROFESSIONAL ETHICS SEMINAR VII             <ul style="list-style-type: none"> <li>○ TUESDAY(25/10/2016)</li> <li>○ 09.00 - 12.00</li> <li>○ SR416</li> <li>○ A.Ratsame</li> </ul> </li> <li>● BG14038 404 PROFESSIONAL ETHICS SEMINAR VIII             <ul style="list-style-type: none"> <li>○ FRIDAY(28/10/2016)</li> <li>○ 09.00 - 12.00</li> <li>○ SR416</li> <li>○ A.Ratsame</li> </ul> </li> <li>● JA0721 473 JAPANESE FOR BEGINNERS I             <ul style="list-style-type: none"> <li>○ WEDNESDAY</li> <li>○ 09.00 - 12.00</li> <li>○ SM334</li> <li>○ SENKICHI KANAZAWA</li> </ul> </li> </ul> | SEMESTER 1/2016 <ul style="list-style-type: none"> <li>● BG14037 417 PROFESSIONAL ETHICS SEMINAR VII             <ul style="list-style-type: none"> <li>○ TUESDAY(25/10/2016)</li> <li>○ 09.00 - 12.00</li> <li>○ SR416</li> <li>○ A.Ratsame</li> </ul> </li> <li>● BG14038 404 PROFESSIONAL ETHICS SEMINAR VIII             <ul style="list-style-type: none"> <li>○ FRIDAY(28/10/2016)</li> <li>○ 09.00 - 12.00</li> <li>○ SR416</li> <li>○ A.Ratsame</li> </ul> </li> <li>● JA0721 473 JAPANESE FOR BEGINNERS I             <ul style="list-style-type: none"> <li>○ WEDNESDAY</li> <li>○ 09.00 - 12.00</li> <li>○ SM334</li> <li>○ SENKICHI KANAZAWA</li> </ul> </li> </ul> |

○ Feature : Examination : Midterm

○ Feature ID : F0402

- F0402-01 Show midterm exam date with complete data
- F0402-02 Show midterm exam date with incomplete data

| Test Case ID | Data               | Expect Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Actual Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F0402-01     | Username : 5615959 | <ul style="list-style-type: none"> <li>● 09 THURSDAY               <ul style="list-style-type: none"> <li>○ 12.00 14.00</li> <li>○ COSTUME/POP AND MAKE-UP SELECTION...</li> <li>○ N/A</li> </ul> </li> <li>● 10 FRIDAY               <ul style="list-style-type: none"> <li>○ 15.00 17.00</li> <li>○ WEB APPLICATION DEVELOPMENT</li> <li>○ N/A</li> </ul> </li> <li>● 13 MONDAY               <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> <li>○ SELECTED TOPIC</li> </ul> </li> </ul>                   | <ul style="list-style-type: none"> <li>● 09 THURSDAY               <ul style="list-style-type: none"> <li>○ 12.00 14.00</li> <li>○ COSTUME/POP AND MAKE-UP SELECTION...</li> <li>○ N/A</li> </ul> </li> <li>● 10 FRIDAY               <ul style="list-style-type: none"> <li>○ 15.00 17.00</li> <li>○ WEB APPLICATION DEVELOPMENT</li> <li>○ N/A</li> </ul> </li> <li>● 13 MONDAY               <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> <li>○ SELECTED TOPIC</li> </ul> </li> </ul> |
| F0402-02     | Username : 5610190 | <ul style="list-style-type: none"> <li>● 04 TUESDAY               <ul style="list-style-type: none"> <li>○ 12.00 14.00</li> <li>○ JAPANESE FOR BEGINNERS I</li> <li>○ N/A</li> </ul> </li> <li>● 05 WEDNESDAY               <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> <li>○ FINANCIAL PLANNING AND ANALYSIS</li> <li>○ N/A</li> </ul> </li> <li>● 06 THURSDAY               <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> <li>○ SOCIAL INTERESTS, GOVERNMENT POL....</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>● 04 TUESDAY               <ul style="list-style-type: none"> <li>○ 12:00 - 14:00</li> <li>○ JAPANESE FOR BEGINNERS I</li> </ul> </li> <li>● 05 WEDNESDAY               <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> <li>○ FINANCIAL PLANNING AND ANALYSIS</li> </ul> </li> <li>● 06 THURSDAY               <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> <li>○ SOCIAL INTEREST, GOVERNMENT POLICIES A...</li> </ul> </li> </ul>      |

○ Feature : Examination : Final

○ Feature ID : F0403

- F0403-01 Show final exam date with complete data
- F0403-02 Show final exam date with incomplete data

○

| Test Case ID | Data               | Expect Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Actual Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F0403-01     | Username : 561959  | <ul style="list-style-type: none"> <li>● 22 MONDAY               <ul style="list-style-type: none"> <li>○ 09.00 12.00</li> <li>○ COSTUME/POP AND MAKE-UP SELECTION...</li> <li>○ N/A</li> </ul> </li> <li>● 23 TUESDAY               <ul style="list-style-type: none"> <li>○ 13.00 15.00</li> <li>○ WEB APPLICATION DEVELOPMENT</li> <li>○ N/A</li> </ul> </li> <li>● 24 WEDNESDAY               <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> <li>○ SELECTED TOPIC</li> </ul> </li> </ul>              | <ul style="list-style-type: none"> <li>● 22 MONDAY               <ul style="list-style-type: none"> <li>○ 09.00 12.00</li> <li>○ COSTUME/POP AND MAKE-UP SELECTION...</li> <li>○ N/A</li> </ul> </li> <li>● 23 TUESDAY               <ul style="list-style-type: none"> <li>○ 13.00 15.00</li> <li>○ WEB APPLICATION DEVELOPMENT</li> <li>○ N/A</li> </ul> </li> <li>● 24 WEDNESDAY               <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> <li>○ SELECTED TOPIC</li> </ul> </li> </ul>              |
| F0403-02     | Username : 5610190 | <ul style="list-style-type: none"> <li>● 08 THURSDAY               <ul style="list-style-type: none"> <li>○ 09.00 12.00</li> <li>○ JAPANESE FOR BEGINNERS I</li> <li>○ N/A</li> </ul> </li> <li>● 09 FRIDAY               <ul style="list-style-type: none"> <li>○ 09.00 12.00</li> <li>○ FINANCIAL PLANNING AND ANALYSIS</li> <li>○ N/A</li> </ul> </li> <li>● 13 TUESDAY               <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> <li>○ SOCIAL INTERESTS, GOVERNMENT POL....</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>● 08 THURSDAY               <ul style="list-style-type: none"> <li>○ 09.00 12.00</li> <li>○ JAPANESE FOR BEGINNERS I</li> <li>○ N/A</li> </ul> </li> <li>● 09 FRIDAY               <ul style="list-style-type: none"> <li>○ 09.00 12.00</li> <li>○ FINANCIAL PLANNING AND ANALYSIS</li> <li>○ N/A</li> </ul> </li> <li>● 13 TUESDAY               <ul style="list-style-type: none"> <li>○ 09.00 11.00</li> <li>○ SOCIAL INTERESTS, GOVERNMENT POL....</li> </ul> </li> </ul> |



- Pre-registration

- Feature : Pre-registration Result

- Feature ID : F0501

- F0501-01 Get pre-registration result with complete data

- F0501-02 Did not get pre-registration result

| Test Case ID | Data               | Expect Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Actual Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F0501-01     | Username : 6013633 | <ul style="list-style-type: none"> <li>○ DA1121541</li> <li>○ <b>[PAID] BASIC MATHEMATICS AND STATISTICS</b></li> <li>○ MONDAY 09:00 - 12:00 <b>VMS0403</b><br/><b>TITIDA NOCHAI</b></li> <li>○ IEA0060406</li> <li>○ <b>[PAID] INTENSIVE ENGLISH (60 HRS.)</b></li> <li>○ MONDAY 09:00 - 12:00 <b>VMS0404</b></li> <li>○ AC0001404</li> <li>○ <b>[PAID] AU CARE</b></li> <li>○ SUNDAY 00:00 - 00:00 <b>N/A</b></li> <li>○ AO1111111</li> <li>○ <b>[PAID] AU ORIENTATION</b></li> <li>○ SUNDAY 00:00 - 00:00 <b>N/A</b></li> </ul> | <ul style="list-style-type: none"> <li>○ DA1121541</li> <li>○ <b>[PAID] BASIC MATHEMATICS AND STATISTICS</b></li> <li>○ MONDAY 09:00 - 12:00 <b>VMS0403</b><br/><b>TITIDA NOCHAI</b></li> <li>○ IEA0060406</li> <li>○ <b>[PAID] INTENSIVE ENGLISH (60 HRS.)</b></li> <li>○ MONDAY 09:00 - 12:00 <b>VMS0404</b></li> <li>○ AC0001404</li> <li>○ <b>[PAID] AU CARE</b></li> <li>○ SUNDAY 00:00 - 00:00 <b>N/A</b></li> <li>○ AO1111111</li> <li>○ <b>[PAID] AU ORIENTATION</b></li> <li>○ SUNDAY 00:00 -</li> </ul> |

|          |                    |         |           |
|----------|--------------------|---------|-----------|
|          |                    |         | 00:00 N/A |
| F0501-02 | Username : 5615959 | Nothing | Nothing   |

- Feature : Plan List
- Feature ID : F0502

| Test Case ID | Data         | Expect Result                                                                                                                                                                                                                                                                 | Actual Result                                                                                                                                                                                                                                                                 |
|--------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F0502-01     | Id : 5615959 | Plan A 9 Credits<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL OF<br>FINANCIAL ACCOUNTING<br>ACT3626<br>HOTEL ACCOUNTING<br>GE2101<br>WORLD CIVILIZATION<br><br>Plan B 6 Credits<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL OF<br>FINANCIAL ACCOUNTING<br>GE2101<br>WORLD CIVILIZATION | Plan A 9 Credits<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL OF<br>FINANCIAL ACCOUNTING<br>ACT3626<br>HOTEL ACCOUNTING<br>GE2101<br>WORLD CIVILIZATION<br><br>Plan B 6 Credits<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL OF<br>FINANCIAL ACCOUNTING<br>GE2101<br>WORLD CIVILIZATION |
| F0502-02     | id : 5610190 | Empty plan                                                                                                                                                                                                                                                                    | Empty plan                                                                                                                                                                                                                                                                    |

- Feature : Create Plan
- Feature ID : F0503

| Test Case ID | Data         | Expect Result      | Actual Result      |
|--------------|--------------|--------------------|--------------------|
| F0503-01     | id : 5615959 | New Plan page open | Show new plan page |

|          |             |                                                            |                                                                              |
|----------|-------------|------------------------------------------------------------|------------------------------------------------------------------------------|
| F0503-02 | Id: 5610190 | Alert message to not allow plan and back to plan list page | Alert "You are not allowed to plan in this time", and back to plan list page |
|----------|-------------|------------------------------------------------------------|------------------------------------------------------------------------------|

- Feature : Add course
- Feature ID : F0504

### Test Procedure

6. Click "Add Course"
7. Search course by course name or course code
8. Click course
9. Select section
10. Click "Confirm"

| Test Case ID | Data                                                                     | Expect Result                                                                                                                                           | Actual Result                                                                       |
|--------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| F0504-01     | Course code:<br>ACT1601<br>Section: 401                                  | Course show on new plan page, credit and course number increase.<br>1 Course 3 Credits<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL...<br>1 section selected | 1 Course 3 Credits<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL...<br>1 section selected |
| F0504-02     | Course code: GE2101<br>Section: 401, 403, 404                            | Course show on new plan page, credit and course number increase.<br>1 Course 3 Credits<br>GE2101<br>WORLD CIVILIZATION<br>3 section selected            | 1 Course 3 Credits<br>GE2101<br>WORLD CIVILIZATION<br>3 section selected            |
| F0504-03     | Course code: GE2101<br>Section: 401, 403, 404<br>Course code:<br>ACT1601 | Course show on new plan page, credit and course number increase.<br>3 Course 9 Credits<br>GE2101                                                        | 3 Course 9 Credits<br>GE2101<br>WORLD CIVILIZATION<br>3 section selected            |

|          |                                                      |                                                                                                                                                                          |                                                                                                                              |
|----------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|          | Section: 401<br>Course code: DA11121<br>Section: 541 | WORLD CIVILIZATION<br>3 section selected<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL...<br>1 section selected<br>DA1121<br>BASIC MATHEMATICS AND STA..<br>1 section selected | ACT1601<br>FUNDAMENTALS OF FINANCIAL...<br>1 section selected<br>DA1121<br>BASIC MATHEMATICS AND STA..<br>1 section selected |
| F0504-04 | Course code: DA2103                                  | Alert "Data not found" and back to plan list.                                                                                                                            | Alert "Data not found" and back to plan list.                                                                                |

- Feature : Show Schedules
- Feature ID : F0505

### Test Procedure

3. After select courses and section
4. Click "Show Schedule"

| Test Case ID | Data                                                                                  | Expect Result                                                                                      | Actual Result                                                                      |
|--------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| F0505-01     | Course code: GE2101<br>Section: 401, 403, 404<br>Course code: ACT1601<br>Section: 401 | Show 2 Plans<br>Schedule 1<br>ACT1601 401<br>GE2101 401<br>Schedule 2<br>ACT1601 401<br>GE2101 404 | Schedule 1<br>ACT1601 401<br>GE2101 401<br>Schedule 2<br>ACT1601 401<br>GE2101 404 |
| F0505-02     |                                                                                       | Alert message to not allow plan and back to plan list page                                         | Alert "No course added yet" and still show new plan page                           |

|          |                                                                                                                                                                      |                                                                               |                                                                                                      |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| F0505-03 | Course code: GE2101<br>Section: 401, 403, 404<br>Course code: ACT1601<br>Section: 401<br>Course code: ACT3626<br>Section: 401<br>Course code: AD3106<br>Section: 741 | Alert message to told credit is over, and still show new plan page.           | Alert "Your credit is limited at 10" and still show new plan page                                    |
| F0505-04 | Course code: GE2101<br>Section: 401<br>Course code: ACT1601<br>Section: 401<br>Course code: ACT3626<br>Section: 401                                                  | Alert message to show time conflict in schedule and still show new plan page. | Alert "Check following courses conflict ACT1601(401) and ACT3626(401)" and still show new plan page. |

- Feature : Delete course
- Feature ID : F0506

### Test Procedure

1. After selected course
2. Click "Bin icon" to delete course
3. Click "Yes" in message box

| Test Case ID | Data           | Expect Result                                                                      | Actual Result                                                                      |
|--------------|----------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| F0506-01     | Delete ACT1601 | 2 COURSES 6 CREDITS<br>GE2101<br>WORLD CIVILIZATION<br>ACT3626<br>HOTEL ACCOUNTING | 2 COURSES 6 CREDITS<br>GE2101<br>WORLD CIVILIZATION<br>ACT3626<br>HOTEL ACCOUNTING |

- Feature : Save Plan
- Feature ID : F0507

## Test Procedure

1. After create plan and click show schedule
2. Click “Heart icon” to save plan

| Test Case ID | Data                                                                                                                     | Expect Result                                                                                                                                       | Actual Result                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| F0507-01     | Course code: GE2101<br>Section: 401, 404<br>Course code: ACT1601<br>Section: 401<br>Course code: ACT3626<br>Section: 401 | Schedule 1<br>ACT1601 401<br>ACT3626 401<br>GE2101 404<br>Grey heart icon change to Red heart icon, and when back to plan list this plan will show. | Red heart icon<br>Schedule 1<br>ACT1601 401<br>ACT3626 401<br>GE2101 404 |

- Class Search

- Feature : Class search
- Feature ID : F0601
  - F0601-01 Change to Previous Semester
  - F0601-02 Change to Current Semester

| Test Case ID | Data                                     | Expect Result                                                                                                                                            | Actual Result                                                                                                                                            |
|--------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| F0601-01     | Username : 5615959<br>Search by : 2/2016 | ACT1600<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING<br>ACT1603<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING II | ACT1600<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING<br>ACT1603<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING II |

|          |                                          |                                                                                                                         |                                                                                                                         |
|----------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| F0601-02 | Username : 5615959<br>Search by : 3/2016 | AC0001<br>AU CARE<br>ACT1600<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING | AC0001<br>AU CARE<br>ACT1600<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING<br>ACT1601<br>FUNDAMENTALS OF FINANCIAL ACCOUNTING |
|----------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|

- Feature : Class search
- Feature ID : F0602
  - F0602-01 Search course 1
  - F0602-02 Search course 2
  - F0602-03 Search course 3
  - F0602-04 Search course 4
  - F0602-05 Serach course 5

| Test Case ID | Data                                 | Expect Result                                                                                                                                                                                                                                                                                                                                                          | Actual Result                                                                                                                                                                                                                                                                                                                                                          |
|--------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F0601-02     | Username : 5615959<br>Search by : a  | Semester 3/2016 <ul style="list-style-type: none"> <li>● AC0001 <ul style="list-style-type: none"> <li>○ AU CARE</li> </ul> </li> <li>● ACT1600 <ul style="list-style-type: none"> <li>○ FUNDAMENTALS OF FINANCIAL ACCOUNTING I</li> </ul> </li> <li>● ACT1601 <ul style="list-style-type: none"> <li>○ FUNDAMENTALS OF FINANCIAL ACCOUNTING II</li> </ul> </li> </ul> | Semester 3/2016 <ul style="list-style-type: none"> <li>● AC0001 <ul style="list-style-type: none"> <li>○ AU CARE</li> </ul> </li> <li>● ACT1600 <ul style="list-style-type: none"> <li>○ FUNDAMENTALS OF FINANCIAL ACCOUNTING I</li> </ul> </li> <li>● ACT1601 <ul style="list-style-type: none"> <li>○ FUNDAMENTALS OF FINANCIAL ACCOUNTING II</li> </ul> </li> </ul> |
| F0601-03     | Username : 5615959<br>Search by : 12 | Semester 3/2016 <ul style="list-style-type: none"> <li>● AD3112 <ul style="list-style-type: none"> <li>○ BRAND COMMUNICATION</li> </ul> </li> <li>● BG0012 <ul style="list-style-type: none"> <li>○ INTENSIVE MATHEMATICS(60 Hrs.)</li> </ul> </li> </ul>                                                                                                              | Semester 3/2016 <ul style="list-style-type: none"> <li>● AD3112 <ul style="list-style-type: none"> <li>○ BRAND COMMUNICATION</li> </ul> </li> <li>● BG0012 <ul style="list-style-type: none"> <li>○ INTENSIVE MATHEMATICS(60 Hrs.)</li> </ul> </li> </ul>                                                                                                              |

|          |                                            |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                        |
|----------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                                            | <ul style="list-style-type: none"> <li>● BG1204 <ul style="list-style-type: none"> <li>○ CALCULUS I</li> </ul> </li> </ul>                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>● BG1204 <ul style="list-style-type: none"> <li>○ CALCULUS I</li> </ul> </li> </ul>                                                                                                                                                                                                                                             |
| F0601-04 | Username : 5615959<br>Search by : bg1205   | Semester 3/2016 <ul style="list-style-type: none"> <li>● BG1205 <ul style="list-style-type: none"> <li>○ CALCULUS II</li> </ul> </li> </ul>                                                                                                                                                                                                                            | Semester 3/2016 <ul style="list-style-type: none"> <li>● BG1205 <ul style="list-style-type: none"> <li>○ CALCULUS II</li> </ul> </li> </ul>                                                                                                                                                                                                                            |
| F0601-05 | Username : 5615959<br>Search by : calculus | Semester 3/2016 <ul style="list-style-type: none"> <li>● BG1204 <ul style="list-style-type: none"> <li>○ CALCULUS I</li> </ul> </li> <li>● BG1205 <ul style="list-style-type: none"> <li>○ CALCULUS II</li> </ul> </li> <li>● BGG1204 <ul style="list-style-type: none"> <li>○ CALCULUS I (Register in 1/2017)</li> </ul> </li> </ul>                                  | Semester 3/2016 <ul style="list-style-type: none"> <li>● BG1204 <ul style="list-style-type: none"> <li>○ CALCULUS I</li> </ul> </li> <li>● BG1205 <ul style="list-style-type: none"> <li>○ CALCULUS II</li> </ul> </li> <li>● BGG1204 <ul style="list-style-type: none"> <li>○ CALCULUS I (Register in 1/2017)</li> </ul> </li> </ul>                                  |
| F0601-06 | Username : 5615959<br>Search by : _        | Semester 3/2016 <ul style="list-style-type: none"> <li>● AC0001 <ul style="list-style-type: none"> <li>○ AU CARE</li> </ul> </li> <li>● ACT1600 <ul style="list-style-type: none"> <li>○ FUNDAMENTALS OF FINANCIAL ACCOUNTING I</li> </ul> </li> <li>● ACT1601 <ul style="list-style-type: none"> <li>○ FUNDAMENTALS OF FINANCIAL ACCOUNTING II</li> </ul> </li> </ul> | Semester 3/2016 <ul style="list-style-type: none"> <li>● AC0001 <ul style="list-style-type: none"> <li>○ AU CARE</li> </ul> </li> <li>● ACT1600 <ul style="list-style-type: none"> <li>○ FUNDAMENTALS OF FINANCIAL ACCOUNTING I</li> </ul> </li> <li>● ACT1601 <ul style="list-style-type: none"> <li>○ FUNDAMENTALS OF FINANCIAL ACCOUNTING II</li> </ul> </li> </ul> |

- App Setting

- Feature : Reset password
- Feature ID : F0701
  - F0701-01 Complete to reset
  - F0701-02 Wrong current password
  - F0701-03 Wrong confirm new password



| Test Case ID | Data                                                                                                                                                                                                                                            | Expect Result   | Actual Result                        |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------|
| F0701-01     | Username : 5615959<br>Recover e-mail :<br><a href="mailto:kornkamol33@gmail.com">kornkamol33@gmail.com</a><br>Phone : 0962059390<br>Enter current password :<br>11009026/06/1995<br>New password : 5615959<br>Confirm new password :<br>5615959 | Success message | Message "Information Update"         |
| F0701-02     | Username : 5615959<br>Recover e-mail :<br><a href="mailto:kornkamol33@gmail.com">kornkamol33@gmail.com</a><br>Phone : 0962059390<br>Enter current password : 26<br>New password : 5615959<br>Confirm new password :<br>5615959                  | Error message   | Message "Incorrect entered password" |
| F0701-03     | Username : 5615959<br>Recover e-mail :<br><a href="mailto:kornkamol33@gmail.com">kornkamol33@gmail.com</a><br>Phone : 0962059390<br>Enter current password :<br>11009026/06/1995<br>New password : 5615959<br>Confirm new password :<br>5615999 | Error message   | Message "Password not match"         |

- Feature : Rate us

- Feature ID : F0702
  - F0702-01 Click rate us button

| Test Case ID | Data                  | Expect Result   | Actual Result        |
|--------------|-----------------------|-----------------|----------------------|
| F0702-01     | Username :<br>5615959 | Play store open | AU Spark has stopped |

- Feature : Log-out
- Feature ID : F0703
  - F0703-01 Click Log-out button

| Test Case ID | Data                  | Expect Result    | Actual Result         |
|--------------|-----------------------|------------------|-----------------------|
| F0703-01     | Username :<br>5615959 | Log-in page open | Change to Log-in page |

- Other
  - Feature : Calendar
  - Feature ID : F0801
    - F0801-01 Show special date with complete data
    - F0801-02 Month has not special date

| Test Case ID | Data | Expect Result | Actual Result |
|--------------|------|---------------|---------------|
|--------------|------|---------------|---------------|

|          |                       |                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                |
|----------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F0801-01 | Username :<br>5615959 | May 2017 <ul style="list-style-type: none"> <li>● 04 Last day to withdraw with 'W' via internet</li> <li>● 08 Retrieve and download registered student namelists via internet for eGrading</li> <li>● 10 Wisakha Bhucha Day(Holiday - no classes)</li> <li>● 13 Last day of classes</li> <li>● 15 Final Examination</li> </ul> | May 2017 <ul style="list-style-type: none"> <li>● 04 Last day to withdraw with 'W' via internet</li> <li>● 08 Retrieve and download registered student namelists via internet for eGrading</li> <li>● 10 Wisakha Bhucha Day(Holiday - no classes)</li> <li>● 13 Last day of classes</li> <li>● 15 Final Examination</li> </ul> |
| F0801-02 | Username :<br>5615959 | Nothing Show                                                                                                                                                                                                                                                                                                                   | Nothing show                                                                                                                                                                                                                                                                                                                   |