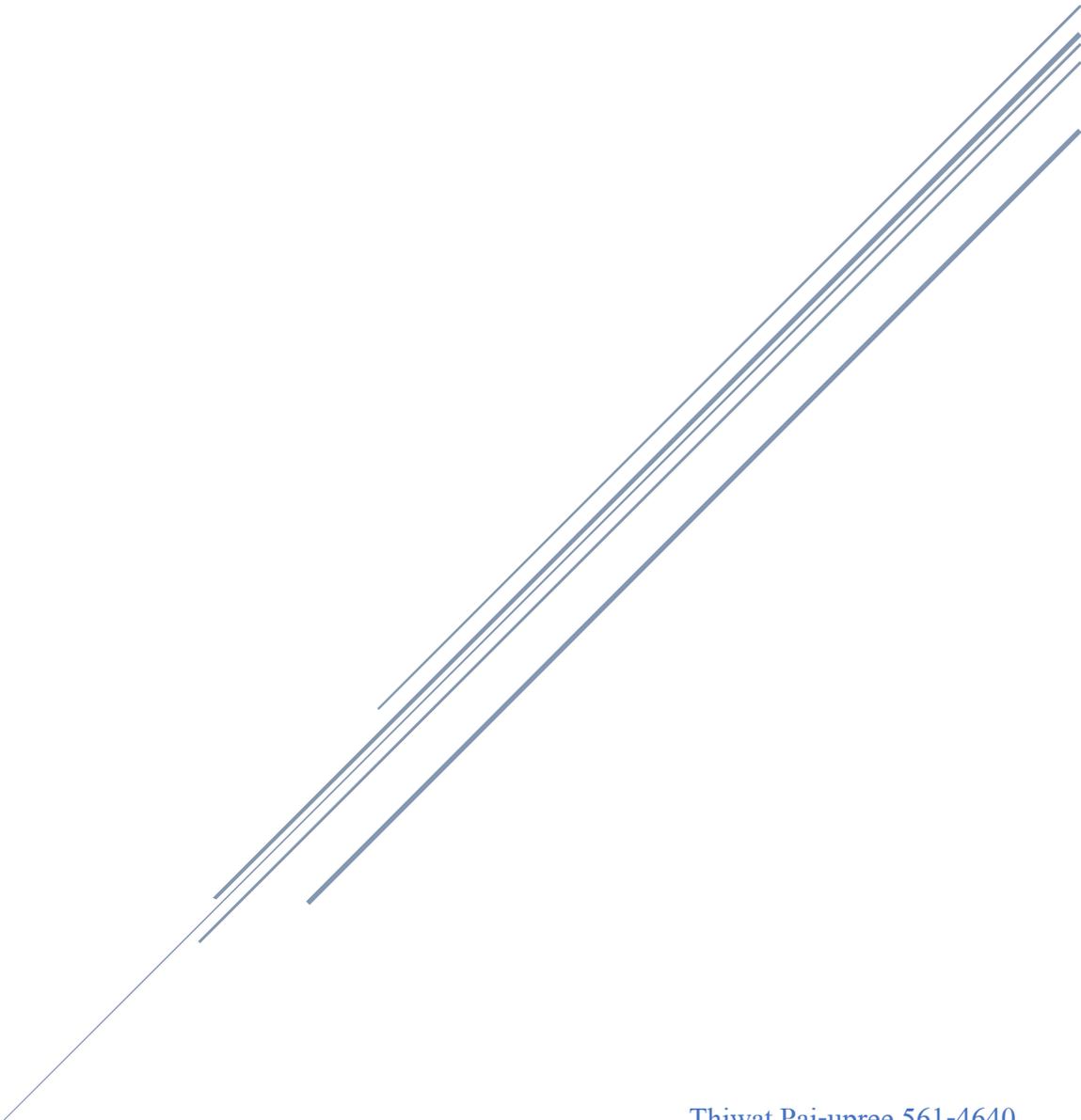


# TEST PLAN

AUSPARK



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# 1 INTRODUCTION

This report is shown plan include scope, approach, resources, and schedule of all testing activities to testing "AU SPARK". The plan shows testing items, testing functions, tester, schedule, resources and risks for complete the plan.

## 2 TEST STRATEGY

### 2.1 Scope of testing

#### 2.1.1 Feature to be tested

All the feature of AUSPARK on the Android OS which were provided in the application.

Module Name	Applicable Roles	Description
Login	User	User: A user can log-in by using au id and passwords that register when admission to AU
Logout	User	User: user can logout from AUSPARK application.
Checking Advisor	User	User: A user can see their advisor information (building, Phone Number and e-mail).
Grade List	User	User - By Semester: User can see grade list of each semester that user took. Even it passes or not pass. User - By Curriculum: User can see grade list of each curriculum. Green check mark for passed class and yellow for learning this semester.
Grade Summary	User	User: User can see Number of grades type from A, A-, B+, B, B-, C+, C, C-, D, W, WP and S that user took. And user can see G.P.A. of each semester by bar graph. The graph show y-axis for G.P.A and x-axis for each year and semester.
Checking Class schedule	User	User: User can see class schedule of current semester.
Checking Examination date	User	User: User cans see both of Midterm and Final examination date of current semester.
Previous Semester	User	User: User can see all class schedules of each semester by list.

Search for class	User	User: User can search information of classes of given semester. It will update before start planning. User can search only current classes and last semester class.
Look AU calendar	User	User: User can see calendar of AU event. Green color for holyday, Gray color for generic special day and red color for examination week.
Reset Password	User	User: User can change password to new one
Connect to Facebook	User	User: user can connect AU account to the Facebook account to grab the pre-registration plan of his/her friends and use it for his/her own plan.
Pre-registration	User	User: user can use the plan in plan list for registration.
Modify pre-registration result	User	User: user can modify his/her pre-registration but it limited to only 3 times.
Create pre-registration plan	User	User: user can create a pre-registration plan from searching class which available in next semester or friend plan. And save it to plan list.
Modify pre-registration plan	User	User: user can modify a plan or delete the plan from plan list.

### 2.1.2 Feature not to be tested

These AU SPARK's features are not tested because they are not included in the software requirement, testing priority is low or the other reasons for each.

- Design, layout, hierarchy of pages and usability of User Interface.
  - We cannot test the design and layout of each page (e.g. position of button, font, colors) because it is up to the user to feel that it is convenient design.
- Hardware Interfaces
  - We cannot test hardware interfaces that include all of possibility that users' Screen size, android SDK version.
- Database logical
  - We cannot test effectiveness of database design, response and request formats. We will test functionality of applications but not database logic that change data in database.
- Application Security and performance
  - We will test functionality of application first. We cannot check performance in all possibility of usage environment that user use AU SPARK apps. However, performance report of tester will send too. Especially, it will send immediately, if performance hinders progress.

### 2.2 Testing type

- **System** test: testing a complete application whether each feature working correctly or not.

## 2.3 Test logistic

### 2.3.1 Who will test?

The tester should be the **tester** because of they know what should be the result from these functionalities.

### 2.3.2 When will test occur?

The test will begin when these conditions are met.

- Test specification is created.

- Test environment is built.

## 3 TEST OBJECTIVE

the test objectives are to **verify** the functionality of the AUSPARK application. The project will focus on the features that are provided in the application such as academic information about a student and schedule of each semester. To guarantee all these features are performed **correctly**.

## 4 TEST CRITERIA

### 4.1 Suspension criteria

If the test team report that there are **40%** of error, the testing will postpone until the developer team fixed all failed test cases.

### 4.2 Exit criteria

If the test team report that **all** of test cases are **pass**, the testing will stop.

## 5 RESOURCE PLANNING

### 5.1 Human resource

No.	Member	Task
1.	Tester	Implement the test cases and perform testing. Writing a test result report.

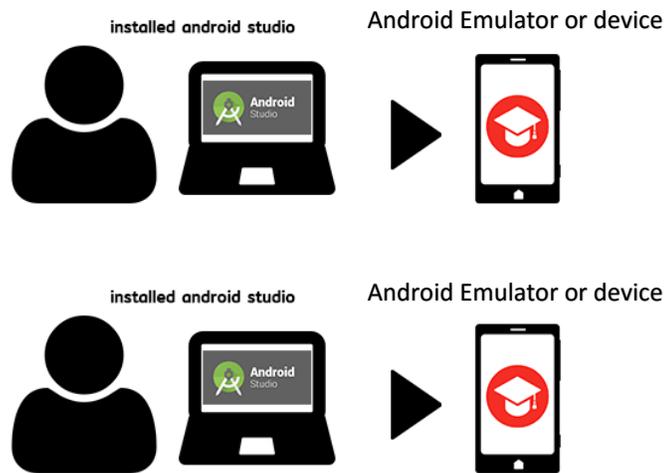
### 5.2 System resource

No.	Resources	Description
1.	Test tool	Android studio software with necessary library and Appium desktop application.
2.	Network	Setup a LAN Gigabit and 1 internet line with the speed at

		least 5 Mb/s (Speck of AU Wi-Fi that most users using.)
3.	Computer	At least 2 computers run Windows 10, Ram 2GB and at least 2 GB disk space. (Android Studio minimum requirement)

## 6 TEST ENVIRONMENT

Test environment should setup as figure below.



## 7 SCHEDULE & ESTIMATION

### 7.1 All project task and estimation

Task	Members	Estimate effort
Create the test specification	Tester	84 man-hour
Perform Test Execution	Tester	84 man-hour
Test Report	Tester	102 man-hour
Test Delivery		1 man-hour
Total		271 man-hour

### 7.2 Schedule to complete these tasks

ACTIVITY	START	END
Create test specification	26/04/2017	06/05/2017
Milestone 1	07/05/2017	

Perform Test Execution	07/05/2017	17/05/2017
Milestone 2	28/05/2017	
Test Report	18/05/2017	30/05/2017
Milestone 3	30/05/2017	
Test Delivery	31/05/2017	31/05/2017
Milestone 4	31/05/2017	

## 8 TEST DELIVERABLES

### 8.1 Before testing phase

- Test plans document.
- Test cases documents.
- Test Design specifications.

### 8.2 During the testing

- Progress report

### 8.3 After the testing cycles is over

- Test Results/reports
- Defect Report