

## INTRODUCTION

This program is the test program Au spark use of the scope, methods, functions and procedures exist in their own bugs. The plan identify the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the schedule required to complete testing, and the risks associated with the plan.

### 1 TEST STRATEGY

#### 1.1 Scope of Testing

##### 1.1.1 Feature to be tested

You need to define the operation of all the functions of au spark in the software specification.

Module Name	Description
Adviser's name	Displays the adviser's details for the user
Advising Information	Show the user the option to get after meet the adviser
Grade List	Show your current semester's course and grades
Grade Summary	Showing all the user's distribution of grades, and charted out and of credits
Class	Showing the schedule of current semester, the details including exam time with 1 <sup>st</sup> half and 2 <sup>nd</sup> half.
Examination	Summarize the current semester's schedule with 1 <sup>st</sup> half and 2 <sup>nd</sup> half.
Previous Semester	Show all the semesters you have learned and the teacher of the class, as well as the original examination time.
Plan List	After you made a plan for the next new semester and show it here
Class Search	Find the courses you need to know, including course Code and full name.
AU Calendar	Show the current half of the calendar, including holidays and exams day.
Reset Password	Modify your login password
Rate Us	Rate application on app store
Log Out	Log out the software Application.

### 1.1.2 Feature not to be tested

These features are not to be tested because they are not included in the software requirement specs

- User Interfaces
- Hardware Interfaces
- Software Interfaces
- Database logical
- Communications Interfaces
- Website Security and Performance

### 1.2 Test Type

In AU SPARK Project, there're 3 types of testing should be conducted.

- Integration Testing (Individual software modules are combined and tested as a group)
- System Testing: Conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements
- API testing: Test all the APIs create for the software under tested

### 1.2 Risk and Issues

Risk	Mitigation
Team members have less test experience	We do not have a enough experiences to test, we make a team, the group members help each other to improve the test at the same time, reduce the error.
Internet connection may lost during testing	Avoid to test during public internet connection

### 1.4 Test Logistics

#### 1.4.1 Who will test?

The program should be tested by someone who needs to use this program

#### 1.4.2 When will test occur?

The tester will start the test execution when all the following inputs are ready

- Software is available for testing
- Test Specification is created
- Test Environment is built
- Enough human resource for testing

## 2 TEST OBJECTIVE

The test objective is to verify the functionality of the AU SPARK Application, which focus to find the bugs in all parts of the application. The result of tests guarantee the application work correctly in real use.

## 3 TEST CRITERIA

### 3.1 Suspension Criteria

If the team members report that there are **40%** of test cases **failed**, suspend testing until the development team fixes all the failed cases.

### 3.2 Exit Criteria

Specifies the criteria that denote a successful completion of a test phase

- If find five or more bugs, it means that the test is successful.
- Run rate is going to be 100% unless a clear reason is given
- Pass rate is 80%

## 4 RESOURCE PLANNING

### 4.1 System Resource

- Network : Need internet connection in order to receive information on the application
- Test tool : Android Studio combination with Appium server to automated test
- Computer : at least 1 computer that can run android emulator & android studio

### 4.2 Human Resource

- Tester Team : people who start to plan test case until use software to test an application

## 5 TEST ENVIRONMENT

- 1 computer installed android studio
- Appium server which connect to android studio via server port
- AU Account

## 6 SCHEDULE & ESTIMATION

Task	Member	Estimated Effort
Create test case	Tester	30 min
Find bugs in the application	Tester	1 hour
Test report	Tester	1 hour
Total		2.30 hour

## 7 TEST DELIVERIABLES

Test deliverables are provided as below

### 7.1 before testing phase

- Test case
- Test design

### 7.2 during testing phrase

- Test tools
- Simulator
- Automated test
- log

### 7.3 after the testing cycles is over

- Test result
- Test report