

# Test Plan (Draft)

## 1. Project overview

The Intelligent Course Scheduler offers interactive degree planning and personalised course discovery to make picking courses simple and enjoyable for students. This project will enhance the former Intelligent Course Scheduler project in the Customization Interface area so that the ANU Student Services staff could maintain the data. This enhancement will consist of three sub-features namely CRUD (Create, Read, Update and Delete) functions, Duplicate feature, and Access Control function.

## 2. Test strategy

### 2.1 Scope of testing

Feature Name	Applicable Roles	Description
<b>New Account</b>	Staff Student	Users can create new accounts with passwords.
<b>Change Password</b>	Staff Student	Users can change passwords of only their account.
<b>Create degree requirements</b>	Staff	Staff could create new degree requirements for new semester or new major.
<b>Delete degree requirements</b>	Staff	Staff could delete previous degree requirements if they need.
<b>Update degree requirements</b>	Staff	Staff could update degree requirements if there are changes during the semester.
<b>Read degree requirements</b>	Staff	Staff could read previous degree requirements.
<b>Copy degree requirements</b>	Staff	Staff could copy degree requirements when they create another one.
<b>Access control</b>	Staff Students	Specific users could get access to specific information.

## 2.2 Testing Types

In this project, System Testing and API testing are mainly types of testing. System testing will be conducted on a complete, integrated system to evaluate the system's compliance with its requirement while API testing will test all the APIs create for the website under tested.

## 2.3 Risk& Issues

Risk	Solution
<b>Project members lack related knowledge for website testing</b>	Do more research from library and website to skill up
<b>The test manager has poor testing experience.</b>	Increase practical experience for test manager
<b>Users' testing may have few useful feedback</b>	Encourage more students and staffs to experience and design a survey
<b>System testing need more members to participate.</b>	Get more hands from other part of project

## 2.4 Test Logistics

### 2.4.1 Who will test?

ANU students and staff will be invited to become testers for this project.

### 2.4.2 When will test occur?

The tester will start the test execution when all the followings requirements are ready:

1. Website can be visited online.
2. Test specifications are finished.
3. Test Environment is built.
4. Enough human resource for testing

### 3. Test Objective

The test objectives are to verify the Functionality of Intelligent Course Scheduler website, the project should focus on testing the Staff operations such as creating, reading, updating and deleting the degree requirements etc. to guarantee all these operations can work normally in real environment.

### 4. Test Criteria

#### 4.1 Suspension Criteria

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

#### 4.2 Exit Criteria

The successful completion of the test should satisfy the following requirements:

1. Run rate is 100%.
2. Pass rate is 90%.

### 5. Resource

#### 5.1 Human Resource

Member	Tasks
<b>Test Manager</b>	Manage the whole test Define test direction Manage resources
<b>Tester</b>	Identify and do appropriate tests Log results and report feedback of experience
<b>Test administrator</b>	Build up test environments Support tester to do test execution
<b>Developer in test</b>	Check all testing process is meeting requirements implement the test cases and suite

## 5.2 System Resource

Resources	Descriptions
Server	Need a database server and web server for supporting the system
Network	Get an internet connect
Computer	Computer with Google Chrome browser

## 6.Test Environment

Test environment shows as figure 1 below:

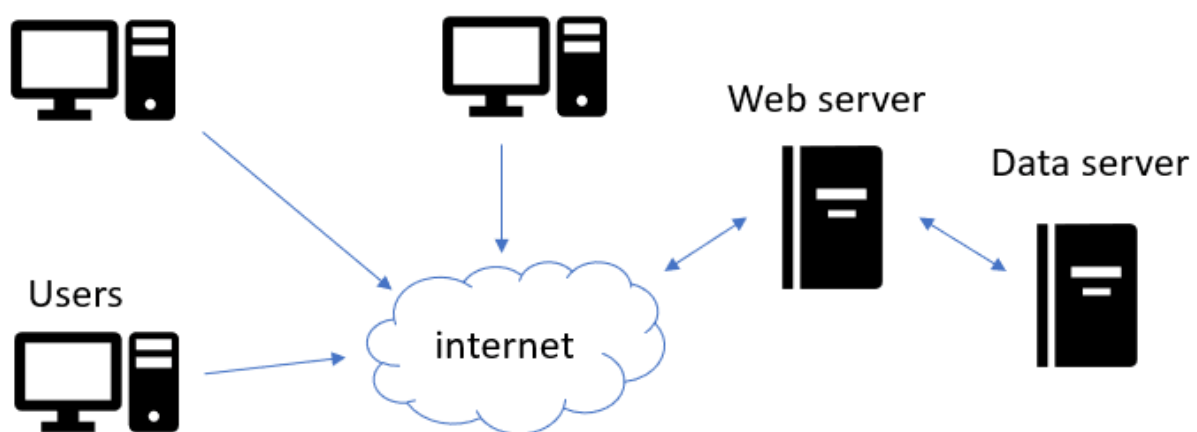


Figure 1

## 7. Test Deliverables

Test deliverables shows as following:

**Before the testing:**

Test plan documents

Test cases documents

Test design specifications.

**After the testing:**

Test data and test reports

Error logs and execution logs

Release notes

**8. Reference**

Guru99 (2019). TEST Management Tutorials: Complete Training Course. Retrieved from <https://www.guru99.com/test-management.html>

SFIA Foundation (2017). Levels of responsibility. Retrieved from <https://www.sfia-online.org/en/framework/sfia-7/busskills>