**TEST PLAN**

G3T8

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# 1 Introduction

The test plan includes testing that will be performed by our team members for the testing of the Merlion University Online Bidding project. It defines the overall testing requirements as set by our client.

## **Objectives**

The aim of the test plan is to:

1. Satisfy client functional requirement and web service requirement
2. Define the test scope and objectives
3. State the test plan flow diagram
4. System testing for the application
5. Meet the test schedule and milestones

## **Team Members**

|  |  |
| --- | --- |
| **Resource Name** | **Role** |
| Andrew | Programmer, Project Manager (Iteration 1) |
| Thao | Programmer, Project Manager (Iteration 2) |
| Jia Hui | Programmer, Project Manager (Iteration 3) |
| Jia Xin | Programmer, Project Manager (Iteration 4) |
| Zhen Hui | Programmer, Project Manager (Iteration 5) |

# Scope

This document includes the unit, integration, regression, UAT testing approach. The test cases scope will include the following:

1. Manual testing for all functional requirement listed in SMU Wiki Page

<https://wiki.smu.edu.sg/is212/Project#Functional_Requirements>

1. Web Service requirement testing (JSON) listed in the SMU Wiki Page

[https://wiki.smu.edu.sg/is212/Project#Functional\_Requirements](https://wiki.smu.edu.sg/is212/Project" \l "Functional_Requirements)

# Risks

## **Risks**

The following risks have been identified and the appropriate action identified to mitigate their impact on the project. The impact (or severity) of the risk is based on how the project would be affected if the risk was triggered. The trigger is what milestone or event would cause the risk to become an issue to be dealt with.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Risk** | **Consequences** | **Likelihood (H/M/L)** | **Impact**  **(H/M/L)** | **Level (Derived)** | **Mitigation Plan** |
| 1 | Team is  unfamiliar with  GitHub | Project delays due to the branching of master branch repository | High | High | A | Team to communicate and seek advice from professional by Week 5 (Iteration 1) |
| 2 | Conflicting commits | May cause files loss of other members | High | High | A | Communicate and schedule who to edit the documents first |

# Test Plan

Our team plan to do testing after finishing each functionality. With that, testing will be done in 4 iterations, having both manual and JSON test cases for each iteration.

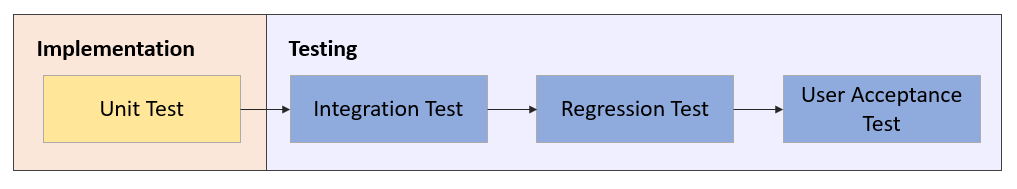
Testing planned for each iteration:

**Iteration 1:** Login & Boostrap

**Iteration 2:** Bid for a section, Drop Bid & Admin Clearing Logic Round 1

**Iteration 3:** Drop section, JSON (except bid status) & Admin Clearing Logic Round 2

**Iteration 4:** View Bidding Results & Bid Status



# Test Environment

Testing will be done using both the localhost (wamp) and AWS server and will be recorded down in testcases.xlsx

## **Testing Layout**

**Manual:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S/N | Functionality (as per requirements document) | Description | Test Inputs | Test Procedure | Expected Results | Actual Results | Pass/Fail |

**S/N:** Number of test case

**Functionality**: unique identifier for that functionality base on schedule and SMU Wikipedia

**Description:** Explanation of what the test case scenario is about

**Test Inputs**: Provide the tester with necessary inputs or data used for the test case scenario

**Test Procedure:** Provide the tester with steps to perform the test case

**Expected Results:** Correct output for the test case scenario

**Actual Results:** The results may be correct or incorrect - description of the output of the test case

**Pass/Fail:** Indication of whether the test case in the expected result corresponds to the actual result

**JSON:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S/N | Description | Test Inputs | Expected Results | Actual Results | Pass/Fail |

# 

**S/N:** Number of test case

**Description:** Explanation of what the test case scenario is about

**Test Inputs:** Provide the tester with necessary inputs or data used for the test case scenario

**Expected Results:** Correct output for the test case scenario

**Actual Results:** The results may be correct or incorrect - description of the output of the test case

**Pass/Fail:** Indication of whether the test case in the expected result corresponds to the actual result. Tester to check “yours” file for expected results and “out” file for actual results.

# Testing Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| **Iteration #** | **Functionalities** | **Plan Date** | **Pass/Fail Criteria** |
| 1 | Manual - Login for admin and student | 25/9/2019 | Userid and password checked |
| 1 | Web Service - Bootstrap validations | 25/9/2019 | Token validation, able to load corresponding files or display the correct error messages |
| 2 | Manual - Bid for a section | 13/10/2019 | Logic validations:  Courses available for bidding (depends on the round), class/exam timetable clash, prerequisites, course completed, section limit  Common validations  Display proper success message with e$ or display a proper error message |
| 2 | Manual - Drop bid | 13/10/2019 | Common validations, logic validation |
| 2 | Web Service & Manual - Admin Clearing logic round 1 | 13/10/2019 | Logic validations, common validations |
| 3 | Manual - Drop section | 24/10/2019 | Common validations, logic validations |
| 3 | Web Service & Manual - Admin Clearing Logic round 2 | 24/10/2019 | Logic validations, common validations |
| 3 | Web Service - Authenticate | 26/10/2019 | Token, validation |
| 3 | Web Service - Dump Table | 26/10/2019 | Token validation, dump correct information |
| 3 | Web Service - Start Round | 26/10/2019 | Token validation, start round successfully |
| 3 | Web Service - Stop Round | 26/10/2019 | Token validation, stop round successfully |
| 3 | Web Service - Update Bid | 26/10/2019 | Token validation, logic validation, bid update successfully |
| 3 | Web Service - Delete Bid | 26/10/2019 | Token validation, logic validation, bid delete successfully |
| 3 | Web Service - Drop Section | 27/10/2019 | Token validation, logic validation, section delete successfully |
| 3 | Web Service - Dump (User, Bid, Section) | 27/10/2019 | Token validation, logic validation, userid validation,the retrieved information is successful |
| 4 | View bidding results | 9/11/2019 | Information updated correspond with update a bid |
| 4 | Web Service - Bid Status | 9/11/2019 | Token validation, display correct bid status |
| 5 | Additional Manual & Web Service Testing after integration | 17/11/2019 | Token validation, common validations, logic validations |

**END OF TEST PLAN**