**TEST PLAN**

**G3T4**

**Table of Contents**

INTRODUCTION

1.1 Objectives

1.2 Team Members

2 SCOPE

3 ASSUMPTIONS / RISKS

3.1 Assumptions

3.2 Risks

4 TEST APPROACH

4.1 Test Automation

5 TEST ENVIRONMENt

6 MILESTONES / DELIVERABLES

6.1 Test Schedule

# 

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# **Introduction**

The Test Plan has been created to communicate the test approach to team members. It includes the objectives, scope, schedule, risks and approach. This document will clearly identify what the test deliverables will be and what is deemed in and out of scope.

## **1.1 Objectives**

1. The tester(s) should make sure all the changes made in the iteration are tested. The test cases made should be aligned from a user perspective, i.e., a student from Merlion university.
2. The tester should especially take care of ‘corner’ cases to ensure that the system is deployed without bugs.
3. To avoid bugs arising from integration, the tester should make sure all the test cases from the previous iterations are tested again.
4. All the test cases should be documented in the bm.xlsx adhering to its template.
5. If any test cases fail, and bugs are found, the bugs should be recorded immediately in bm.xlsx and all other team members should be informed about it on the SPM telegram chat.
6. If the final bug metric crosses 10 points, the tester(s) should notify the PM.

## **1.2 Team Members**

|  |
| --- |
| **Name** |
| Rathi Amey |
| Brian Goh |
| Gordon Lim |
| Lee Rou Hui |
| Ian Liew |

# **2** **Scope**

1. The testing should focus on all the functionalities covered in the iteration. The tester should read the details of the functionalities from the Project wiki page and formulate the test cases based on the functionality. If the tester is not clear about the logic of a functionality, they should ask the PM immediately to clear any confusion.
2. The tester is responsible for making sure the current functionalities in addition to the previous functionalities works properly on the deployed server follows the requirements given by Merlion university.
3. If the tester is confused about the functionalities implemented in the iteration, they should feel free to ask the PM about it, without any hesitation for the best interest of the team’s progress.
4. When the tester is testing additional functionalities, they should ensure that the main functionalities are not compromised.

# **3** **Assumptions / Risks**

## **3.1 Assumptions**

This section lists assumptions that are made specific to this project.

1. Deadline of each milestone is fixed
2. Deadline of final project submission is fixed
3. Group structure will not change throughout entire project

## **3.2 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 | Impact Level | Consequence | Mitigation Plan |
| 1 | Juggling between school commitments may cause members to miss scheduled tasks | High | Delays in schedule and deliverables | Have regular meetings to check in with members’ workload and reschedule accordingly |
| 2 | Unplanned tasks may cause us to underestimate the time taken for iteration completion | Medium | Cramming tasks at the end of iterations, which may compromise the quality of work | Members to constantly check project wiki to keep updated with client’s requirements |
| 3 | Coding new features may adversely affect existing features, causing them to no longer work as intended | High | Accumulation of bugs over time as project progresses | Conduct regression testing between and during iterations |

# **4** **Test Approach**

The project is using an agile approach, with bi-weekly scheduled testing sessions. After each testing session, bugs will be updated in the bug log and bug metric.

# **5** **Test Environment**

The testing should be either done locally or on the deployed server according to the discretion of the tester.

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# **6** **Milestones**

# **6.1 Test Log**

The initial test schedule follows……….

|  |  |  |
| --- | --- | --- |
| **#** | **Task Name** | **Completed?** |
| 1 | Login and Authentication | Yes |
| 2 | Bootstrap | Yes |
| 3 | Round 1 Bidding | Yes |
| 4 | Round 1 Clearing Logic | Yes |
| 5 | View Results | Yes |
| 6 | Round 2 Bidding | Yes |
| 7 | Drop Section | Yes |
| 8 | Round 2 Clearing Logic | Yes |
| 9 | JSON APIs | Yes |
| 10 | Cloud Deployment Testing | Yes |