**TEST PLAN**

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**Revision history**

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# TEST PLAN INDENTIFIER

## Imagineer-TestPlan-2.0

# INTRODUCTION

## Nature of the Project

Our team will be able to develop the Swappal project which is a community website to help registered users (Swappal members) swap and barter skills without paying any fees or money in 30 weeks. We created a initial scope for the project. All the detail information about the project will be written on the project plan.

## System Test Objectives and Scope

Documents describing test execution environment, the activities related to the test, tasks and schedules to perform the test. The goal will meet the expectations following:

* The main functions needed to be put in check exactly as required by the customer.
* The software meets the requirements and its effectiveness.
* To meet the ease of use and maintenance of software.

# ITEMS TO BE TESTED

All items constituting software systems "SWAPPAL" will be during System Test to ensure that the project team to comply with customer requirements.

The functions listed below can code and version number. But this position constitutes a verifiable configuration software "SWAPPAL".

Conducting test items constituting software "SWAPPAL" to ensure customer requirements according to tests conducted hang.

|  |  |
| --- | --- |
| **Sprint** | **Function Name** |
| 1 | - User View The Site Main Page.  - User Register New Swappal Account With Email  - User Log In Using Email  - Swappal Member Log Out |
| 2 | - User View The Site Main Page.  - Member Create Profile  - Member View Head Banner  - Member Edit Head Banner |
| 3 | - Member Create Profile.  - Re Test View Main Page  - Member View Head Banner  - Member Edit Head Banner  - Member View About Me  - Member Edit About Me  - Member View Review Page  - User Search For Individual Skills |
| 4 | - User sign in with FB & GG  - User filter list profile  - User view the site foundation on the website  - User view the site contact on the website  - User view the site FAQs on the website  - User view the detail of other User’s profile  - User search for individual skills  - Member view the request log page  - Member request swap  - Member exchange swap detail |
| 5 | - User sign in with FB & GG  - Swappal member write review the chosen member service  - User view review page  - Member using the recommended swap from the system  - Member exchange swap detail |
| 6 | - Swappal member write review the chosen member service  - Member view review page  - Member using the recommended swap from the system  - Member exchange swap detail  - Staff add skills  - Staff view list skills  - Staff edit skills  - Staff delete skills (deactivate skills)  - Staff add new category  - Staff edit category  - Staff view category skills list |

***Table 1 : Table Items to be Tested.***

# APPROACH

* The group will use existing resources to software testing.
* To ensure it meets the quality requirements, the testing process will focus groups to work together to facilitate exchange and solve problems encountered.
* Individuals will examine each part of the system and will be the other members took turns reviewing to avoid deficiencies.
* The program will be tested in the environment of use (Windows/IOS).

1. **Sources of sample domain data and test Oracles**

* Scrum team will provide input data and test scheduling.
* Output will be described and stored for comparison with later tests, help assess more accurate system.

1. **Staff**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Name** | **Task** | **Notes** |
| **1** | Tai Nguyen | Scrum team | Do Unit test, Integration test |
| **2** | Viet Dang | Scrum team | Do Acceptance test |

***Table 2 : Staff***

1. **Record Keeping**

* All relevant documents and data obtained during the test team will save on Team Services to the members can work together to monitor and respond quickly.
* The data files will be sorted by sprint, the errors found will be described and assessed the severity affect project.

1. **Test status**

System status will be monitored through regular team meetings, team leader will notify the current status quo and find statistical errors in sprint.

1. **Test tools**

The team members will use these tools to test application software systems new:

* Use Visual Studio Code write and run unit test, integration test.
* Use browser run testcase (functional test)
* Use Teamservice manage all task test
* Use word write file test plan
* Use excel export test report and write testcase in function.

1. **Stop-Test Criteria**

Testing will stop after each sprint to prepare for the new sprint. The results of the test will be recorded in the report and updated through the sprint. The testing process will be completely stopped when the project is completed.

1. **Types of system test**

* FUNCTIONAL TESTING: Test all functions as required. The test case does not pass will be saved to the defect and will be repaired to meet customer requirements.
* UNIT TESTING: Test unit functional before procceding code.
* INTEGRATION TESTING: Test the entire software system from start to finish. Aims to test interoperability of all functions.
* ACCEPTANCE TESTING: Run software for customers to view and get feedback from customers.

# PASS/FAIL CRITERIA

Pass / fail of test case is based on each test type. For:

* UNIT TEST: Because using the framework, when running the test case, the framework will output to show that the testcase generated is pass or fail.
* ACCEPTANCE TEST: Pass or fail depends on the decision of the customer when the software product demo.
* FUNCTIONAL TEST: A pass or fail testcase is a function that runs either true or false to the description of the testcase (based on customer requirements).
* INTERGRATION TEST: Pass or fail depends on interoperability between functions.

# SUSPEND/RESUME CRITERIA

The test work will be stopped at the end of workday. All documents will be saved test and submitted to Team Services (Swappal project). And test work will continue on the next working day.

Team will be based on the percentage of error occurs when the test system to evaluate applications in three levels:

* Level 1 : <20% (Error on display interface. Don’t stop the test).
* Level 2 : 20% - 50% (Error on any function. Stop doing new functionality and initiate corrective action).
* Level 3 : >80% (Meet 1 error affects the system and irreparable .Start over).

When the Sprint pack faulty function in large and can not be fixed, then Sprint will be demolished, rebuilt and a new Sprint continues the implementation process (design-code-Continuously-test).

# TEST DELIVERABLES

|  |  |  |
| --- | --- | --- |
| **No** | **Name** | **Describe** |
| **1** | Test plan | This document describes detailed test plans and methods for conducting a test of the group based on the resources, tools have been identified. |
| **3** | Test Report | This document describes all of the test results as well as an overall rating of the group. |
| **4** | Function test | Details of the test module, the test function pass, fail and cancel. |
| **5** | Unit test | Details functional units will code |
| **6** | Acceptance test | Confirm complete with client function to the next function. |
| **7** | Integration test | Validating all functions to the present time is completely compatible with each other. |

***Table 3 : Testing Deliverable***

# TESTING TASKS

* All task jobs are wrote and managed details on Teamservice.

# THE TESTING ENVIRONMENT

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Test items** | **Hardware** | **Software** |
| **1** | Work station | * Windows 7, 8, 10, Mac OS | PC/Laptop :   * Hard disk space:4GB * Memory: more than 2GB * CPU: Intel Core i3,i5 and more |
| **2** | Development languages, Databases, Application server | * JavaScript. * TypeScript. * Mongo DB. * Visual code. * GitHub. * Angular JS. |

***Table 4 : Testing Environment***

# RESPONSIBILITIES

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Roles** | **Responsibility** | **Assign** |
| **1** | Scrum team | The test plan will establish, control tester, test and report the results. | Scrum team |
| **2** | Scrum team | Generate test cases, test cases and test it | Scrum team |
| **3** | Scrum team | Testing and debugging | Scrum team |

***Table 5 : Responsibilities***

# SCHEDULING

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Sprint** | **Start date** | **Finish date** |
| **1** | Sprint 0 | 12/25/2016 | 12/31/2016 |
| 2 | Sprint 1 | 01/11/2017 | 01/23/2017 |
| 3 | Sprint 2 | 02/23/2017 | 03/09/2017 |
| 4 | Sprint 3 | 03/18/2017 | 03/28/2017 |
| 5 | Sprint 4 | 04/05/2017 | 04/18/2017 |
| 6 | Sprint 5 | 04/26/2017 | 05/08/2017 |
| 7 | Sprint 6 | 05/14/2017 | 05/26/2017 |

***Table 6 : Scheduling***

# RISK AND CONTINGENCIES

* The customer does not have time to put the data to testcase. (Find ways to communicate with customers in a variety of media such as email, message....)
* The members of the team during the test conflict. (When a conflict or disagreement testcase members may take the vote both teams.)
* Duration of the code is too limited to affect the test of time. (As time limited test, we just test the most important functions that allow time to ensure the best possible requirements)
* Ability to test the weak members.

# SYSTEM TEST COSTS

Test Costs are costs for money wages to members perform the testing. Because the size of the project using Scrum model should be used Team Services(5 people use free and user 6 rental cost $5).

# TEST PROCESS DIAGRAM

Reference in Imagineers-ImplementationPlan.docx