Social Interest e-Club

Software Test Report

1. Introduction

## Purpose and Scope

The main goal of this documentation is to explain the project’s testing and evaluation. The documentation includes the general security measurements for testing and how to test the system as well as the evaluation of the results of the testing. Software test report also includes the preparations needed for the tests to occur.

## Descriptions and Abbreviations

|  |  |  |
| --- | --- | --- |
|  | |  |
| Term/Acronym |  | Definition |
| STR | | Software Test Report |
| UC  TC | | Use Case  Test Case |
| SQL | | Structured Query Language |
| JS | | Java Script |
| SIeC | | Social Interest e-Club |

# Descriptions of Test Activities

## Document Security

Because software test documentation describes how to test the software and the security measurements and preparations needed for system to work, it is very important that this documentation isn’t shared with unauthorized people because they could exploit the system very easily with the information on this document. This is why we are only uploading our documentation with authorized people like the team members and teachers of BBM384 course via the submit system chosen and the only people who can change the contents of software test documentation are team members.

## Data Recording, Reduction and Analysis

Our team’s testing procedures’ type is manual testing, as we progressed with testing, the data used and the results of testing are documented on test case definitions documentation which will be appended in DEL5.

The types of testing strategies used were unit testing, sanity testing because we tested our functions while writing the codes and observed if system stable enough to continue programming. If the use data correctly results, the data is considered correct and recorded. At the end of the project we used black box testing to test the functionalities blindly.

# Test Preparation

## Hardware Preparation

We are developing a web application that can be accessed through browser types. So as long as user has internet connection and an electronic device that can reach browser.

## Software Preparation

The software needed is an internet browser such as google chrome etc.

As we stated in data recording, reduction and analysis section of the documentation, we are using black-box testing method which works as if the tester doesn’t know anything about the code or database of the project and test the necessary functions according to rules, for example for login function the tester knows they should use an email end password but they don’t know about the code of login use case. When we use the black-box method, we can put ourselves in user’s position and observe objectively and correctly.

Also because we used waterfall development model unit testing and sanity testing fit the best.

The storage for data is greprosql program as API which is a mySQL program. When the program is started because the system is a web application the software loads.

## Other Pre-test Preparations

On the Test Case Definition documentation which we delivered empty before, we created the test that we will conduct on each of the use cases of the system. The test case definitions documentation will also be filled in detail and append with this documentation.

Because we used unit testing method in which we tested some of the use cases while developing the system and for the first demo of our system we also tested some of the use cases so workload of testing is lighter than before.

1. Test Results

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Use Case Number | | Use Case Name | Test Case Description  File Name | Retest? | Number of Activity Paths Tested | Number of Non-working Activity Paths | The time spent |
| 1 | Register | | Admin Register (TC-001) | Yes | 4 | 1 | 10 minutes |
| 2  3  4  5  6  7  8  9  10  11 | Register  Register  Login  Password Recovery  Logout  Search Clubs  Add Club  Delete Club  Rate Club  Comment on Club | | Sub-club Admin Register (TC-002)  Member Register (TC-003)  Login Module (TC-004)  Password Recovery Module (TC-005)  Logout Module (TC-006)  Search Clubs (TC-007)  Adding Clubs Module (TC-008)  Deleting Clubs Module (TC-009)  Rating the club module (TC-010)  Commenting on the club module (TC-011) | Yes  Yes  Yes  No  No  Yes  Yes  Yes  Yes  Yes | 4  4  2  1  1  3  3  3  2  2 | 1  1  0  1  0  2  3  3  2  2 | 10m  10m  10m  5m  5m  10m  15m  15m  10m  10m |
| 12 | Member Management | | Member management module (TC-012) | Yes | 3 | 3 | 10m |
| 13 | Check/Update Status | | Check/Update status module (TC-013) | Yes | 3 | 3 | 10m |
| 14 | Create online /offline events | | Creating online/offline events module (TC-014) | Yes | 3 | 3 | 10m |
| 15 | Manage Questionnaire | | Managing questionnaire module (TC-015) | Yes | 3 | 3 | 15m |
|  | TOTAL | | ***15*** |  | ***41*** | ***28*** | ***155m*** |

## Criteria for Evaluating Results

Criteria for evaluating results has the purpose of observing the results of the test documentations and decide how well the system is doing in terms of successfully working.

The general criteria we are using to evaluate our work is:

* Completing the general functional test coverage.
* Successful output or outcome of the function testing occurring.
* The functions happening shouldn’t take too long to complete, all the processes should finish in milliseconds.
* There shouldn’t be crashes happening, exception handling should be good enough to detect unexpected situations. The user’s actions should be predicted and the system should respond to those situations accordingly.
* In the exception handling parts of the code if an issue occurs warning messages should be displayed.
* The user experience should be easy to use and understand.
* Identifying and fixing the apparent and high importance bugs.
* After fixing the bugs retesting and verifying that issue is fixed.
* The output of the wanted process should be observable with the interface.

Some cases that have special credentials:

* Logout:

According to our criteria when the user logs out of the system login page opens, logout operates from a button that is placed on top right corner of the page.

* Check status:

Check status is used to view the status’ of the users and when the profile page opens the status of the user is displayed on the screen.

* View clubs:

The list of clubs are shown.

* Search clubs:

To search clubs the user doesn’t have to be a member of the system they can search the clubs from the search page as well as if the user is registered they can search from the search bar on top of the main page.

* View members:

The members in a club or sub-club are displayed on the screen.

* Manage clubs:

This task is done by the admin who can add and delete clubs according to requests and amount of activity in the club. The admin can choose the new sub-club admin and can change the questionnaire so there are questions about the new club /sub-club and there are no questions about deleted club/sub-club.

* Rate club:

The members in a club can rate the club/sub-club.

* Comment on club:

The members in a club/sub-club can comment on the club/sub-club.

* Online/offline events:

Arranged by the sub-club admin for that sub-club, can be seen from sub-club’s main page.

# References

* <https://www.researchgate.net/publication/342097085_Purpose_and_Scope_of_Software_Testing_in_Software_Development_Life_Cycle>
* Test Case Definitions Document
* Software Requirements Document (SRD)
* Software Design Document (SDD)
* Configuration Change Document
* Risk Management Document
* Architectural Notebook
* Use Case Definitions