



TEST PLAN

Project MyGuruAvatar

Magesh

Revision history

Version	Comments	Author	Date
0.1	Initial version created	Magesh	4/1/2020
0.2	Document review, minor changes	Magesh	10/1/2020

Terms and abbreviations

Abbreviation	Sense
QC	Quality Control
PM	Project Manager
QA	Quality Assurance
GUI	Graphical User Interface
UI	User Interface
UAT	User acceptance Testing
TC	Test case
TS	Test Scenario

Purpose

The purpose of this document is to work out in details the QA activities required to be performed for **MyGuruAvatar** project; to define the test strategy and approach to testing; to define the scope of the QA activities and to identify the responsibilities.

Overview

Guru Avatar is the virtual classroom for training

A summary of the project specific objectives for Guru Avatar include:

- Improve the GUI Interface in the website to make it presentable to the visitor on all the form
- Improve the online form for better usability
- Improve User Experience on the site for both Guru and Student

Test Items

Following items are planned to be tested:

- End 2 End testing of GuruAvatar website

Features to Be Tested

1. Login page
 - a. Validate Sign Up form
 - b. Validate Student login
 - c. Validate Guru Login

- d. Forgot Password
 - e. Remember password
 - f. Links on the login page
- 2. Profile Page
 - a. Create new Profile
 - b. Edit new profile
 - c. Validate all the field in the profile (Few Fields will have limitation of max 5 Options Eg. Skill , Language)
 - d. Upload Photo to profile
 - e. View Profile
- 3. Room Page
 - a. Switch from student to Guru Profile using the drop down
 - b. Create a room (With Guru Login)
- 4. Connection
 - a. Send Request to connection
 - b. Accept request from connection
 - c. Reject connection
 - d. Give Review to the Connection
- 5. Search
 - a. Search by room
 - b. Search by Guru
 - c. Search by Student
- 6. Contact us page
- 7. Validate all the link in each page

FEATURES NOT TO BE TESTED

- Blog
- Joining a Room
- Wallet feature

Test Strategy

Test Coverage

The following table defines planned test coverage for this project by feature and test type:

Test Types

SMOKE TESTING defines the initial tests performed after initial construction of or critical change to any component. It assures that the most critical features work.

Additionally, smoke tests will be used by QA to accept software builds from Development team. See Entry Criteria section to know what criteria will be used to decide whether system under test can enter testing phase.

There will be no separate smoke tests designed especially for smoke testing. Part of functional tests will be used as smoke tests.

USABILITY TESTING measures the usability, or ease of use, of a specific object or set of objects.

FUNCTIONAL TESTING refers to the set of comprehensive tests that verify system functioning against functional requirements. It verifies that all functional requirements are implemented properly Functional tests will cover all features defined in the Features to be Tested section.

REGRESSION TESTING will be performed after new components and defect fixes are integrated into the existing system to validate that unchanged components (that were implemented earlier) still work as originally intended.

Regression testing will be performed using the existing functional and integration tests to ensure that previously released features function as originally intended. Specific tests that should be run as regression tests will be defined when there will be need in regression testing. Number of tests to be run will depend on the new components and/or defect fixes nature and complexity.

GUI TESTING will be performed on the appearance of the website and the all standard like Font, Spacing, spelling, Grammatical error and alignment on the page.

COMPATIBILITY TESTING will be performed to check that the website performs the same way on all the browser available and not limited to Chrome, Microsoft edge, Internet explorer, Opera, Safari and Firefox.

Test Design

Tests will be designed for functional, integration and performance testing only. Checklists will be designed for GUI and security testing. There will be no separate tests for smoke or regression testing. Set of functional or integration tests will be run as smoke or regression ones.

Smoke tests. Number of smoke tests will be defined as 10-15% out of all functional tests planned for a build.

Functional tests. These tests will be designed for all features that are described in Features to be Tested section. This type of tests will be based mostly on functional specification thus verifying requirements implementation correctness.

Regression tests. Set of functional tests to be run as regression ones will be determined based on the found defects and their possible impact on the previously implemented /modified features. It is expected that regression testing will include 50% of all functional tests. Detailed listing of the regression tests will be created upon functional testing end.

Excel is used to design tests. All tests are characterized by: (Manual testing)

- Section:

- Test_id: (Format : FL001, Eg , MS001 , Magesh Shanmugan)
- Test Description:
- Priority: (Priority Type : P1-P5, where P1 is critical and P5 is low)
- Test Type – defines type of testing:
- Pre conditions – defines data that should be in the application or tests which should be executed prior to a test execution:
- Test Steps:
- Test Data :
- Expected Result:
- Actual result :
- Status

Test Status Reporting

Status on QA work will be coordinated with PM, communicated via mail, discussed over phone and during conference calls.

Both Test Design and Test Execution status will be reflected in the QA Status Report document. All tests that are planned for design or execution will be included in the document. This document will be constantly updated by QA on the course of the project for every test.

All Tester must submit a Status Report via Email by Friday As per the Project schedule.

Email Subject: Intern12Jan - <Tester Name> - Status report < Date >

Report should factor the following:

- No of Test case Designed :
- No of Test case Executed :
- No of Issue found :

Test Environment

Testing Should be performed on following Website:

www.myguruavatar.com/demo (Test Environment)

Note: Please don't Use Production website (www.myguruavatar.com/demo) for testing activity

Test data:

- Guru Login Test Data will be provided by Project manager
- User Login Test data Should be created by Every Team member with the following format specified
 - Username format: Test_Firstname (Eg : Test_Magesh)
 - Password: Welcome123

Testing Tools

Following tools will be used by QA team:

- Test case details : MS Excel
- Error and bugs : Screen capture tools
- Test Summary report : MS Word
- Automation tool : Selenium IDE & Webdriver, Eclipse

Entrance Criteria

The following requirements should be met prior to start of testing:

- Smoke testing has passed successfully
- Testing environment is ready
- All tools defined in the Testing Tools section are available to QA team

Pass/Fail Criteria

The following criteria determine conditions for a test's "Failed" status:

- The feature under test does not operate according to a stated requirement.

- The feature under test operates in a way that will create a perception of low quality, even if the stated requirements were met.
- The feature under test does not work properly with another one that is supposed to be compatible

Exit Criteria

The following criteria must be met for the product under test exit QA phase.

- All planned tests have been run and have status Passed.
- All Blocker and Critical priority defects have been fixed.
- All defects that are not/cannot be fixed and/or verified till the delivery have been communicated and agreed with customer.

ROLES & RESPONSIBILITY

QA:

- Design and Execute Testing on the Website
- Generate status report to monitor the progress
- Collaborate with the team and Project manager

PROJECT SCHEDULE:

Week 1: (Manual Testing)

- Requirement > Scenario > Test Case > Test Procedure
- Create all Manual Test case of the website based on the feature.
- Prioritize all Test case and use RTM
- Execution should start only if test cases are identified for the feature that will tested.

Note: Status update for week 1 should be shared by every individual on Friday to the project manager.

Week 2: (Manual & Automation): (Manual and Partial Automation)

- Identify the Automation test cases
- Use Selenium IDE or Selenium WebDriver for Automation testing

Note: Status update for week 2 should be shared by every individual on Friday to the project manager.

Week 3: (Automation & Agile):

- Daily Stand-up Call (1 Pm) with Project manager.
 - What was done yesterday?
 - What is planned for today?
 - Any challenges
- Each team should consolidate the test case created by the Individual teams and Allocate work resources.
- All testing should be done in Selenium WebDriver.

Note: Status update for week 3 should be shared by every individual on Friday to the project manager.

Week 4: (Test Cycle Closure)

- Final meeting with your project manager and teammates to discuss improvements for next project.
- Give a detailed analysis of the bugs removed and errors found along the project.
- Conclusion and feedback about internship in terms of best practice learnt.

Test summary report:

Each Project Manager will be providing summary report at the end of the project.