*<http://qwallity4.herokuapp.com/ application>*

Test Plan

**Release *<4>***

***<25.01.2022> - <25.03.2022>***

VERSION HISTORY

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID & Version #** | **Prepared**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 1 | *Christine Hakobyan* | *<27.01.2022>* | *Nelli Krtyan* | *<27.01.2022>* | 4 |

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# Introduction

## Purpose of The Test Plan Document

The purpose of the test plan is to test <http://qwallity4.herokuapp.com/> application.

**The QA team** will use the manual testing approach, specification based or black box techniques for the <Product and Version> release.

# Test ITEM

## Project description

Http://qwallity4.herokuapp.com/ is an application of QWALLITY start-up IT company which is focused on the software quality assurance.

*The application includes fundamental and advanced courses on main software testing types, trainings, etc.*

## Items to be Tested

|  |  |  |  |
| --- | --- | --- | --- |
| **Item to Test** | **Test Description** | **Test Date** | **Estimation** |
| User Story # 1 | <Register> page functionality testing | <01/27/2022 > | 2pt |
| User Story # 2 | <Log in> page functionality testing | <01/27/2022> | 1pt |
| User Story # 3 | <Exercises> page functionality testing | <01/31/2022> | 2pt |
| User Story # 4 | <Courses> page functionality testing | <02/01/2022> | 2pt |
| User Story # 5 | < Home> page functionality testing | <02/02/2022> | 1pt |
| User Story # 6 | <About us> page functionality testing | <02/03/2022> | 0.5pt |

## Test Approach(s)

**Manual Testing Approach** –Specification based or Black box tests will be done on this product, tests will be documented on the https://qwallitysoftwaretesting.testrail.io/ platform, etc.

**Security Testing -** <Register> page, <Log in> page security testing will be done.

**Scope of GUI Testing** – <Register> page, <Log in> page, <Exercises> page, <Courses> page, < Home> page, <About us> page of the GUI will be tested.

**Integration Testing**  - Integration component to the product are <Register> page, <Log in> page, <Exercises> page, <Courses> page, < Home> page, <About us> page.

**Regular Bug Triages** – PO or PM are responsible for ensure that bugs are being prioritized on a regular basis, QA, DEV, BA and Document Writer representatives are taking part in the regular bug reviews.

**Testing Execution and Bug Tracking** - The testing team will keep track of their testing progress through the platforms <https://qwallitysoftwaretesting.atlassian.net/>, <https://qwallitysoftwaretesting.testrail.io/>, etc.

## Test Deliverables

| Milestone/Project | Completion/Execution Dates |
| --- | --- |
| Requirements Review/Estimation | <01/27/2022> |
| *Test Case preparation* | <01/31/2022> |
| *Test Case review* | <02/01/2022> |
| Regression testing (manual + automation) | <02/07/2022> |

## 

## Staffing / Training Needs

Staff for testing consists of two Junior Testers, Senior Tester and a Team Leader (QA Lead/Test Lead/teat Manager), a Project Manager.

QAs need to take part in trainings.

# Risk and mitigation

## Test Risks / Issues

The progress of testing may impede lack of tester experience and skills, absence of DB Testing, absence of API Testing, absence of Automated Testing, etc.

# Test Environment and infrastructure

## Required Infrastructure

Infrastructure for test environment is <http://qwallity4.herokuapp.com/>.

# Roles and responsibilities

## Roles and assigned responsibilities

|  |  |
| --- | --- |
| **Role** | **Responsibility** |
| Junior **QA Engineer** | Integration testing of the <Register> page functionality, <Log in> page functionality, <Exercises> page functionality, <Courses> page functionality, < Home> page functionality, <About us> page functionality |
| Senior **QA Engineer** | Confirmation testing, Regression testing |
| Team Leader | Coordination of testing(Setup test process in project and monitor) |

## Test Team Leader/Manager

The QA Team Leader/Manager is responsible for the following:

**Team Management - Planning Tasks**

* Define detailed Test schedule for team.
* Provide initial test planning for the QA team.
* Define QA Team roles and responsibilities.
* Estimate effort for the various deliverables.
* Identify training requirements.
* Identify support requirements.
* Interview candidates to fulfill the various Software Tester roles.

**Team Management - Daily Tasks**

* Define QA tasks to be performed.
* Resolve management issues involving QA and the development team.
* Track ongoing QA preparation and execution tasks in a schedule tool.
* Manage the QA Team (motivation, assessment, and orientation of new members).

**Team Management - Weekly Tasks**

* Assign tasks to various team members.
* Attend applicable management meetings for the purpose of providing QA's approval of all change requests (when applicable).
* Chairs the team status meetings.

**Team Management – Ad hoc Tasks**

* Manage testing of software fixes during the Beta, Final and Regression phases of Testing.
* Identify potential testing roadblocks.
* Write performance reviews of testers.

**Team Management - Deliverables**

* Ensure quality, timeliness of the various testing deliverables as identified in this Strategy document.
* Provide comments as the internal testing reviewers for the development deliverables (Functional Specs, design docs, etc.).

## Software Tester

The software tester reports to the QA Team Leader/Manager and is responsible for writing and executing manual and automated tests. The Software Tester's responsibilities include:

**Test Plan/Matrices and Scripts Preparation**

* Research relevant documentation to become knowledgeable enough to understand how the application was designed for the purpose of writing Test Plans/Matrices and Scripts.
* Write test plans that can be easily reproduced.
* Write test scripts that are easy to maintain.
* Ensure test plans and scripts are Traceable to applicable requirements and functional design documents (Functional Specs, help text, Design Documents, etc.).
* Write test cases (required set-up, procedures and information).
* Attend testing overviews (if available).

**Independent Verification of Test Specs/Matrices and Scripts**

* Provide Test Plans/Matrices and Scripts for review by peers, development and marketing representatives.
* Incorporate review comments into Test Plans/Matrices and Scripts.
* Conduct peer reviews Test Plans/Matrices and Scripts.

**Test Execution**

* Execute the Test Plans and Matrices.
* Run the automated tests.
* Report problems by raising bugs in Siebel.
* Follow up on bugs previously submitted in Siebel.

**Analyze Results**

* Report on successful test spec/matrix completion.
* Report on successful automated test completion.
* Verify successful resolution of bug fixes by verifying the contents of the bug reports and rerunning the test where applicable.
* Identify issues that should be documented in the Readme/Release Notes.

# Test Schedule

## Milestones and schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Milestone** | **Deliverable** | **Effort (Person Hour)** | **Start Date** | **End Date** |
|  | Requirements Review/Estimation | 2 | <01/27/2022> | <01/27/2022> |
|  | Test Case preparation | 2 | <01/31/2022> | <01/31/2022> |
|  | Test Case review | 2 | <02/01/2022> | <02/01/2022> |
|  | Manual Testing | 6 | <02/02/2022> | <02/02/2022> |
|  | Regression testing (manual + automation) | 4 | <02/07/2022> | <02/07/2022> |

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