*<QWALLITY WORKSPACE>*

*http://qwallity2.herokuapp.com*

Test Plan

**Release *<1>***

***<28.05.2021> - <30.06.2021>***

VERSION HISTORY

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID & Version #** | **Prepared**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 1 | *Armine Nersisyan* | *28.05.2021* | *Qwallity* | 29.05.2021 |  |
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# Introduction

## Purpose of The Test Plan Document

The purpose of this document is to communicate the testing approach that the QA team will use for the < QWALLITY WORKSPACE Version2> release. This document is targeted to the following reader groups:

**The QA Team**- This document will communicate internally the process used and the scope of the testing.

**The Development/Management Teams**- This document will provide a clear understanding of the testing approach to all external teams.

# Test ITEM

## Project description

Test plan for Qwallity web application. The application intended for giving information about QA engineer trainings.

## Items to be Tested / Not to be Tested

|  |  |  |  |
| --- | --- | --- | --- |
| **Item to Test** | **Test Description** | **Test Date** | **Estimation** |
| Registration page | Create account using email | <30.05.2021> | 5pt |
| Login page | Check positive and negative cases | <05.06.2021> | 5pt |
| Add course page | Add courses using application | <10.06.2021> | 5pt |
| Database testing | Check all functionality connected to database | <30.06.2021> | 30pt |

## 

## Items to Not be tested

|  |  |
| --- | --- |
| **Item Not to Test** | **Comment** |
| API testing | lack of relevant knowledge |
| Performance testing | Time is limited |
| Stress testing | Time is limited |
| Security testing | lack of relevant knowledge |

## Test Approach(s)

**Functional testing Approach** **-** The objective of functional testing is to make sure that the whole software product works according to the requirements, and no significant errors appear in the application. It involves checking of different aspects of the system. A software product must pass all the planned tests. Only in this case its quality can be assured

**Manual Testing Approach** – Using black box testing technique.

**Integration Testing**  - Checking connection the application to the database

**Regular Bug Triages** – QA Lead responsible for ensure that bugs are being prioritized on a regular basis.

**Testing Execution and Bug Tracking** – – QA Lead keep track of the testing progress?

## Test Deliverables

This QA testing schedule is largely based on the development and technical publications schedules. All dates are subject to change if the development or documentation milestones are moved. Here are the key dates and testing periods.

| Milestone/Project | Completion/Execution Dates |
| --- | --- |
| Requirements Review/Estimation | <03.06.2021> |
| *Test Case preparation* | <10.06.2021> |
| *Test Case review* | <17.06.2021> |
| Manual Testing | <23.06.2021> |
| Regression testing(manual+automation) | <26.06.2021> |

## 

## Staffing / Training Needs

For lacking API and security testing knowledge, shout have appropriate trainings.

# Risk and mitigation

## Test Risks / Issues.

# Due to the lack of security testing, the application can be hacked. The solution will be training or hiring a qualified person for the testing team.

# Test Environment and infrastructure

## Required Infrastructure

Brouser- Google Chrome

Database- MySQL Workbanch

Environment https://qwallity2.herokuapp.com/login

# Roles and responsibilities

## Roles and assigned responsibilities

|  |  |
| --- | --- |
| **Role** | **Responsibility** |
| Junior Tester | Design test cases,review others test cases,  Executing cases tests,  Analyzing test case results,  Prepare bug reports.  Participate all meetings and necessary trainings. |
| QA Lead | Collect the requirements and documentation,  Make a test plan,  Monitoring and control the testing activities, making sure that the works are performed according to the plan,  Reporting about the progress and found bugs. |
| Project Manager | Manage testing process,  Provide all the needed resources for the testing activities. |

## 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** |
| Checking functionality | Test cases  Bug reports | 48 | 03.06.2021 | 15.06.2021 |
| Checking database | Test cases  Bug reports | 124 | 16.06.2021 | 26.06.2021 |