*<Qwallity app>*

Test Plan

**Release *<10 Days>***

***<03.01.2022> - <03.10.2022>***

VERSION HISTORY

[Provide information on how the development and distribution of the **Test Plan**, up to the final point of approval, was controlled and tracked. Use the table below to provide the version number, the author preparing the version, the date of the version, the name of the person approving the version, the date that particular version was approved, and a brief description of the reason for creating the revised version.]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID & Version #** | **Prepared**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| unique id | *person name* | *< date>* | *person name* | *<date>* | release number |
| 001 | Zhenya Marutyan | 01.03.2022 | Maria Manukyan | 03.03.2022 |  |
|  |  |  |  |  |  |

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# Introduction

## Purpose of The Test Plan Document

The purpose of this document is to organize the testing of QWALLITY APPLICATION on the <https://dev-qwallity.herokuapp.com/> environment. This test plan identifies the features to be tested, the testing tasks, who will do each task in concrete schedules, the test environment, test design techniques and any risks requiring contingency planning. This document is intended for the following groups:

**The QA Team**- This document will internally cover all the implemented processes 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

The following document is designed for the testing of the QWALLITY application, which is made by a start-up IT Company focused on the software quality assurance. QWALLITY is such type of application that mainly allows the client to choose the relevant course, to get detailed information about it and have access to several exercises.

## Items to be Tested / Not to be Tested

In the scope of the following Test Plan we are going to focus on the testing of **UI**, **functionality** and **performance**.

|  |  |  |  |
| --- | --- | --- | --- |
| **Item to Test** | **Test Description** | **Test Date** | **Estimation** |
| #1 UI Testing | All the pages, visual elements like buttons, icons are visible and clickable. | <03/01/2022> | 3pt |
| # 2 Functionality of Home page | All the courses with their corresponding information (ID, title, author, price and data) must be correctly displayed on this page. | <03/01/2022> | 5pt |
| # 3 Functionality of ‘About us’ page | The page should be available for the user. | <03/03/2022> | 1pt |
| #4 Functionality of ‘Courses’ page | All the input fields should function properly. | <03/05/2022> | 5pt |
| #5 Functionality of ‘Exercises’ page | The exercises (Calculator and Black Box) should function correctly. | <03/07/2022> | 5pt |
| # 6 Functionality of ‘Register’ page | The registration page should be tested with positive and negative test cases, according to the requirements. | <03/08/2022> | 5pt |
| # 7 Functionality of ‘Login’ page | The login page should be tested with positive and negative test cases, according to the requirements. | <03/09/2022> | 3pt |
| #8 Functionality of Weather forecast | Weather forecast should be displayed in the corner of the app’s page. | <03/10/2022> | 1pt |
| # 9 Performance testing | In the scope of this testing, speed, stability, scalability of the application should be verified. | <03/10/2022> | 5pt |

## Items to Not be tested

|  |  |
| --- | --- |
| **Item Not to Test** | **Comment** |
| 1. Stress testing | No need of such type of testing, as it is not mentioned in the requirements. |
| 1. Database testing | There is no access to database given for this type of testing. |

## Test Approach(s)

**Testing Approach** – Manual testing will be done on the QWALLITY application. The mentioned app must be subject to Manual (System) testing, in order to check complete and end-to-end scenarios, as the way a customer would use the system.

**Testing and Traceability** – Test cases should be designed according to the application and bug reports will be created and represented to developer’s team. As a final documentation, QA team should deliver Summary report, which will cover all the necessary points of implemented testing.

**Scope of GUI Testing** – Each part of the GUI will be tested.

**Regular Bug Triages** – QA Lead is responsible for ensuring 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** – Testing team keeps track of their testing progress by delivering test cases and corresponding bugs on time.

**Bug Severity and Priority Setting** – The severity and priority setting of bugs should be clearly defined by QA and DEV Team in order to minimize ambiguity and ensure everyone has a common understanding.

**Description of the types of testing done and the testing period for this release** – System testing should be done. Testing period for the release consists of 10 working days.

## 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 | <03/01/2022> |
| *Test Case preparation* | <03/02/2022> |
| *Test Case review* | <03/03/2022> |
| Manual Testing | <03/07/2022> |

## 

## Staffing / Training Needs

Manual testing must be implemented, in this case there is no need of any specific requirements for the testing to be performed to the staff. No need of extra Trainings.

# Risk and mitigation

## Test Risks / Issues

The following points can include risks and may reflect on the quality of the product:

* Frequent requirement changes
* Short deadlines
* No access to Database

# Test Environment and infrastructure

## Required Infrastructure

# *<https://dev-qwallity.herokuapp.com/>*

# Roles and responsibilities

## Roles and assigned responsibilities

[Describe various roles and responsibilities given to them. E.g. Junior Tester, Senior Tester, Project Manager etc.]

|  |  |
| --- | --- |
| **Role** | **Responsibility** |
| Project Manager | Monitors the Testing phases, ensures quality, timeliness of the various testing deliverables. |
| Senior Tester | Verifies, controls and gives advices concerning the Product Testing. |
| Junior Tester | Executes Testing. |

## 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

[Describe the describe key milestones, deliverables, efforts, start date and end date]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Milestone** | **Deliverable** | **Effort(Person Hour)** | **Start Date** | **End Date** |
| Home page | Test case/Bug report | 3 | 03.02.2022 | 03.03.2022 |
| ‘About us’ field | Test case/Bug report | 1 | 03.03.2022 | 03.04.2022 |
| ‘Courses’ field | Test case/Bug report | 5 | 03.04.2022 | 03.06.2022 |
| Exercises | Test case/Bug report | 5 | 03.06.2022 | 03.07.2022 |
| Register | Test case/Bug report | 5 | 03.07.2022 | 03.08.2022 |
| Login | Test case/Bug report | 3 | 03.08.2022 | 03.09.2022 |

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