***https://dev-qwallity.herokuapp.com***

*<Qwallity app>*

Test Plan

**Release*<001>***

***<05.05.2022> - <05.08.2022>***

VERSION HISTORY

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID &Version #** | **Prepared**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| unique id | *person name* | *< date>* | *person name* | *<date>* | release number |
| 01 | Raya Manukyan |  | Maria Manukyan |  | 01 |
|  |  |  |  |  |  |

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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 <Product and Version> 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

https://qwallity.herokuapp.com/ app is created for Qwallity IT Company, which main goal is to develop the Qa field in all regions of Armenia to train QA specialists ready to work in different regions. In this project users can register, log in, add, buy, edit and delete courses.

## Items to be Tested / Not to be Tested

|  |  |  |  |
| --- | --- | --- | --- |
| **Item to Test** | **Test Description** | **Test Date** | **Estimation** |
| User Story # 1 | Register functionality |  | 5pt |
| User Story # 2 | Login functionality |  | 3pt |
| User Story # 3 | Courses field (fundamental/advanced) buy for non admin user |  | 5pt |
| User Story # 4 | Courses field (fundamental/advanced) edit/delete for admin user |  | 5pt |
| User Story # 5 | Exercises field (Calculator/Black Box) |  | 3pt |
| User Story # 6 | MyCourses for logged in user |  | 5pt |
| User Story # 7 | TestUser field for logged in user  (considering admin/non admin users) |  | 5pt |
| User Story # 8 | Home, About Us page correctness |  | 1pt |

## Items to Not be tested

|  |  |
| --- | --- |
| **Item Not to Test** | **Comment** |
|  |  |
|  |  |

## Test Approach(s)

[Strategy to test the software. Includes types of tests and how to test. Functional, performance, security testing using combined [manual + automation], manual only, automation only approach.]

Use functional testing manually combined with API testing

This section describes the methodology used by the QA team. Some examples of subsections are as follows:

**Scope of GUI Testing** – Home page, About Us pages

**Integration Testing**  - register and login pages integration, login and courses page integration

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

**Testing Execution and Bug Tracking** – with TestRail and Jira tools the testing team will keep track of their testing progress

**Bug Severity and Priority Setting** – In bug reports these defined clearly 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** - Functionality Testing, API testing, Performance testing, Security testing

## 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 | <mm/dd/yy> |
| *Test Case preparation* | <mm/dd/yy> |
| *Test Case review* | <mm/dd/yy> |
| Manual Testing | <mm/dd/yy> |
| API Testing | <mm/dd/yy> |
| Regression testing(manual+API testing) | <mm/dd/yy> |

## 

## Staffing / Training Needs

API testing training for team members, DB testing skills

# Risk and mitigation

## Test Risks / Issues

DB testing is permissible only after backup

# Test Environment and infrastructure

## Required Infrastructure

Required pc with Windows 10, 11 OS

# Roles and responsibilities

## Roles and assigned responsibilities

|  |  |
| --- | --- |
| **Role** | **Responsibility** |
| Junior Qa Engineer  Raya Manukyan | *Test Case preparation, execution, bug reporting, Api testing* |
| Junior Qa Engineer  Name Surname | *Test Case review, bug reporting review*  *DB 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 – Adhoc 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** |
| 1 | Test plan, cases, bug reports | 120hour | 05.05.2022 | 31.05.2022 |
| 2 | Ready for release project | 250 hour | 01.06.2022 | 05.08.2022 |
|  |  |  |  |  |

Good job ☺