*<Qwallity Application>*

Test Plan

**Release *<01>***

***<16.04.2024> - <16.05.2024>***

VERSION HISTORY

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID & Version #** | **Prepared**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 01 | Tatevik Muradyan | 16.04.2024 | Gohar Khachatryan | 18.04.2024 | 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

## Items to be Tested / Not to be Tested

|  |  |  |  |
| --- | --- | --- | --- |
| **Item to Test** | **Test Description** | **Test Date** | **Estimation** |
| # 1 Registration | User must be registered successfully with valid data. | 04/17/2024 | 5pt |
| # 2 Login | User should be login successfully. | 04/20/2024 | 5pt |
| # 3 Add new courses (Fundamental and Advanced) | Only admin user can add new courses. | 04/25/2024 | 3pt |
| # 4 Buy course (Fundamental and Advanced) | Only non-admin user can buy courses. | 04/30/2024 | 3pt |
| # 5 My courses | In this section should be visible user’s all courses, that he bought. | 05/04/2024 | 1pt |
| # 6 Add amount | Non-admin user could add amount for buying courses. | 05/06/2024 | 3pt |
| # 7 Edit/ Delete for courses | Only admin user can edit or delete courses. | 04/12/2024 | 3pt |
| # 8 Exercises | ‘Calculator’, ‘Black Box’, ‘White Box’, ‘Upload’. | 04/15/2024 | 1pt |
| Total Estimation |  |  | 24t |

## Items to Not be tested

|  |  |
| --- | --- |
| **Item Not to Test** | **Comment** |
| Weather | It should be tested later. |
| Home page | It should be tested later. |
|  |  |

## Test Approach(s)

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

**Manual Testing Approach** – The testing team will use Black Box testing, DB testing, API testing, Security testing, Performance testing, Configuration testing techniques.

**Scope of GUI Testing** – Home page, Courses, Exercises, My Courses, User\_Action, Profile page.

**Integration Testing** - Testing team will use integration testing for buying courses. For buying course at first we should add account balance then buy course.

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

**Testing Execution and Bug Tracking** – The testing team will use Jira and Zephyr scale to keep track of their testing progress.

**Bug Severity and Priority Setting** – In Bug reports Bug Severity and Priority settings 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** – Black Box testing, Security testing, DB testing, API testing, Performance testing, Configuration 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 | <06/12/2024> |
| *Test Case preparation* | <06/12/2024> |
| *Test Case review* | <06/12/2024> |
| Manual Testing | <06/13/2024> |
| Automation script preparation | <06/13/2024> |
| Automation code review | <06/13/2024> |
| Regression testing(manual+automation) | <06/13/2024> |

## 

## Staffing / Training Needs

No need

# Risk and mitigation

## Test Risks / Issues

In this section includes any areas that may impede the progress of testing. Basically this section is an outstanding items list for QA.

* Incompletely written requirements
* Constantly changing requirements
* Performance testing
* Security testing
* Time
* Task management
* Insufficient communication between QA, DEV, BA, Client

# Test Environment and infrastructure

## Required Infrastructure

## <https://qwallity-dev.onrender.com/>

## <https://qwallity-prod.onrender.com/>

# Roles and responsibilities

## Roles and assigned responsibilities

|  |  |
| --- | --- |
| **Role** | **Responsibility** |
| Junior QA Engineer | * Create Test Cases * Test Cases execution * Create Bug reports |
| Senior QA Engineer | * Create Test Case Scenarios * Execute User Stories * Check Test cases written by junior QA engineers |
| QA Lead | * Write Test Policy, Test Strategy, Test Plan documents * Clarifies requirements with client * Control all testing process |
| PM | * Manage the whole process |

## 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** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

# 