***<Qwallity app>***

**Test Plan Template**

**Release *<1.0>***

***<20.09.23> - <20.12.23>***

**VERSION HISTORY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID & Version  #** | **Prepared**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| Version 1.0 | *Hovhannes Musikyan* | *20.10.23* | *G. Kh.* | *02.12.23* | *This is the first version* |
|  |  |  |  |  |  |

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**1** **Introduction**

**1.1** **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 app 1.0> 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.

**2** **Test ITEM**

**2.1** **Project description**

The project is the Qwallity app, which is the platform for courses, where the admin user can add/edit/delete the course, and the non admin user can buy the courses.

**2.2** **Items to be Tested / Not to be Tested**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item to Test** | **Test Description** | **Test Date** | **Estimation** |
| User Story # QW-7 | Develop Registration page | 01/10/23 | 13pt |
| User Story # QW-5 | Develop Login page | 10/10/23 | 5pt |
| User Story # QW-12 | Home page | 15/10/23 | 5pt |
| User Story # QW-11 | Profile page | 18/10/23 | 5pt |
| User Story # QW-10 | Account Balance | 22/10/23 | 8pt |
| User Story # QW-14 | Add/Edit/Delete/View course | 28/10/23 | 13pt |
|  |  |  |  |

**2.3** **Items to Not be tested**

|  |  |
| --- | --- |
| **Item Not to Test** | **Comment** |
| Weather | It is integrated API |
| Task2 | Some comment |
|  |  |

**2.4** **Test Approach(s)**

We use manual testing as an approach. Testing types for this product are Functional, UI, Performance, DB, API.

**As a testing Execution and Bug Tracking** tool we will use Zephir scale and Jira to keep track of testing progress.

**QA and BA are responsible for** ensuring that bugs are being prioritized on a regular basis.

**2.5** **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 | <22.09.23> |
| *Test Case preparation* | <25.09.23> |
| *Test Case review* | <08.10.23> |
| Manual Testing | <12.10.23> |
| Automation script preparation |  |
| Automation code review |  |
| Regression testing(manual+automation) | <01.11.23> |

**2.6** **Staffing / Training Needs**

[Describe any specific requirements needed for the testing to be performed (staffing, skills training, etc).)]

Staff: BA, PM, Dev team, QA team

Training: Postman tool training for API testing

**3** **Risk and mitigation**

**3.1** **Test Risks / Issues**

Due to unexpected budget constraints, there is a possibility that the testing team might face limitations in terms of personnel and testing environments. This could lead to delays in test execution and impact the overall testing schedule.

Mitigation Strategies:

* Regularly monitor resource allocation and utilization.
* Prioritize critical test cases to ensure essential functionalities are thoroughly tested even with limited resources.
* Communicate resource constraints to project stakeholders and seek support for additional resources if necessary.

**4** **Test Environment and Infrastructure**

**Required Infrastructure**

Hardware:

* Physical or virtual servers may be required for the application and databases
* Computers for testers to execute tests, debug issues, and perform other testing-related tasks.

Software:

* Operating Systems: The test environment needs to replicate the target production environment. This may involve various operating systems (Windows, Linux, macOS).
* Database Systems: If the application relies on a database, the test environment should include the necessary database management systems (e.g., MySQL, PostgreSQL, Oracle).
* Testing Tools: Tools for testing, performance testing, and other specialized testing activities (e.g., JIRA, Zephyscale, Jmeter, Postman).

**5** **Roles and responsibilities**

**5.1** **Roles and assigned responsibilities**

|  |  |
| --- | --- |
| **Role** | **Responsibility** |
| PM | Create user stories and follow up the tasksS |
| QA | Test the application |
| Developers | Develop the application |

**5.2** **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.).

**5.3**  **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.

**6** **Test Schedule**

**6.1** **Milestones and schedule**

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Milestone** | **Deliverable** | **Effort(Person Hour)** | **Start Date** | **End Date** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |