*<Project Name>*

Test Plan Template

**Release *<Number>***

***<start date> - <end date>***

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 | *Hasmik Zurabyan* | *26.02.2023* | *Ani Movsisyan* | *28.02.2023* | 1 |
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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 App 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

Project enables students to work on real application and to find bugs. Project contains some exercises, courses. Users can login and add, delete or modify courses.

## Items to be Tested / Not to be Tested

|  |  |  |  |
| --- | --- | --- | --- |
| **Item to Test** | **Test Description** | **Test Date** | **Estimation** |
| Login screen | Login functionality, correctness of fields, buttons | 05.03.2023 | 5hh |
| Registration screen | Registration functionality, correctness of fields, buttons | 06.03.2023 | 6h |
| Forget/Change password screen | Sending code, Changing password functionality | 06.032023 | 6h |

## Items to Not be tested

|  |  |
| --- | --- |
| **Item Not to Test** | **Comment** |
| Source code quality | Code standards are used or not (SOLID principles) |
| Application security | The application has vulnerability or not |
| Database | The correctness of schema, integrity etc. |

## 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.]

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

**Automated Testing Approach** – What types of automated tests will be done on this product, what is the automated testing tool to be used, where will the automated tests be documented, etc.

**Testing and Traceability** – How will you ensure that you have implemented a systematic testing approach, what testing documents are traceable back to development documents, etc.

**Scope of GUI Testing** – What parts of the GUI will be tested, will it be automated, etc.

**Integration Testing**  - Is there an integration component to the product in question, what are some of the integration challenges that need to be overcome.

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

**Testing Execution and Bug Tracking** – How will the testing team keep track of their testing progress?

**Bug Severity and Priority Setting** – where are 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** - This shows what a standard testing process looks like.

## 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* | 11.03.2023 |
| *Test Case review* | 14.032023 |
| Manual Testing | <mm/dd/yy> |
| Automation script preparation | <mm/dd/yy> |
| Automation code review | <mm/dd/yy> |
| Regression testing(manual+automation) | <mm/dd/yy> |

## 

## Staffing / Training Needs

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

# Risk and mitigation

## Test Risks / Issues

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

# Test Environment and infrastructure

## Required Infrastructure

[Describe the required infrastructure for test environment]

# 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** |
| Junior tester | Perform tests, communicate with clients, report bugs, work with team members. |
| Senior Tester | Leading the QA team in designing QA test procedures, implementing testing procedures and overseeing the QA procedures, reviewing Quality Assurance reports. Conducting analysis checks on product specifications. Ensuring the successful deployment of products into the market. |
| Project manager | Plan and develop the project idea, monitor project progress and set deadlines, solve issues that arise, manage the money, ensure stakeholder satisfaction, evaluate project performance. |

## 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** |
| Prototype Test Specification | Test Cases/Test data | 2 | 16.03.2023 | 17.03.2023 |
| Prototype Test Execution | Test Results,  Test Defect Reports | 2 | 18.03.2023 | 19.03.2023 |
| Prototype Test Evaluation | Test Evaluation Report | 2 | 20.03.2023 | 20.032023 |

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