*QWALLITY app*

Test Plan

**Release *3***

***24.03.25 – 24.04.25***

VERSION HISTORY

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID & Version #** | **Prepared**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 0001 | *Anna Sargsyan* | *13.01.25* | *Davit Hakobyan* | *15.01.25* | #1 |
| 0002 | Mariam Davtyan | 15.02.25 | *Davit Hakobyan* | 20.02.25 | #2 |
| 0003 | Diana Margaryan | 20.03.25 | *Davit Hakobyan* | 22.03.35 | #3 |

TABLE OF CONTENTS

[**1**](#_heading=h.ue2j6cade7j9) **Introduction 4**

[1.1](#_heading=h.2f0n74aofes2) Purpose of The Test Plan Document 4

[**2**](#_heading=h.y2fkypry8za2) **Test ITEM 4**

[2.1](#_heading=h.3jcw0s5juxiu) Project description 4

[2.2](#_heading=h.mkxwsrwy52v5) Items to be Tested / Not Tested 4

[2.3](#_heading=h.jusmb7ditjs) Items to be excluded 4

[2.4](#_heading=h.a57f95sum2ad) Test Approach(s) 4

[2.5](#_heading=h.stvr3jkcyy1v) Test Deliverables 4

[2.6](#_heading=h.tui8hzxefr7l) Staffing / Training Needs 5

[**3**](#_heading=h.gh037174f26p) **Risk and mitigation 5**

[3.1](#_heading=h.p8wbvdtre4pp) Test Risks / Issues 5

[**4**](#_heading=h.d9ycyrn3az2m) **Test Environment and infrastructure 5**

[4](#_heading=h.jvpx6fv5em2) Required Infrastructure 5

[**5**](#_heading=h.fgr7sgydke52) **Roles and responsibilities 5**

[5.1 Roles and assigned responsibilities 5](#_heading=h.gttn5za8ppnr)

5.2 Test Team Leader………………………………………………………………...7

5.3 Software Tester…………………………………………………………………..8

[**6**](#_heading=h.dnerj5i0se7k) **Test Schedule 8**

[6.1](#_heading=h.76qibkzcesog) Milestones and schedule 9

# 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 3> 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

*Qwallity is a web application designed for junior level QA’s to learn and test their knowledge via app’s functionality, existing exercises.*

## Items to be Tested / Not to be Tested

|  |  |  |  |
| --- | --- | --- | --- |
| **Item to Test** | **Test Description** | **Test Date** | **Estimation** |
| User Authentication | Verify login/signup functionality | 05.03.25 | 8pt |
| Data Entry & Forms | Validate input fields and submission | 10.03.25 | 6pt |
| Account Accesses | Validate permissions | 14.03.25 | 9pt |

## Items to Not be tested

|  |  |
| --- | --- |
| **Item Not to Test** | **Comment** |
| API Performance | Covered in separate testing phase |
| UI Design | Done by UI/UX team |

## Test Approach(s)

The testing strategy includes:

* **Functional Testing:** Ensures core functionalities work as expected.
* **Regression Testing:** Identifies issues from code changes.
* **Usability Testing:** Evaluates user experience.
* **Security Testing:** Verifies authentication mechanisms.
* **Automation Testing:** Regression suite using Selenium.

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

## 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** |
| --- | --- |
| Requirement Review | 01/03/25 |
| Test Case Preparation | 05/03/25 |
| Manual Testing Execution | 15/03/25 |
| Automation Testing Execution | 20/03/25 |
| Final Testing & Bug Fixing | 30/03/25 |

## 

## Staffing / Training Needs

* **Testers:** Knowledge of manual & automation testing.
* **Training:** Familiarity with Selenium and API testing tools.

# Risk and mitigation

## Test Risks / Issue

|  |  |  |
| --- | --- | --- |
| Risk | Mitigation | |
| Delayed Development | Frequent communication with developers | |
| Lack of necessary skills Trainings | |
| Lack of Automation Scripts | Prioritize key scenarios | |

# Test Environment and infrastructure

## 4.1 Required Infrastructure

* **Browsers:** Chrome, Firefox, Opera.
* **Devices:** Desktop, Mobile.

# Roles and responsibilities

## Roles and assigned responsibilities

|  |  |
| --- | --- |
| **Role** | **Responsibility** |
| QA Manager | Oversee test execution and scheduling |
| Test Lead | Assign tasks and manage test strategies |
| Testers | Execute tests, report bugs |

## 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.

## 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** |
| Test Case Creation | Test Scenarios | 40 | 03/01/25 | 03/05/25 |
| Functional Testing | Bug Reports | 60 | 03/06/25 | 03/15/25 |
| Regression Testing | Test Summary | 40 | 03/16/25 | 03/20/25 |