***Qwallity APP***

**Test Plan**

**Release *2***

***10/13/2022 – 11/10/2022***

**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.]*

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| --- | --- | --- | --- | --- | --- |
| **ID & Version #** | **Prepared**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| unique id | *Ernesta Ghukasyan* | *16/10/2022* | *Liana Sedrakyan* | *17/10/2022* | release number |
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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, 2.0v 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**

*This site provides an opportunity to access the program without an admin. It is created to check the actions of the given website. It is a very convenient option for beginners to gain experience by testing the given site.*

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

*[In scope features. This could be newly added or updated features. Indirect features that has technical or functional dependency on newly added or updated features. Out of scope feature. Excluded product features from current Test Plan.]*

|  |  |  |  |
| --- | --- | --- | --- |
| **Item to Test** | **Test Description** | **Test Date** | **Estimation** |
| # 1 "Calculator" section "Reset” button | Enter the "Calculator" section and check whether the "reset" button works correctly or not | 10/13/22> | 10pt |
| # 2 “Black Box” section “Check” button | Enter the "Black Box" section and check if the "Check" button works | <10/14/22> | 10pt |
| # 3 “White Box” section “Calculate” button | Enter the “White Box” section and check if the “Calculate” button is clickable | <10/15/22> | 10pt |

* **Items to Not be tested**

|  |  |
| --- | --- |
| **Item Not to Test** | **Comment** |
| Database | The correctness of schema, integrity etc. |
|  |  |
|  |  |

* **Test Approach(s)**

*A website testing strategy likely to include functional, performance, and security testing types.*

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 | 10/13/22 |
| Test Case preparation | 10/13/22 |
| Test Case review | 10/14/22 |
| Manual Testing | 10/14/22 |
| Automation script preparation | 10/15/22 |
| Automation code review | 10/15/22 |
| Regression testing(manual+automation) | 10/15/22 |

* **Staffing / Training Needs**

*For testing we need a QA manager, automation specialist. We need to test the project within 3 days .*

* **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**

*For testing we should have any devise (computer, phone, notebook etc.). We need testing environment. (link:* [*https://dev-qwallity.herokuapp.com/*](https://dev-qwallity.herokuapp.com/) *)*

* **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 | Junior Tester should write test case and test data.Use testing types, find bugs and report bugs. |
| Senior Tester | Senior Tester should oversee the activities of the quality assurance staff for software companies. The job is to oversee the production of test documents, the creation of test procedures, and to ensure the successful deployment of company products. |
| Project manager | Project Manager should meet with system users to understand the scope of projects.  He or she should work with software developers and project support teams.  Should plan projects, monitor applications and software systems.  Should do stress testing, performance testing, functional testing etc. |

* **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** |
| Requirements gathering. | fulfill the requirements | 3 | 10/13/22 | 10/16/22 |
| Pre-development planning. | carefully study and apply the collected information | 20 | 10/17/22 | 10/21/22 |
| Quality assurance testing. | ensure the highest possible product quality for customers | 20 | 10/22/22 | 10/30/22 |
| User acceptance testing. | customer verification before deploying the software application to a production environment. | 10 | 11/1/22 | 11/5/22 |
| Deployment. | delivery for final use | 2 | 11/7/22 | 11/10/22 |