**Test Plan**

**Project: Computer Database**

[Purpose 1](#_Toc41840532)

[Team members 1](#_Toc41840533)

[Scope 2](#_Toc41840534)

[Scope table 2](#_Toc41840535)

[Testing Types 2](#_Toc41840536)

[Timeline 3](#_Toc41840537)

[Entry Criteria 3](#_Toc41840538)

[Exit Criteria 3](#_Toc41840539)

[Risk Assessment 3](#_Toc41840540)

[Scope risk assessment 3](#_Toc41840541)

[Risk measure tables 4](#_Toc41840542)

[Environment Needs 4](#_Toc41840543)

Purpose

This document describes the plan for testing the Computer Database project. This Test Plan document supports the following objectives:

* Identify existing project information and the software that should be tested.
* List the recommended test requirements (high level).
* Recommend the testing strategies to be employed.
* Identify the required resources and provide an estimate of the test efforts.
* List the deliverable elements of the test activities.
* Identify the risk involved with code changes to design regression test suite
* Automation strategy
* Team members involved in the project

Team members

|  |  |  |
| --- | --- | --- |
| **Name** | **Team member** | **Responsibilities** |
| QA Manager | Testing Manager | Person accountable for conducting quality assurance testing and executing the test plan. |
| QA Lead/ QA Engineer | Project Test Lead | Person responsible for oversight of testing on the project. This person is also accountable for the processes used to ensure the quality of the deliverable; this person is responsible for the quality control of quality assurance. |
| Automation tester | Software Automation tester | Person responsible has understand the requirement and design test procedures and test cases for automated software testing. Design automated test scripts that are reusable. |
| Dev Lead | Project Development Lead | This person translates the business requirements into a technical solution. Because of this responsibility, it is beneficial to have the Technical Lead involved in the planning phase to hear the business requirements from the customer’s point of view and ask questions. |
| PO | Product Owner | The product owner is commonly a lead user of the system or someone from marketing, product management or anyone with a solid understanding of users, the marketplace, the competition and of future trends for the domain or type of system being developed. |

Scope

This Test Plan describes the functional and system tests that will be conducted on the Computer Database following the integration of the subsystems and components identified in the project.

Scope table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bugs/Feature** | **Priority** | **Summary** | **Type** | **Points** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Testing Types

|  |  |
| --- | --- |
| **Type/Environment** | **Definition** |
| Functional testing (**QA**) | The objective is to take unit tested components and build a program structure that has been dictated by design. |
| Regression testing and Automation (**UAT**) | Every time a new module is added leads to changes in the program. This type of testing makes sure that the whole component works properly even after adding components to the complete program. |
| Acceptance testing by PO (**UAT**) | The purpose of this test is to evaluate the system’s compliance with the business requirements and assess whether it is acceptable for delivery. |
| Smoke testing (**PROD)** | This test is done to make sure that software under testing is ready or stable for further testing  It is called a smoke test as a testing initial pass is done to check if it did not catch the fire or smoke in the initial switch on. |

Timeline

|  |  |  |
| --- | --- | --- |
| **Team** | **Start Date** | **End Date** |
| Development |  |  |
| QA Testing |  |  |
| Regression Testing |  |  |
| Release Date |  |  |

Entry Criteria

* When all tickets are ready and deployed on QA environment
* QA environment is up and running

Exit Criteria

* Regression testing passed on UAT
* Automation testing results no additional bugs
* PO has approved the goal of the sprint.

Risk Assessment

Scope risk assessment

Risk assessment from developers for the features worked in this sprint to assess regression test suite design.

* Component on the site, Risk level:
* High: colored with red
* Medium: colored with yellow
* Low: colored with green

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | **Risk** | | |
| High | Medium | Low |
| Add Computer |  |  |  |
| Delete Computer |  |  |  |
| Modify Computer |  |  |  |
| List Computer |  |  |  |

Risk measure tables

|  |  |
| --- | --- |
| **Probability** | |
| High (3) | The feature is highly affected need to tested thoroughly |
| Medium (2) | The feature has lesser impact with the code change |
| Low (1) | The feature has no impact with the code change. Testing not required |

Environment Needs

|  |  |
| --- | --- |
| **Tool** | **Description** |
| PM tool | Tracking tool, requirements tracking |
| QA Management | Creation of test cases, test suit, reports. |
| Automation | Automation Tool |
| Browsers |  |
| Devices |  |