<Project Name>

**Test Plan**

**<Document Version><Date>**

**<Prepared by>**

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**Document Control**

**Document Version History**

This table shows a record of significant changes to the document.

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| --- | --- | --- | --- |
| **Version** | **Date** | **Author (Name/ Position)** | **Description of Change** |
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**Review and Approval History**

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| --- | --- | --- | --- | --- |
| **Version Number** | **Date** | **Author** | **Reviewer** | **Comments** |
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# Introduction:

This Test Plan has been created to communicate the test approach to team members. It describes the appropriate strategies, process, workflows and methodologies used to plan, organize, execute and manage testing of software projects within *<organization name>* and includes the objectives, scope, schedule, risks and approach. This document will demonstrably associate what the test deliverables will be and what is considered in and out of scope.

## Scope:

<Illustrate the current test approach scope based on your role and project goals>

|  |  |
| --- | --- |
| **In Scope** | **Out Scope** |
|  |  |
|  |  |
|  |  |

## Quality Objectives

Primary Objective

A primary objective of testing application systems is to *make sure that the system* fulfills each and every requirement, including quality requirements (Non-functional requirements) and design metrics for each quality requirement and persuade the use case scenarios and maintain the quality of the product***.*** At the end of the project development cycle, the user should find that the project has met or exceeded all their expectations as specified in the requirements.

Any changes, additions, or deletions to the requirements document, Functional Specification, or Design Specification will be documented and tested at the highest level of quality authorized within the remaining time of the project and within the capability of the test team.

Secondary Objective

The secondary objective of testing application systems will be to pinpoint and disclose all issues and associated risks, communicate all known issues to the project team, and get assured that all issues are addressed in an appropriate manner before release. As an objective, this requires careful and methodical testing of the application to first assure that all areas of the system are reviewed and, consequently, all issues (bugs) found are dealt appropriately.

## Assumptions/Risks:

Assumptions

This section lists *<elaborate all the Assumptions here>* that are made specific to this project.

Risks and Mitigation

The following risks *<Elaborate all the risk and their mitigation plans in the table>* have been discovered and the suitable action identified to mitigate their effect on the project. The seriousness of the risk is based on how the project would be affected if the risk was triggered.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Serial #** | **Risk** | **Trigger** | **Impact** | **Mitigations** |
|  |  |  |  |  |
|  |  |  |  |  |

## Project Identification:

The table below identifies the documentation and availability used for developing the test plan:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Document**  **(Version and Date)** | **Created or Available** | | **Received or Reviewed** | | **Author or Resource** | | **Notes** |
| **Yes/No** | **Yes/No** | **Yes/No** | **Yes/No** | **Yes/No** | **Yes/No** |  |
| Functional Specifications |  |  |  |  |  |  |  |
| Requirement Specification |  |  |  |  |  |  |  |
| Design Specifications |  |  |  |  |  |  |  |
| Project Plan |  |  |  |  |  |  |  |
| Prototype |  |  |  |  |  |  |  |
| User’s Manuals |  |  |  |  |  |  |  |
| Business Model or Flow |  |  |  |  |  |  |  |
| Data Model or Flow |  |  |  |  |  |  |  |
| Business Functions and Rules |  |  |  |  |  |  |  |
| Project or Business Risk Assessment |  |  |  |  |  |  |  |
| Use-Case Report |  |  |  |  |  |  |  |

# Test Approach:

Testing will be carried in various stages with different types.

## Testing Stages:

### Unit Testing:

|  |  |
| --- | --- |
| Test Objective: |  |
| Technique: |  |
| Completion Criteria: |  |
| Special Considerations: |  |

### Integrated Testing:

|  |  |
| --- | --- |
| Test Objective: |  |
| Technique: |  |
| Completion Criteria: |  |
| Special Considerations: |  |

### System Testing:

|  |  |
| --- | --- |
| Test Objective: |  |
| Technique: |  |
| Completion Criteria: |  |
| Special Considerations: |  |

### Acceptance Testing:

|  |  |
| --- | --- |
| Test Objective: |  |
| Technique: |  |
| Completion Criteria: |  |
| Special Considerations: |  |

## Testing Types

### GUI Testing:

|  |  |
| --- | --- |
| Test Objective: |  |
| Technique: |  |
| Completion Criteria: |  |
| Special Considerations: |  |

### Functional Testing:

|  |  |
| --- | --- |
| Test Objective: |  |
| Technique: |  |
| Completion Criteria: |  |
| Special Considerations: |  |

### Performance Testing

#### Performance Profiling:

|  |  |
| --- | --- |
| Test Objective: |  |
| Technique: |  |
| Completion Criteria: |  |
| Special Considerations: |  |

#### Load Testing:

|  |  |
| --- | --- |
| Test Objective: |  |
| Technique: |  |
| Completion Criteria: |  |
| Special Considerations: |  |

### Configuration Testing:

|  |  |
| --- | --- |
| Test Objective: |  |
| Technique: |  |
| Completion Criteria: |  |
| Special Considerations: |  |

### Installation Testing:

|  |  |
| --- | --- |
| Test Objective: |  |
| Technique: |  |
| Completion Criteria: |  |
| Special Considerations: |  |

### Browser Testing:

|  |  |
| --- | --- |
| Test Objective: |  |
| Technique: |  |
| Completion Criteria: |  |
| Special Considerations: |  |

# Test Deliverables

The following are the test deliverables:

1. Test Plan
2. Test Case
3. Summary Report
4. Deployment Guide
5. Developer’s Manual

# Environmental Needs

## Hardware:

|  |  |
| --- | --- |
| **Machine** | **Configuration** |
| Server |  |
| Client |  |

## Software:

|  |  |  |  |
| --- | --- | --- | --- |
| **Machine** | **OS** | **Browser** | **Software required for testing** |
| Server |  |  |  |
| Client |  |  |  |

## Tools:

|  |  |  |
| --- | --- | --- |
| **Tools Required** | **Contact Person** | **Relates to** |
|  |  |  |
|  |  |  |

# Staffing

## Responsibilities:

|  |  |  |
| --- | --- | --- |
| **Responsibilities** | **Team Member** | **Role** |
| Test Plan |  |  |
| Test Case |  |  |
| Manual Testing |  |  |
| Automated Testing |  |  |

## Training:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Training/ learning Area** | **Relates to** | **Target Group/ Individual** | **Given By** | **Start Date** | **End Date** | **Duration** |
| 1. |  |  |  |  |  |  |
| 2. |  |  |  |  |  |  |
| 3. |  |  |  |  |  |  |
| 4. |  |  |  |  |  |  |
| 5. |  |  |  |  |  |  |

# Acceptance Criteria:

Acceptance Criteria is a list of statements which indicates the result that is pass or fail for both functional and non-functional requirements of the project at every stage. These functional and non-functional requirements are the conditions which are listed in the acceptance criteria. There is no partial acceptance in acceptance criteria, it is either passed or failed. These are the mandatory conditions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Functional Criteria** | **Non-functional Criteria:** | **Performance Criteria** | **Pass** | **Fail** |
| 1. | 1. | 1. |  |  |
| 2. | 2. | 2. |  |  |
| 3. | 3. | 3. |  |  |

# Entry and Exit Criteria

## Entry Criteria

* Each test hardware platform must have been successfully installed.
* All required documentation, design, and requirements information should be available that will authorize the testers to operate the system and determine the correct behaviour.
* All the standard software tools including the testing tools must have been successfully installed and functioning properly.
* Proper test data is available.
* The test environment which includes Software, Hardware, Lab functioning and System administration support should be ready.
* QA resources have completely understood the requirements.
* QA resources have sound knowledge of functionality.
* Reviewed test scenarios and test cases.

## Exit Criteria

* A definite level of requirements coverage has been achieved.
* No high priority or severe bugs are left to be resolved.
* All high-risk areas have been fully tested, with only small residual risks left outstanding.
* Cost, when the budget has been spent.
* The schedule has been achieved.

<List down the Entry and Exit Criteria specific to the client’s requirement>

|  |  |
| --- | --- |
| **Exit Criteria** | **Entry Criteria** |
|  |  |
|  |  |

# Suspension Criteria And Resumption Requirements

## Suspension criteria

* The build contains many serious defects which hampers the testing progress.
* Significant change in requirements suggested by client.
* Software/Hardware problems.
* Assigned resources are not available when required by test team.

## Resumption requirements

Resumption will only occur when the problem(s) that caused the suspension have been resolved.

# Schedule and Milestones/ Deliverables

## Test Schedule:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Task Name** | **Task Description** | **Start Date** | **End Date** | **Estimated Efforts**  **(Hrs./Days)** | **Notes** |
| Requirement Documents Review |  |  |  |  |  |
| Test Planning |  |  |  |  |  |
| Initiation of test estimation |  |  |  |  |  |
| Staffing and Training new test resources |  |  |  |  |  |
| Initial Deployment to QA test Environment |  |  |  |  |  |
| Functional Testing- Iteration 1 |  |  |  |  |  |
| Functional Testing- Iteration 2 |  |  |  |  |  |
| System testing |  |  |  |  |  |
| UAT |  |  |  |  |  |
| Regression Testing |  |  |  |  |  |
| Resolution of final Issues and final Builds |  |  |  |  |  |
| Deployment to Stage Environment |  |  |  |  |  |
| Performance Testing |  |  |  |  |  |
| Release to Production |  |  |  |  |  |

## Milestone/Deliverables:

|  |  |  |
| --- | --- | --- |
| **Deliverables** | **Responsible Person** | **Milestone/Date** |
| **Test plan** |  |  |
| **Test Strategy** |  |  |
| **Test Cases** |  |  |
| **Traceability Matrix** |  |  |
| **Test Result** |  |  |
| **Test Status Report** |  |  |
| **Metrics** |  |  |

# Approvals:

|  |  |  |
| --- | --- | --- |
|  | **Project Manager** | **Quality Manager** |
| **Name** |  |  |
| **Signature** |  |  |