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[Name *of Customer/Program Manager*]

Revision History

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*[Note: Contents in italics in every section within ‘[ ]’ is for expressing the intent of the information expected in that section. Users of the template should read the text carefully, understand and substitute the text with appropriate information. There would be some examples in such text, which intend to inform the user of the template, the type and extant information expected to be written in that section. After the vitalized information in the square brackets is understood, please delete the same including the square brackets.]*

*[Additional authors and approvers, if needed, may also be identified by adding more rows to the above tables]*

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# INTRODUCTION

## Purpose

*[Mention the objectives of the test plan. Brief description in about 5-7 lines of the software to be tested.]*

## Scope

*[Brief description about the phases like unit/module/integration and system testing. If it is an object oriented/component based project clearly identify what shall be considered in module testing phase and what in integration testing phase. Features to be covered, Features not be covered. Also identify the risks like any software item which is not included in testing and why, and contingency measures if any. Specify how the requirements of items left out of testing will be verified. Mention assumptions and constraints if any]*

## Definitions, Acronyms, and Abbreviations

[*Expand all the abbreviations and acronyms, used in this plan. Also define all those terms used in this plan for clarity purposes.*]

| **Term / Abbreviation** | **Description** |
| --- | --- |
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## Target Audience

*[Mention the persons for whom the test plan is intended, e.g. Test Engineer, Developers, Project Leader, etc.]*

## References

*[Links to following documents,*

*- Software Development Plan*

*- Software Requirement Specification*

*- Design Specification and any others useful to understand the test plan*

* *Test Specifications if available*]

# Test Description

## Overall Approach

*[****Requirements:*** *Mention in brief the requirements to be tested like functional test requirements (e.g. all-important functions), Nonfunctional requirements, design test requirements (e.g. user interface, menu structures or other forms of design elements) and integration test requirements (e.g. interactions between components).*

***Fault model****: Describe the fault model that shall be used in the test strategy.*

***Special Considerations****: unique or necessary system setup, data or other test dependencies, environment conditions.]*

## Test Environment

*[Specify the hardware, software, networking and test tool environment required for the entire testing activities. Specify any special requirements, if any, e.g. stubs, etc. ]*

## Test Stop / Suspension/Resumption Criteria

*[Clearly indicate test stop criteria to conclude the test cycles or Conditions that exists to decide on Test Suspensions and conditions that will decide resumptions. It could be like*

*- Target number of defects to be found for given code size and closed*

* *3 cycles of system testing by independent test engineer with the last cycle without any major defects*
* *X number of Software Crashes in Key features.*
* *Number of high severity defects solved.]*

## Test strategies for Unit, Module, Integration and System Testing

***[Test Strategy****: Use this section to describe how the test objectives are met for each of testing phase that are parts of the test plan: Unit, Module, Integration, system (configuration and installation testing to be included), performance, stress and nonfunctional requirements. For each of the above detail the following*

***Objective****: The overall objective this strategy is designed to meet.*

***Technique****: Explain the development of test cases, tools that will be used for testing, how the test cases will be executed and the test data to be used. Also mention here if tests are to be conducted in cycles or in concert with other testing efforts. Mention the exit criteria for each phase.]*

### Unit Testing

*[Give the details as above for unit testing]*

### Module Testing

*[Give the details as above for module testing]*

### Integration Testing

*[Give the details as above for integration testing]*

### System Testing

*[Give the details as above for system testing]*

### Performance Testing

*[Specify performance requirements of the software and explain how the performance testing shall be done.]*

### Stress Testing

[Specify the stress- testing requirement. Projects can take deviations with valid justification]

### Non-Functional Requirements Testing

[Specify the Nonfunctional Requirements like usability, portability and interoperability and explain how these will be tested.]

## Memory leak Test

[Proper tool has to be used for testing memory leaks. Ensure that there are no memory leaks. Memory leak test report has to be submitted. Module and integration test cases have to be run through the memory leak test tool]

## Coverage Criteria

*[Specify the coverage tool and the coverage criteria. Recommended coverage is as below*

* *Line coverage - 100% at module and integration levels. If not achieved give valid justification.*
* *Branch coverage - 80% at module and integration levels. . If not achieved give valid justification. In component testing it could be that all the interfaces and events are exercised at least once*
* *Functional coverage - 100% at module and integration levels and is mandatory*
* *In case of feature enhancement or maintenance projects no particular coverage criteria (in terms of a numerical value) is set. The coverage report will need to be analyzed to see the adequacy of the covered lines resulting from the changes made. Note that running a coverage tool is mandatory]*

## Defect Tracking and Reporting

[Document the tool used for logging the defects. List any reports to be produced. Identify the team members involved in the defect tracking process.

Describe the categorization of defects e.g. which are the defects that shall be considered as major in the project and which ones will be considered minor.]

## Risks and Contingencies

*[Specify the risks and contingencies planned in the testing activities of the project]*

## Schedule and Resources

*[Specify the time estimated for each testing activity, the hardware and software resources required, the human resources required and their period of use. Also, identify milestones and review dates]*

### Test team and responsibilities

*[Specify the test team members and their responsibilities. Identify the team members responsible for designing, developing and executing the test cases]*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Item** | **Test Plan Preparation Responsibility** | **Planned Date for Plan** | **Test Development Responsibility** | **Planned Date for Development** | **Test Execution Responsibility** | **Planned Date for Execution** |
|  |  |  |  |  |  |  |

### Training

*[Specify any training needs for the test team in the following table]*

|  |  |  |
| --- | --- | --- |
| **Trainee** | **Training Area** | **Planned Date** |
|  |  |  |

# Test Deliverables

*[Mention the test deliverables here like Test Specifications, Test Cases, Test Plan, Test Scripts, Stubs, Drivers, Applications, tools and utilities etc.]*