Test Strategy for

Project name

Prepared by <author name>

[Pick the date]

[Type the abstract of the document here. The abstract is typically a short summary of the contents of the document. Type the abstract of the document here. The abstract is typically a short summary of the contents of the document.]
## Approval

<table>
<thead>
<tr>
<th>AUTHOR</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;name&gt;</td>
<td>&lt;position&gt;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>APPROVED BY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;name&gt;</td>
<td>&lt;position&gt;</td>
</tr>
</tbody>
</table>

## ACKNOWLEDGMENT

<enter text>

## Related Documents

<table>
<thead>
<tr>
<th>Ref #</th>
<th>Document Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>High level system architecture</td>
</tr>
<tr>
<td>02</td>
<td>Project brief</td>
</tr>
<tr>
<td>03</td>
<td>Infrastructure design.. etc</td>
</tr>
</tbody>
</table>

## Glossary

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bug</td>
<td>See Defect</td>
</tr>
<tr>
<td>Defect</td>
<td>Software function does not work as per specification</td>
</tr>
<tr>
<td>Defect Owner</td>
<td>The person who created the defect</td>
</tr>
<tr>
<td>Issue</td>
<td>Software function does not work as expected or is not specified</td>
</tr>
<tr>
<td>RDT</td>
<td>Requirement Driven Testing</td>
</tr>
<tr>
<td>SDLC</td>
<td>Software Development Life Cycle</td>
</tr>
<tr>
<td>SME</td>
<td>Subject Matter Expert</td>
</tr>
<tr>
<td>TDD</td>
<td>Test Driven Environment</td>
</tr>
<tr>
<td>UAT</td>
<td>User Acceptance Testing</td>
</tr>
</tbody>
</table>
# Contents

Approval..................................................................................................................................................2
Related Documents........................................................................................................................................2
Glossary................................................................................................................................................2
Introduction ............................................................................................................................................4
  Purpose ...............................................................................................................................................4
  Project Overview ................................................................................................................................4
  Testing objectives ...............................................................................................................................4
  Test Process .......................................................................................................................................5
Test levels and test types ........................................................................................................................6
  Test levels ..........................................................................................................................................6
  Test types ..........................................................................................................................................6
Pass/fail criteria .....................................................................................................................................7
  Entry Criteria ....................................................................................................................................7
  Exit Criteria .......................................................................................................................................7
Project Conditions .................................................................................................................................8
  Assumptions ......................................................................................................................................8
  Constraints .........................................................................................................................................8
Proposed testing approach ......................................................................................................................9
  Requirement Driven Testing ...............................................................................................................9
  Risk assessment .................................................................................................................................9
  Test iterations and deadlines .............................................................................................................9
  Defect Management .........................................................................................................................9
  Test Environment .............................................................................................................................10
  Managing Test Environment ...........................................................................................................10
  Release management .......................................................................................................................10
  Testing risks and mitigation ..............................................................................................................10
  Test reports and sign off procedure .................................................................................................10
  Staff Resources ...............................................................................................................................10
Appendix ...............................................................................................................................................11
Introduction

Purpose
This document is a high level presentation of the test approach to be undertaken in relation to the <project name>. Once formally accepted by <business owner or delegated users>, this document will be used as a reference by <your team> to develop a Test Plan with details of test activities resourcing and schedules.

After reading this document, the reader will have a good understanding of:

• The objectives of software testing
• Test activities in different stages of the project lifecycle
• The different test levels and test types
• Entry and exit criteria including reporting
• Requirement Driven Testing (RD) approach
• Creating and maintaining test artefacts
• Key testing processes and procedures

This Test Strategy will underpin all subsequent testing activities and as such is presented for <business owner> for sign off as approval of the proposed approach. Formal approval will enable more detailed test planning and management to begin in earnest.

Project Overview
<enter project overview, business problem(s) or benefit(s) for the implementation>

Testing objectives
<describe the objectives i.e validate and verify system functionality works to specified requirements. Provide confidence for business owner that the solution meet business needs .. etc>
**Test Process**

The following diagram shows the high level test management activities throughout the Software Development Life cycle. These activities are shown in their logical order but might be repeated due to scope or resource changes.

With the exception of the ‘Test Closure’ phase and ‘Planning’ phase, all other phases in this diagram should be implemented for each level of testing. Details of test types will be explained in latter section.

<mention here how business owners and/or business users participate at various times in the testing process>

To ensure the delivery items are in line with business objectives and requirements, the following key documents are to be approved by <business owner> (if possible before writing test cases):

1. Test Strategy (this document)
2. Business requirement documentation
3. Acceptance criteria
4. <add more>

---

Ref: ISTQB Fundamental Test Process
Test levels and test types

This section describes the relationship between different test levels and test types which need to be included for different development phases.

Test levels

Test levels are used to split testing phase into logical phases and set clear boundaries for each level of testing. In most 3-tier applications there are 3 different levels of testing to focus on:

- Component testing
- System testing
- And User Acceptance Testing (UAT)

Component testing relates to the testing of individual software components...

System testing is looking the behaviour of a whole system for given scenarios. This is usually applying business processes in an environment that mirrors production as closely as possible.

Finally, the business owner takes part in UAT to establish confidence in the system. The business owner might choose to create test cases independently or use existing test cases. The frequency and extent of UAT varies for different projects.

Test types

Test type is about applying the appropriate type of testing method to verify specific business requirements. For example, usability and compatibility testing is required for public facing website.

<table>
<thead>
<tr>
<th>Test Types</th>
<th>Component Testing</th>
<th>System Testing</th>
<th>UAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static test</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Functional test</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Non-functional test</td>
<td></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Security test</td>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Negative test</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Regression test</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 1 - Test levels and test types

<add text explaining each test type if required>
Pass/fail criteria

Test Scripts will be developed as a part of every test case. The test scripts will contain test steps, expected results, pass criteria and fail criteria.

Broadly speaking, deviation from what is written in a functional / technical specification will be considered a defect. A defect might not always result in failure.

Where a defect is identified, a defect record will be raised for each deviation between the test result and the expected result recorded in the test scripts, which are in turn based on the relevant functional / technical specification.

If the incident is investigated and found not to be an error, the defect will be assigned back to the owner for closure.

If the incident is found to be a genuine error, it will be prioritised based on input from the relevant developers and testers. If discussion on the incident priority cannot reach agreement it will be escalated to the Test Manager and Project Manager(s) for a decision.

Entry Criteria

The following conditions are preferred before any testing can begin:

- Business requirement documentation is signed off by business owner
- Segments of development code are unit tested before released to the test environment
- Test artefacts are up to date and prioritised according to risk based analysis
- Test environment must be ready and accessible
- Actions for outstanding issues are finalised and assigned to the correct area
- Technical resources have been allocated and are available for support
- <add more>

Exit Criteria

These are the minimum acceptable conditions before promoting the SBR solution to a live production environment:

- There are no outstanding high priority issues
- All Test Cases with a high and medium priority have been successfully executed
- Test coverage of <??>% has been completed
- Approval to proceed to production environment received from <key stakeholders>
- During the course of the testing, certain tests (and by extension certain pieces of functionality) may not be tested due to project’s constraint. If tests cannot be executed, approval will be sought from the Test Manager and Project Manager(s) and this will be recorded, as well as the reasons why, in the appropriate test report
- <add more>
Project Conditions

Assumptions
The following assumptions have been made in preparing this test strategy:
  • The test environment will be available at the start of the testing period
  • Technical resources will be available to provide support for the resolution of project issues/defects
  • All business requirements will be finalised, documented and incorporated into the documents which form the test base prior to the start of testing
  • <add more>

Constraints
The ability for the test team to deliver appropriate test coverage is contingent upon the following factors. Where additional constraints to successful testing are identified i.e.<give example>, they will be formally documented and managed by <who> as part of the testing project management process
  • There are no significant changes in priorities that require redeployment of resources
  • The project scope remains relatively stable
  • The test team is notified promptly of any changes in project scope so that impacts on testing can be properly assessed
  • Development work is progressed and delivered within timeframes that enable full and detailed testing to take place
  • The test team must be notified as soon as possible of any delays, potential or actual, in the project implementation so that resource allocation can be assessed
  • <add more>
Proposed testing approach

**Requirement Driven Testing**
Draw a testing work flow to include activities from

- Business Analyst
- Developers
- Tester
- Business users

<visit www.requirementdriventesting.com for more information>

**Risk assessment**
A testing risk assessment is used to prioritise test cases based on the following criteria:

1. the priority classification of business requirements to select which test cases to execute
2. the likelihood of code changes or new functionality affecting existing functionality

Once priorities have been assigned to test cases, test resources can be allocated and managed to ensure that they are deployed to the areas of most importance

<add more text>

**Test iterations and deadlines**
Test iterations will follow development iterations and key project milestones. The test plan will prioritise testing and include dates.

<liaise with your team and add notes here>

**Defect Management**
The detection, management and resolution of defects will be properly recorded and progressed using <your defect management testing tool i.e. HP Quality Center>

All defects must be assessed to determine a severity level as described in the table below.

<table>
<thead>
<tr>
<th>Severity</th>
<th>Severity Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>High *</td>
<td>The module/product crashes or ... &lt;enter your description&gt;</td>
</tr>
<tr>
<td>Medium *</td>
<td>Major system component unusable ... &lt;enter your description&gt;</td>
</tr>
<tr>
<td>Low *</td>
<td>Incorrect or incomplete ... &lt;enter your description&gt;</td>
</tr>
</tbody>
</table>

Table 2 - Defect Severity

The following diagram shows defect management workflow for different stages:
<draw defect work flow that suits your organisation i.e. from New > Active > Resolved > Closed>
**Test Environment**
<provide information about your test environment, liaise with infrastructure team/network team>

**Managing Test Environment**
<provide information how to manage test environment, liaise with infrastructure team/network team>

**Release management**
<provide information how deployment are managed especially if you have different components with different versions. Write this section in conjunction with “Managing Test Environment” above>

**Testing risks and mitigation**
<provide information about project and/or product risks you can identified that might have adverse impact>

**Test reports and sign off procedure**
<provide info who will be preparing reports, how often and when>

**Staff Resources**
<provide information how resource that will be involved in testing lifecycle, how many, how to engage with each person, specific skill requirements .. etc>
Appendix

<add screenshots, templates, form that relates to testing or test software will be used>