Project Name X.X

Test Plan

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*[Blue italic text is a comment and recommendation to this document.* *Green italic text is an example text. All this colored text should be replaced or deleted.]*

Table of Contents

[1.Introduction 5](#__RefHeading__4609_2041490419)

[2.Release Information 5](#__RefHeading__4611_2041490419)

[3.Approval Information 5](#__RefHeading__4613_2041490419)

[4.Test Schedule and Milestones 5](#__RefHeading__4615_2041490419)

[5.Test Scope 6](#__RefHeading__4617_2041490419)

[New features to be tested 6](#__RefHeading__4619_2041490419)

[Main functionality and previous features to be tested 6](#__RefHeading__4621_2041490419)

[Features not to be tested 6](#__RefHeading__4623_2041490419)

[6.Test Strategy 6](#__RefHeading__4625_2041490419)

[Quality Goal 6](#__RefHeading__4627_2041490419)

[Testing types 6](#__RefHeading__4629_2041490419)

[Environment for testing 7](#__RefHeading__4631_2041490419)

[Responsibilities 7](#__RefHeading__4633_2041490419)

[7.Test Runs 8](#__RefHeading__4635_2041490419)

[Feature Tests 8](#__RefHeading__4637_2041490419)

[Bug fixing / verification\_regression testing 8](#__RefHeading__4639_2041490419)

[Release Candidate Testing 8](#__RefHeading__4641_2041490419)

[8.Release Criteria 8](#__RefHeading__4643_2041490419)

[9.Application testing results 8](#__RefHeading__4645_2041490419)

[Testing results 8](#__RefHeading__4647_2041490419)

[Testing statistics 9](#__RefHeading__4649_2041490419)

[Bug statistics 9](#__RefHeading__4651_2041490419)

[10.QA Release statement 9](#__RefHeading__4653_2041490419)

[11.Code freeze time 9](#__RefHeading__4655_2041490419)

[12.Release risks 9](#__RefHeading__4657_2041490419)

[13.Test Logistics 10](#__RefHeading__4659_2041490419)

[Software Tools and Data 10](#__RefHeading__4661_2041490419)

[Human Resources 10](#__RefHeading__4663_2041490419)

[Hardware Resources 10](#__RefHeading__4665_2041490419)

[14.Test Procedures 11](#__RefHeading__4667_2041490419)

[Defect Reporting 11](#__RefHeading__4669_2041490419)

[Test Progress Meeting 11](#__RefHeading__4671_2041490419)

[Test Case Review 11](#__RefHeading__4673_2041490419)

[Test Suspension - Resumption Criteria 11](#__RefHeading__4675_2041490419)

1. Introduction

The present Test Plan describes the strategy and methods of testing, which will be used by QA Software Engineer to confirm the quality of the product. The document can be elaborated during the project and if there is additional information.

1. Release Information

|  |  |
| --- | --- |
| Release Date | Release Number |
| XX.XX.XXXX | Release xx.xx (build - xxxx) |

1. Approval Information

|  |  |
| --- | --- |
| Created/Changed by QA: |  |
| Approved by PM: |  |

1. Test Schedule and Milestones

[List here the rough test schedule with dates to make the order of test activities clear]

|  |  |  |
| --- | --- | --- |
| **Phase** | **Start Date** | **End Date** |
| Feature Tests |  |  |
| Bug fixing/verification\_regression |  |  |
| Release Candidate |  |  |
| Release Candidate\_<production server> |  |  |

1. Test Scope
   1. New features to be tested

*[Provide a list of the new project’s features and defects that should be developed and tested as a goal of the current release]*

* …
  1. Main functionality and previous features to be tested

*[Provide a list of main functionality and previous features that should be tested to provide the stability of application]*

* …
  1. Features not to be tested

All the features and functionality that are not listed above will not be tested.

*[You can list some features and functionality that should be emphasized as not to be tested]*

* …

1. Test Strategy

This chapter describes the recommended testing approach and gives the answers for the questions like how the project will be tested and why such strategy being implemented. It also enumerates required testing techniques and specific environment that should be created in order to perform testing properly.

* 1. Quality Goal

Testing should make sure that all new improvements are implemented with high quality and have no negative effect on existing functionality.

* 1. Testing types

*[The following test techniques are recommended (tests types can be added or removed as required)]*

Types of testing that will be performed for the version:

* ***Integration testing -*** *Testing of integrated modules to verify combined functionality after integration.*
* *Sanity testing - Testing to determine if a new software build is performing well enough to accept it for a major testing effort.*
* *System testing - Entire system is tested as per the requirements. System testing contains:*
  + ***Functional testing -*** *Testing functional requirements of software.*
  + *Performance testing – The objective is to check whether system meets performance requirements.*
  + *Stress and Load testing - System is stressed beyond its specifications to check how and when it fails.*
  + *Recovery testing - Testing how well a system recovers from crashes, hardware failures, or other catastrophic problems.*
* *Regression testing - Testing the application as a whole for the modification in any module or functionality. Regression Test includes all relevant tests for this project. Tests are grouped according to their priority and executed according to the schedule. Automatic tests are run on this testing phase.*
* *Acceptance testing - It’s a selection of tests to check the main functionality and some specific items.*
  1. Environment for testing

All test cases should be run using the following environments:

* *Clean Windows 7 with Firefox 12 installed*
* *Clean Windows XP SP2 with Internet Explorer 7.0 with last updates installed*
* *Clean Windows 7 with Internet Explorer 9.0 with last updates installed*
* *MacOs with Safari*
* …
  1. Responsibilities

QA:

* Test cases creation in Redmine;
* Update all available automatic and manual tests;
* Running test cases from Redmine;
* Bug tracking;
* Provide weekly update to QA manager, PM on status of testing.

1. Test Runs

Here the test sets of Redmine are introduced that should be run during the release phases.

Reference to the corresponding Redmine:

* 1. Feature Tests

The objective of these tests is to verify the new feature functionality and ensure that new implemented feature meets the requirement specification. All tests should be run on Windows XP system with Firefox 2.0.0.X installed.

FV

* 1. Bug fixing / verification\_regression testing

This task will test the **integrated** project. The test set includes *all* relevant tests for this project. All tests should be run on Windows XP SP2 system with IE 8.0 installed. Test-cases to be used at this phase are located in BFV\_Regression:

* 1. Release Candidate Testing

Test set must be run on the **frozen build**. All tests should be run on Windows XP SP2 system with Internet Explorer 7.0, acceptance tests should be run on MacOs with Safari. Test-cases to be used at this phase are located in the folder:

* RC
* RC\_Sanity check\_production server

1. Release Criteria

* All the new release features were implemented and tested successfully.
* Regression tests were passed.
* There are no open critical bugs.
* There are no a lot of unverified bugs.
* Code freeze testing were performed fully and successfully. Necessary time for code freeze is 4 hours.

1. Application testing results
   1. Testing results

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test set** | **Number** | **Passed** | **Failed** | |
| Critical | Not critical |
| FV |  |  |  |  |
| BFV\_Regression |  |  |  |  |
| RC |  |  |  |  |
| RC\_Sanity check\_prod server |  |  |  |  |

* 1. Testing statistics

|  |  |
| --- | --- |
| **Total tests in database** | **Test cases coverage (%)** |
|  |  |

* 1. Bug statistics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Unresolved bugs** | | **Resolved bugs** | | **Reopened bugs** | **Verified bugs** |
| **Critical** | **Not critical** | **Critical** | **Not critical** |
|  |  |  |  |  |  |

1. QA Release statement

QA statement criteria are defined in chapter #8.

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **QA recommendations** | **Comments** |
| XX.XX.XXXX |  | *- Delivery can be offered for customer*  *- Delivery can be offered for customer with risks*  *- Delivery can’t be offered for customer* |  |

1. Code freeze time

|  |  |
| --- | --- |
| **From** | **To** |
| XX.XX.XXXX – XX:XX | XX.XX.XXXX – XX:XX |

1. Release risks

*[Identify high risks assumptions of the test strategy and risks in the project and specify a contingency plan for each. Possible risks include focusing on one platform for testing, using new technologies, many new developers/testers in the project, tough timescale, etc.]*

1. *Impossible to test a lot of functionality on the production server due to the change of real data or making payments on the production is forbidden.*
2. *Performance tests were not executed.*
3. *Feature#x , feature#y were not tested fully on Safari, IE7.*
4. *Impossible to test feature#x on real configuration that will be used.*
5. *Impossible to test the necessary scope of functionality (point #5) because of lack of time for Code Freeze.*
6. *Only the scope from test plan point #5 was tested, other old features were not checked and can be in risk due to release changes.*
7. Test Logistics
   1. Software Tools and Data

List of tools required to perform test activities:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Tool, Data** | **Vendor/In-house** | **Version** |
| Test Management | **Redmine** | **Codetiburon** | **1.1** |
| Test Automation | *QTP* | **Codetiburon** | **9.5** |
| Test Automation | *Load**Runner* | **Codetiburon** | **9.1** |
| Defect Tracking | **Redmine** |  | **1.1** |

* 1. Human Resources

[List the human resources that will be involved in testing, including any support team.]

QA team consists of:

* QA Senior Engineer
* 2 QA Engineers
  1. Hardware Resources

*[List the computer hardware resources that will be used to perform testing.]*

* QA test machine.
* *… virtual server*
* *… production server*

1. Test Procedures
   1. Defect Reporting

When defect is found, QA engineer contributes a new bug into the Redmine database with the description of how to reproduce it or reopen the existing one.

* 1. Test Progress Meeting

Regular daily project team meeting will be held to discuss the test progress.

* 1. Test Case Review

PM provides test cases review at least once before “Code Freeze” milestone.

* 1. Test Suspension - Resumption Criteria

If any defects are found which seriously impact the test progress, the QA may choose to Suspend testing. The criteria that will justify test suspension are:

* Hardware/Software is not available in the time indicated in the project schedule.
* Source code contains one ore more critical defects, which seriously prevent or limit testing progress.

If testing was suspended, resumption will only occur when the problems that caused suspension were resolved and a new build is provided for testing.