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**Test Plan**

**Project “The Internet”**

Document Revision History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date | Version | Description | Author | Reviewer | Approver |
| 31.05 | 1.0 | Test plan was created | Shraddha Pandey |  |  |
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|  |  |  |  |  |  |

## 1 INTRODUCTION

Customer wants a perfect website, which passed the full cycle of manual testing. Given the specificity of the site it is very important to have the same quality and the site.

The Test Plan has been created to facilitate communication within the team members. This document describe approaches and methodologies that will apply to the unit, integration and system testing of the "https://the-internet.herokuapp.com/challenging\_dom". It includes the objectives, test responsibilities, entry and exit criteria, scope, schedule major milestones, entry and exit criteria and approach. This document has clearly identified what the test deliverables will be, and what is deemed in and out of scope.

## 2 SCOPE

The document mainly targets the GUI testing and validating data in report output as per Requirements Specifications provided by Client.

2.1 Functions to be tested.

* GUI
* Edit and Delete Logic
* Buttons

2.2 Functions not to be tested.

1. No other than mentioned above in section 2.1

## 3 QUALITY OBJECTIVES

#### 3.1 Primary Objectives

A primary objective of testing is to: assure that the system meets the full requirements, including quality requirements (functional and non-functional requirements) and fit metrics for each quality requirement and satisfies 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 of their expectations as detailed 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 allowed within the remaining time of the project and within the ability of the test team.

#### 3.2 Secondary Objectives

The secondary objectives of testing will be to: identify and expose all issues and associated risks, communicate all known issues to the project team, and ensure that all issues are addressed in an appropriate matter before release. As an objective, this requires careful and methodical testing of the application to first ensure all areas of the system are scrutinized and, consequently, all issues (bugs) found are dealt with appropriately.

## 4 TEST APPROACH

The approach, that used, is Analytical therefore, in accordance to requirements-based strategy, where an analysis of the requirements specification forms the basis for planning, estimating and designing tests. Test cases will be created during exploratory testing. All test types are determined in Test Strategy.

Team also must use experience-based testing and error guessing utilize testers' skills and intuition, along with their experience with similar applications or technologies.

The project is using an agile approach, with weekly iterations. At the end of each week the requirements identified for that iteration will be delivered to the team and will be tested.

#### 4.1 Test Automation

Automated unit tests are part of the development process, and UI smoke-tests from previous releases must be also automated during which performance data must be captured.

## 5 ROLES AND RESPONSIBILITIES

|  |  |  |
| --- | --- | --- |
| Role | Staff Member | Responsibilities |
| Project Manager |  | 1. Acts as a primary contact for development and QA team. 2. Responsible for Project schedule and the overall success of the project. |
| QA Lead |  | 1. Participation in the project plan creation/update process.  2. Planning and organization of test process for the release. 3. Coordinate with QA analysts/engineers on any issues/problems encountered during testing.  4.Report progress on work assignments to the PM |
| QA |  | 1. Understand requirements 2. Writing and executing Test cases 3. Preparing RTM 4. Reviewing Test cases, RTM 5. Defect reporting and tracking 6. Retesting and regression testing 7. Bug Review meeting 8. Preparation of Test Data 9. Coordinate with QA Lead for any issues or problems encountered during test preparation/execution/defect handling. |

## 6 ENTRY AND EXIT CRITERIA

**6.1 Entry Criteria**

* All test hardware platforms must have been successfully installed, configured, and functioning properly.
* All the necessary documentation, design, and requirements information should be available that will allow testers to operate the system and judge the correct behavior.
* 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 such as, lab, hardware, software, and system administration support should be ready.
* QA resources have completely understood the requirements
* Reviewed test scenarios, test cases and RTM
* QA resources have sound knowledge of functionality

**6.2 Exit Criteria**

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

## 7 SUSPENSION CRITERIA AND RESUMPTION REQUIREMENTS

### 7.1 Suspension criteria

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

### 7.2 Resumption criteria

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

# 8 TEST STRATEGY

### 8.1 QA role in test process

* Understanding Requirements:
  + Requirement specifications will be sent by client.
  + Understanding of requirements will be done by QA

* Preparing Test Cases:

QA will be preparing test cases based on the exploratory testing. This will cover all scenarios for requirements.

* Preparing Test Matrix:

QA will be preparing test matrix which maps test cases to respective requirement. This will ensure the coverage for requirements.

* Reviewing test cases and matrix:
* Peer review will be conducted for test cases and test matrix by QA Lead
* Any comments or suggestions on test cases and test coverage will be provided by reviewer respective Author of Test Case and Test Matrix
* Suggestions or improvements will be re-worked by author and will be send for approval
* Re-worked improvements will be reviewed and approved by reviewer

* Creating Test Data:

Test data will be created by respective QA on client's developments/test site based on scenarios and Test cases.

* Executing Test Cases:
* Test cases will be executed by respective QA on client's development/test site based on designed scenarios, test cases and Test data.
* Test result (Actual Result, Pass/Fail) will updated in test case document Defect Logging and Reporting:

QA will be logging the defect/bugs in Word document, found during execution of test cases. After this, QA will inform respective developer about the defect/bugs.

* Retesting and Regression Testing:

Retesting for fixed bugs will be done by respective QA once it is resolved by respective developer and bug/defect status will be updated accordingly. In certain cases, regression testing will be done if required.

* Deployment/Delivery:
* Once all bugs/defect reported after complete testing is fixed and no other bugs are found, report will be deployed to client’s test site by PM.
* Once round of testing will be done by QA on client’s test site if required, Report will be delivered along with sample output by email to respective lead and Report group.

### 8.2 Bug life cycle:

All the issues found while testing will be logged into Word document.

### 8.3 Bug Severity and Priority Definition

Bug Severity and Priority fields are both very important for categorizing bugs and prioritizing if and when the bugs will be fixed. The bug Severity and Priority levels will be defined as outlined in the following tables below. Testing will assign a severity level to all bugs. The Test Lead will be responsible to see that a correct severity level is assigned to each bug.

The QA Lead, Development Lead and Project Manager will participate in bug review meetings to assign the priority of all currently active bugs. This meeting will be known as

“Bug Triage Meetings”. The QA Lead is responsible for setting up these meetings on a routine basis to address the current set of new and existing but unresolved bugs.

## 9 RESOURCE AND ENVIRONMENT NEEDS

#### 9.1 Testing Tools

|  |  |  |
| --- | --- | --- |
| Process |  | Tool |
| Test case creation | Microsoft Excel |  |
| Test case tracking | Microsoft Excel | , ALM |
| Test case execution | Manual, UFT |  |
| Test case management | Microsoft Excel |  |
| Defect management | Microsoft Word | , ALM |
| Test reporting | PDF |  |
| Check list creating | Microsoft Excel |  |
| Project structure |  |  |

#### 9.2 Configuration Management

* Documents CM: SVN
* Code CM: GIT

#### 9.3 Test Environment

Support level 1 (browsers):

* Windows 10: Edge, Chrome (latest), Firefox (latest), Safari (latest) x Mac OS X: Chrome (latest), Firefox (latest), Safari (latest)
* Linux Ubuntu: Chrome (latest), Firefox (latest)

Support level 1 (devices):

Windows 7: IE 9+, Chrome (latest), Firefox (latest), Safari (latest) xWindows XP: IE 8, Chrome (latest), Firefox (latest), Safari (latest)

Support level 2:

Anything else

## 10 TEST SCHEDULE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task Name** | **Start** | **Finish** | **Effort** | **Comments** |
| Test Planning |  |  |  | Support! |
| Review Requirements  documents |  |  |  |  |
| Create test basis |  |  |  |  |
| Staff and train new test resources |  |  |  |  |
| First deploy to QA test |  |  |  |  |
| environment |  |  |  |  |
| Functional testing –  Iteration 1 |  |  |  |  |
| Iteration 2 deploy to QA test environment |  |  |  |  |
| Functional testing –  Iteration 2 |  |  |  |  |
| System testing |  |  |  |  |
| Regression testing |  |  |  |  |
| UAT |  |  |  |  |
| Resolution of final defects and final build testing |  |  |  |  |
| Deploy to Staging  environment |  |  |  |  |
| Performance testing |  |  |  |  |
| Release to Production |  |  |  |  |

# APPROVALS:

|  |  |  |
| --- | --- | --- |
|  | **Project Manager** | **QA Lead** |
| **Name** |  |  |
| **Signature** |  |  |

## TERMS/ACRONYMS

The below terms are used as examples, please add/remove any terms relevant to the document.

|  |  |
| --- | --- |
| **TERM/ACRONYM** | **DEFINITION** |
| API | Application Program Interface |
| GUI | Graphical user interface |
| PM | Project manager |
| UAT | User acceptance testing |
| CM | Configuration Management |
| QA | Quality Assurance |
| RTM | Requirements Traceability Matrix |