

Table of Contents

| | |
|--|----|
| 1 INTRODUCTION | 2 |
| 2 SCOPE | 2 |
| 3 QUALITY OBJECTIVES | 3 |
| 3.1 Primary Objectives | 3 |
| 3.2 Secondary Objectives | 4 |
| 4 TEST APPROACH | 4 |
| 5 ROLES AND RESPONSIBILITIES..... | 5 |
| 6 ENTRY AND EXIT CRITERIA | 5 |
| 6.1 Entry Criteria | 5 |
| 6.2 Exit Criteria | 6 |
| 7 SUSPENSION CRITERIA AND RESUMPTION REQUIREMENTS..... | 6 |
| 7.1 Suspension criteria..... | 6 |
| 7.2 Resumption criteria | 6 |
| 8 TEST STRATEGY | 7 |
| 8.1 QA role in test process | 7 |
| 8.2 Bug life cycle:..... | 8 |
| 8.3 Testing types | 9 |
| 8.4 Bug Severity and Priority Definition | 11 |
| Severity List..... | 11 |
| Priority List..... | 12 |
| 9 RESOURCE AND ENVIRONMENT NEEDS | 12 |
| 9.1 Testing Tools | 12 |
| 9.2 Configuration Management..... | 13 |
| 9.3 Test Environment | 13 |
| 10 TEST SCHEDULE..... | 13 |
| APPROVALS | 14 |
| TERMS/ACRONYMS | 14 |

Test Plan

Project “Question guru”

Document Revision History

| Date | Version | Description | Author | Reviewer | Approver |
|------------|---------|-----------------------|-------------|----------|----------|
| 13.04.2023 | 0.1 | Test plan was created | Anish Patel | | |
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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 describes approaches and methodologies that will apply to the unit, integration and system testing of the "http://www.questionguru.net/". 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 Functional testing, GUI testing and validating data output as per Requirements Specifications provided by Client.

2.1 Functions to be tested.

1. Search functionality
2. Login
3. Sign up
4. Feed
5. Trending Question

6. Trending User
7. Change Password
8. Notifications
9. Email notification
10. Information
11. Contact Us
12. Help and Support
13. Share, Like and Upvoted
14. Profile and Edit Profile
15. Block User
16. Hidden Feed
17. Hidden User

2.2 Functions not to be tested.

1. Performance testing
2. Database Testing

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 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

Detail Testing phase and Methodologies are mentioned below. We will follow same Protocol of each phase and achieve the highest result:

- Requirement Analysis
- Test Case Design
- GUI Testing
- Functional Testing
 - Need to verify each functionality of System
 - Testing the links
 - Testing for Forms
 - Validation
- Smoke Testing
- System Integration Testing
- Usability Testing
- Compatibility Testing
 - Browser Compatibility
 - Mobile Compatibility
- Compatibility Testing
- Beta Testing

5 ROLES AND RESPONSIBILITIES

| Role | Staff Member | Responsibilities |
|-----------------|--------------|--|
| Project Manager | | <ol style="list-style-type: none">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 | | <ol style="list-style-type: none">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 | | <ol style="list-style-type: none">1. Understand requirements2. Writing and executing Test cases3. Preparing RTM4. Reviewing Test cases, RTM5. Defect reporting and tracking6. Retesting and regression testing7. Bug Review meeting8. Preparation of Test Data9. 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
- QA resources have sound knowledge of functionality
- Reviewed test scenarios, test cases and RTM

6.2 Exit Criteria

- A certain level of requirements coverage has been achieved.
- No high priority or severe bugs are left outstanding.
- 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

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 be updated in test case document
 - Defect Logging and Reporting:

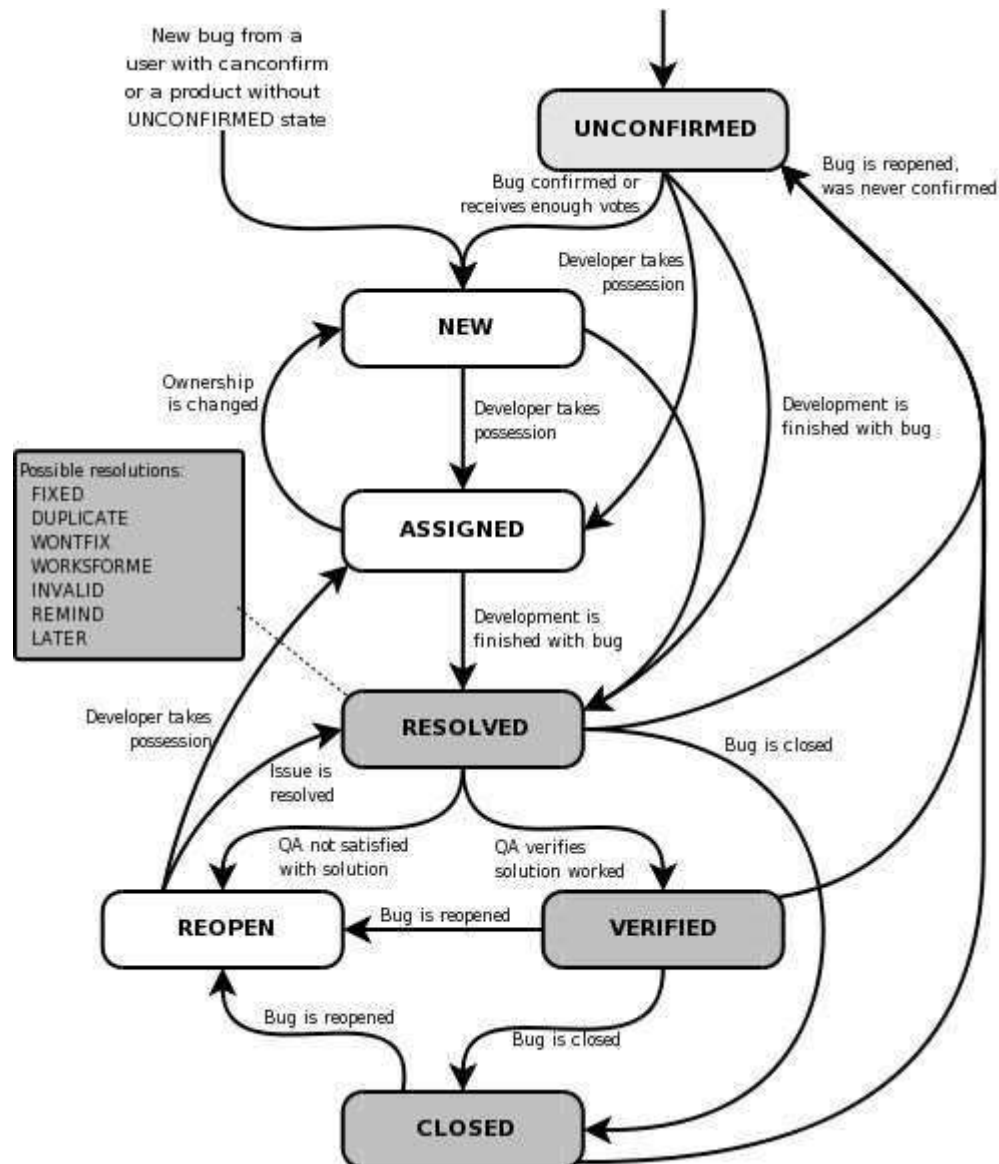
QA will be logging the defect/bugs in Word document, found during execution of test cases. After this, QA will inform respective developer about the defect/bugs.

- 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.
 - QA will be submitting the filled hard copy of delivery slip to respective developer.
 - Once lead gets the hard copy of delivery slip filled by QA and developer, he will send the report delivery email to client.

8.2 Bug life cycle:

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

Bug life cycle for this project is as follows:



8.3 Testing types

Black box testing:

It is some time called behavioral testing or Partition testing. This kind of testing focuses on the functional requirements of the software. It enables one to derive sets of input conditions that that will fully exercise all functional requirements for a program.

GUI Testing:

GUI testing will includes testing the UI part of report. It covers users Report format, look and feel, error messages, spelling mistakes, GUI guideline violations.

Integration Testing:

Integration testing is systematic technique for constructing the program structure while conducting test to uncover errors associated with interacting. In Report, integration testing includes the testing Report from respective location(s).

Functional Testing:

Functional testing is carried out in order to find out unexpected behavior of the report. The characteristic of functional testing are to provide correctness, reliability, testability and accuracy of the report output/data.

System Testing:

System testing of software is testing conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements.

User acceptance testing:

The purpose behind user acceptance testing is to conform that system is developed according to the specified user requirements and is ready for operational use. Acceptance testing is carried out at two levels - Alpha and Beta Testing. User acceptance testing (UAT) will be done at the Client.

Smoke testing:

The purpose behind user smoke testing is to conform that new software build is ready for next testing phase.

Compatibility testing:

The purpose behind user compatibility testing is to conform that new software/website is working properly in different browser, Operating system and mobile device

Usability testing:

The purpose behind user usability testing is to conform that how easy end user was able to use the interface and design of interface is friendly

Beta testing:

The purpose behind beta testing is to release product in a production environment to uncover any bugs or issue before general release.

8.4 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.

Severity List

The tester entering a bug into Question guru is also responsible for entering the bug Severity.

| Severity ID | Severity | Severity Description |
|-------------|----------|--|
| 1 | Critical | The module/product crashes or the bug causes nonrecoverable conditions. System crashes, GP Faults, or database or file corruption, or potential data loss, program hangs requiring reboot are all examples of a Sev. 1 bug. |
| 2 | High | Major system component unusable due to failure or incorrect functionality. Sev. 2 bugs cause serious problems such as a lack of functionality, or insufficient or unclear error messages that can have a major impact to the user, prevents other areas of the app from being tested, etc. Sev. 2 bugs can have a work around, but the work around is inconvenient or difficult. |
| 3 | Medium | Incorrect functionality of component or process. There is a simple work around for the bug if it is Sev. 3. |

| | | |
|---|-------|---|
| 4 | Minor | Documentation errors or signed off severity 3 bugs. |
|---|-------|---|

Priority List

| Priority | Priority Level | Priority Description |
|----------|--------------------|---|
| 1 | Must Fix | This bug must be fixed immediately; the product cannot ship with this bug. |
| 2 | Should Fix | These are important problems that should be fixed as soon as possible. It would be an embarrassment to the company if this bug shipped. |
| 3 | Fix When Have Time | The problem should be fixed within the time available. If the bug does not delay shipping date, then fix it. |
| 4 | Low Priority | It is not important (at this time) that these bugs be addressed. Fix these bugs after all other bugs have been fixed. Enhancements/ Good to have features incorporated just are out of the current scope. |

9 RESOURCE AND ENVIRONMENT NEEDS

9.1 Testing Tools

| Process | Tool |
|----------------------|--------------------------|
| Test case creation | Microsoft Excel |
| Test case tracking | Microsoft Excel |
| Test case execution | Manual |
| Test case management | Microsoft Excel |
| Defect management | Microsoft Excel and Jira |
| Test reporting | PDF |
| Check list creating | Microsoft Excel |

9.2 Configuration Management

- Documents : SVN
- Code CM: Git

9.3 Test Environment

- Support level 1 (browsers):
 - Windows 8: Edge, Chrome (latest), Firefox (latest), Safari (latest)
 - Mac OS X: Chrome (latest), Firefox (latest), Safari (latest)
- Support level 1 (devices): iPhone SE and above , iPad 8 and above, Samsung S9, Google Pixel 3a and above.
- Support level 2:
 - Windows 9: Chrome (latest), Firefox (latest), Safari (latest)
 - Windows 10: Chrome (latest), Firefox (latest), Safari (latest)

10 TEST SCHEDULE

| Task Name | Start | Finish | Effort | Comments |
|-------------------------------------|-------|--------|--------|----------|
| Test Planning | 16.09 | 18.09 | | Support! |
| Review Requirements documents | 16.09 | 17.09 | | |
| Create test basis | 19.09 | 1.10 | | |
| Staff and train new test resources | - | - | | |
| First deploy to QA test environment | 21.09 | | | |
| Functional testing | 21.09 | 23.09 | | |

| | | | | |
|---|-------|-------|--|--|
| Iteration 1 | | | | |
| Iteration 2 deploy to QA test environment | 23.09 | 24.09 | | |
| Functional testing – Iteration 2 | 24.09 | 1.10 | | |
| 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 |