Test Plan

For *OMMCOM Media Pvt. Ltd.*

Version 1.0

Luminous Infoways Pvt. Ltd.

**Revision History**

|  |  |  |  |  |  |
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| Version (x.y) | Date of Revision | Description of Change | Reason for Change | Affected Sections | Approved By |
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**1. INTRODUCTION**

OMMCOM Media Pvt. Ltd. has contracted with Luminous Infoways Pvt. Ltd., India to design,development and testing the Ommcom Media application.

This document will address the different standards that will apply to the unit, integration and system testing of the specified application. The design, development and testing will be based on Ommcom Media project.

**2. OBJECTIVE**

Objective of Test plan is to define the various Testing strategies and testing tools used for complete Testing life cycle of this project.

**3. SCOPE**

The document mainly targets the functionality, navigation, GUI,usability and forms, as well as aspects of the system such as performance, upgrade and portability, as per Requirements Specifications provided by Client.

**4. ASSUMPTIONS AND CONSTRAINTS**

|  |  |
| --- | --- |
| **Sl .No** | **Details** |
| 1 | Internet Connectivity required to view the updated information in web/mobile application |
| 2 | Electricity should be available for accessing the web app. |
| 3 | Web camera / Mobile's camera required for the visitors to participate in video conference. |
| 4 | Internet connectivity of 25 kbps or more is required for a visitor to join live video conference. |

**5.TEST ITEMS**

|  |  |
| --- | --- |
| **Sl**. No. | **Particulars** |
| 1 | Landing Page (Web) |
| 2 | Landing Screen (Mobile) |
| 3 | Role Management (Web) |
| 4 | User Management (Web) |
| 5 | Content Management System (CMS) (Web) |
| 6 | Video Conference (Web) |
| 7 | Social Media (Web) |
| 8 | Audit Trail (Web) |
| 9 | Sponsors & Advertisement (Web & Mobile) |
| 10 | Citizen Journalist (Web) |
| 11 | SMS & Mail Subscription (Web) |
| 12 | Statistics (Web) |

**6.FEATURES TO BE TESTED**

The aim of this section is strategic and is a checklist to provide input for estimating testing effort.

**6.1 Functional Requirements:**

|  |  |
| --- | --- |
| **Requirement Number#** | **Functionalities** |
| SRSreq 01 | All viewers shall be able to view the landing page of the web application.  *(Logo,Horizontal menu,Top news,weather widget,Upcoming Video Conferences,Breaking news,Featured Stories,Top stories,Categories Stories)* |
| SRSreq 02 | All viewers shall be able to view the landing screen of the mobile app.  *(Logo,Horizontal menu,Top news,weather widget,Upcoming Video Conferences,Breaking news,Featured Stories,Top stories,Categories Stories)* |
| SRSreq 03 | Viewer shall be asked to save his/her preference if frequently visits a single section. |
| SRSreq 04 | Admin shall be able to create/manage roles using the role management feature. |
| SRSreq 05 | Admin shall be able to add/manage users using the user management feature. |
| SRSreq 06 | Admin shall be able to add/manage news categories. |
| SRSreq 07 | Content Writers & Admin shall be able to write article/news for respective news categories |
| SRSreq 08 | Admin & the authorized user shall be able to moderate/approve the contents being published by the content writer. |
| SRSreq 09 | After rejection, the respective content writer is allowed to edit the respective previously submitted news/article. |
| SRSreq 10 | Admin shall be able to add/manage theme for the News/Article publishing. |
| SRSreq 11 | Admin shall be able to create Vote/Poll to which viewers can interact with. |
| SRSreq 12 | Viewers can participate in opinion polls |
| SRSreq 13 | Admin and authorized users shall be able to create/manage Video Conference. |
| SRSreq 14 | Viewers shall be able to view the ongoing video conference by clicking on the View button for the respective Video Conference under Upcoming Video Conference section. |
| SRSreq 15 | Moderator shall be able to moderate the Video Conference processes |
| SRSreq 16 | Viewers shall be able to share any news/article/videos |
| SRSreq 17 | Viewers shall be able to view What's trending in Social Media ?  All the latest topics trending in social media (i.e. facebook, twitter, instagram, etc) shall be shown to the viewers under Social Media section. |
| SRSreq 18 | Viewers shall be able to comment/edit their existing comments on any news, article, videos, etc. |
| SRSreq 19 | Viewers information are captured when he/she comments or requests to join a video conference |
| SRSreq 20 | Admin & Authorized users shall able to block any respective viewer's activity. |
| SRSreq 21 | Admin and authorized users shall be able to view all the activities taking place in the application in the audit log |
| SRSreq 22 | Admin & authorized users shall be able to view/add/modify advertisements & sponsors |
| SRSreq 23 | Viewers shall be shown advertisements or sponsored by on a random basis after 5 taps/clicks |
| SRSreq 24 | A citizen shall able to sign up with the application for posting any article, news, video, etc. |
| SRSreq 25 | After viewer submits his/her news, article, video, etc. the respective content will be published after admin's or authorized user's approval |
| SRSreq 26 | Viewers shall be able to subscribe to SMS or Mail subscription to get news |
| SRSreq 27 | Admin shall be able to send mail to multiple people at one single go. |
| SRSreq 28 | Admin shall be able to save as draft any mail which he/she can resume writing afterwards. |
| SRSreq 29 | Admin shall be able to view the status of sent mails. |
| SRSreq 30 | Admin & authorized users shall be able to view multiple reports & statistics |

**6.2 GUI**

**6.3 Other Nonfunctional Requirements**

a. Performance Testing

b. Load Testing

c. Security Testing

**7.FEATURES NOT TO BE TESTED**

Not other than mentioned above in section 6

**8.APPROACH**

**Requirements phase**

* Identify all requirements documents that will be produced in this phase.
* Requirement specifications will be sent by client.
* Understanding of requirements will be done by QA along with Respective lead and developer and queries are raised if any.
* Raised queries will be sent by lead to client.
* Response to queries will be sent by client.

**Preparing Test Cases**

* QA will be preparing test cases based on the requirement specifications.
* 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 senior QA member in QA team
* In certain cases for e.g. complex requirements, lead's help will be

taken for conducting review

* 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 Bug Genie bug tracking tool found during execution of test cases and will assigned the Bug id generated by Bug Genie to respective test cases document.
* 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.

**System Testing**

* System testing will be performed on the completed software product before it is introduced to the client.
* Types of testing to be performed: Functional, Navigation, Usability,GUI,Stress, Load, Performance, Security, Installation, Upgrade, Backup/restore.

**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

developer.

* 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.

**9. TEST STRATEGY**

9.1 Testing types

**Black box testing**

* This kind of testing focuses on the functional requirements of the software. It enables one to derive sets of input conditions that will fully exercise all functional requirements .

**GUI Testing**

* GUI testing will includes testing the UI part of the application. It covers alignment,responsive,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.
* After integration of all the modules integration testing will be performed.
* QA will verify the functional,performance and reliability between the modules that are integrated.

**Functional Testing**

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

**System Testing**

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

**Performance Testing**

Performance testing will be done by Client or by the performance team in performance testing tool.

**UAT**

* UAT will be done at client side.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.
* Alpha testing:
* The alpha test is conducted at the developer's site by client.

**10. ENTRY CRITERIA**

The following criteria should be fulfilledbefore the start of system testing:

* Requirements and specification documents should be finalised.
* The whole source code must be unit tested
* H/W and S/W should be in place.
* QA resources have completely understood the requirements
* QA resources have enough knowledge on the application functionalities.
* Reviewed test scenarios, test cases and RTM

**11. 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.

**11.1 RESUMPTION CRITERIA**

* Resumption will only occur when the problem(s) that caused the

the suspension have been resolved.

**12. EXIT CRITERIA**

* No defects over a period of time or less testing efforts
* All the high priority/severity test cases has been executed
* Deliverables are ready
* High severity/ priority bugs are fixed
* All the fixed bugs have been verified/retested.

**13. TEST DELIVERABLES**

* Test Plan
* Test Cases Report
* Test Progress Reports
* Defect Reports
* Test Results/Summary Reports

**14. RESPONSIBILITIES**

|  |  |
| --- | --- |
| **ROLE** | **RESPONSIBILITIES** |
| PM | 1.Acts as a primary contact for development and QA team.  2.Responsible for Project schedule and the overall success of the project. |
| 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 |

**15.TRAINING**

Describe the training that you assume will be taken to get the test team the skills needed to perform the planned tests.

N/A

**16.SCHEDULE**

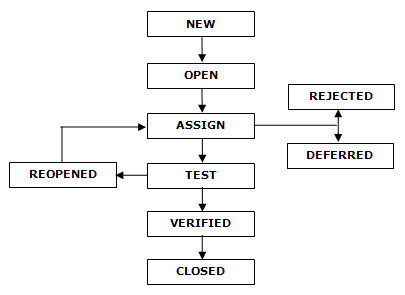
|  |  |  |  |
| --- | --- | --- | --- |
| **Phases** | **Start Date** | **End Date** | **Deliverables** |
| Planning Phase | 02-04-2016 | 04-04-2016 | Project Plan,Function Specification |
| Design Phase | 04-04-2016 | 14-04-2016 | DFD,ERD,Flow Charts,Design Document |
| Development Phase | 14-04-2016 | 30-05-2016 | Unit Testing Report |
| Testing Phase | 04-04-2016 | 30-05-2016 | Test Plan,Test cases report,Bug Report,Testing summary report,RTM |
| UAT | 05-06-2016 | 05-06-2016 | UAT report |
| Beta Testing | 06-06-2016 | 05-06-2016 | Testing Reports |
| Final Roll out | 10-06-2016 | 10-06-2016 | Testing Reports,User Manual and Complete Source code along with database |

**17. RISKS AND CONTINGENCIES**

|  |  |  |  |
| --- | --- | --- | --- |
| **Risk No** | **Description** | **Impact** | **Mitigation** |
| Risk 1 | Requirement changing during development | High | The test schedule and development schedule will move out an appropriate number of days |
| Risk 2 | Test cases not completed | High | The test team will work overtime |
| Risk 3 | Lack of personnel resources when testing is to begin. | Medium | Resources will be added to the test team. |
| Risk 4 | Late delivery of the product | Medium | Resourses will work over time |
| Risk 5 | Team has not expertise in Domain and project | Medium | Plan a training program for Domain and project knowledge transfer. |

**18.DEFECT REPORTING**

Defects found during testing will be logged in Defect Tracking Tool Bug Genie.



**18.1 BUG REVIEW MEETING**

Bug review meeting will be held for every test cycle conducted during the

following phases:-

• GUI Testing

• Report Output/Data Testing

In case of critical / show stoppers bugs.