**Test Strategy**

**Gmail**

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1. **SCOPE & OVERVIEW**:

The software to be used is called Gmail. This software is capable of performing the needed functionality in order to allow the user send and receive various files through the Gmail mailing system. This activities include, login / signup, inbox, sent items.

* 1. **Functions to be tested.**
* Login / Signup
* Inbox
* Sent items

1. **TEST APPROACH**:

The approach is in accordance to requirements-based strategy, where an analysis of the requirements specification forms the basis for planning, Test Plan for estimating and designing tests.

3. **TEST LEVELS:**

3.1 login / Signup

3.2 Inbox

3.3 Sent Items

4. **TEST TYPE**

**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 for a program.

**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.

**Performance Testing**:

* Check the optimal time the page is loaded.
* Check the operation of the system under load.

**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. Acceptance testing will be done at the Client.

5. **ENVIRONMENT REQUIREMENTS**:

* Windows / Mac OS X / iPhone /Android/ Linux Ubuntu
* Chrome / Firefox.

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 Word Test |
| Reporting | PDF |

1. **ROLES AND RESPONSIBILITIES:**

|  |  |
| --- | --- |
| Roles | Responsibilities |
| Project Manger | 1. Acts as a primary contact for development and QA team.  2. Responsible for Project schedule and the overall success of the project. |
| Project 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. |

1. **TEST DELIVERABLES:**

* 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.

1. **TESTING METRICS:**

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

1. **REQUIREMENT TRACEABILITY MATRIX:**

Requirement traceability matrix is used to trace the requirements to the tests that are needed to verify whether the requirements are fulfilled.

# **REPORTING TOOL:**

# PDF will be the reporting tool for this project.

# **APPROVALS:**

The following people have approved the Test Strategy

|  |  |
| --- | --- |
| Approved By Role | Approved By Name |
| Project Manager | Anu Meha |
| Project Lead | Naveen |
| QA | Tejaswini M |

1. **TEST SUMMARY:**

As all the requirements are tested, fulfilled and satisfied as mentioned in above Sections 10,this application is suggested to client, by Testing team. Appropriate User /Business acceptance testing should be performed.