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**LocAdoc**

**Test Report**

**Version 0.1**

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# Introduction

This test plan describes the testing approach and overall framework that will drive the testing of the LocAdoc system.

It describes:

* The different features to be tested
* The test objective
* The result after testing
* The test environment

# Test Plan Overview

This test plan will outline and define the strategy and approach taken to perform formal system qualification tests on LocAdoc app.

## Objective

The objective of the test is to verify that the functionality of LocAdoc system works according to the specifications.

## Approach

The test members will use Project Proposal and System Architecture Document to prepare the necessary test scripts and reports.

The testing phase is divided into 19 suites:

1. Sign up
2. Login
3. Instance ID Verification
4. Home page
5. PDF viewer
6. Import file
7. Add empty area
8. Area operations
9. File operation
10. Password recovery
11. Change password
12. Change name
13. Cloud storage
14. Change user
15. Delete user
16. File and data synchronization
17. GPS spoofing
18. Area explorer
19. File explorer

## Black box testing

Black box testing is a software testing technique in which functionality of the software under test (SUT) is tested without looking at the internal code structure, implementation details and knowledge of internal paths of the software. This type of testing is based entirely on the software requirements and specifications.

The advantages of black box testing are:

* Tests are done from a user’s point of view and will help in exposing discrepancies in the specifications.
* The tester can be non-technical
* Test cases can be designed as soon as the functional specifications are complete.
* Tests can be conducted by a body independent from the developers, allowing for an objective perspective and the avoidance of developer-bias.

## Features to be tested

This plan will execute specific test that exists in order to exercise the features provided and specified in the System Requirements Document of LocAdoc application.

### Sign up Testing

|  |  |
| --- | --- |
| Test Objective | Test plan for Sign up form |
| Technique | Create tests for each input field to verify if the Signup function is working. |
| Completion Criteria | Sign up must be successful only upon entering valid values in all the fields. |
| Special Considerations | NIL |

Table 2.0: Sign Up Testing

### Login Testing

|  |  |
| --- | --- |
| Test Objective | Test plan for login form |
| Technique | Perform a test on input validation and authentication. Check added delay timer on 3 invalid tries. |
| Completion Criteria | Login must be successfully completed, and delay timer should slow down any adversary from brute forcing the password. |
| Special Considerations | NIL |

Table 2.1: Login Testing

### Instance ID Verification Testing

|  |  |
| --- | --- |
| Test Objective | Test if the Instance ID |
| Technique | Login to two devices to check if the instance ID is working. |
| Completion Criteria | The first device should logout when logged into second device. |
| Special Considerations | NIL |

Table 2.2: Instance ID Verification Testing

### Home page Testing

|  |  |
| --- | --- |
| Test Objective | To test if all the user interface components are responsive. |
| Technique | Try out various features (menu, search bar, floating action button) of homepage one by one. |
| Completion Criteria | If all homepage are features are responsive. |
| Special Considerations | NIL |

Table 2.3: Home page Testing

### PDF Viewer Testing

|  |  |
| --- | --- |
| Test Objective | To test if the PDF viewer renders the PDF file and close on moving out of the location. |
| Technique | The test was conducted by importing a pdf file and moving out of the current area |
| Completion Criteria | If the pdf file is properly rendered and close on moving out of the designated area. |
| Special Considerations | NIL |

Table 2.4: PDF Viewer Testing

### Import File Testing

|  |  |
| --- | --- |
| Test Objective | To test if the files are imported successfully |
| Technique | Try out various scenarios of importing file that the user may end up performing. |
| Completion Criteria | If the files are imported and can be opened successfully. Check if files are destroyed if the user choose to empty them. |
| Special Considerations | NIL |

Table 2.5: Import File Testing

### Add empty area Testing

|  |  |
| --- | --- |
| Test Objective | To test if an empty area can be created. |
| Technique | By creating empty empty areas |
| Completion Criteria |  |
| Special Considerations |  |

Table 2.6: Add empty area Testing

### Area operations Testing

|  |  |
| --- | --- |
| Test Objective |  |
| Technique |  |
| Completion Criteria |  |
| Special Considerations |  |

Table 2.7: Area operations Testing

### File operations Testing

|  |  |
| --- | --- |
| Test Objective | To test if the file related operations function as per the requirement. |
| Technique | Each file loaded into one are moved or copied to another area. Finally the files are deleted. |
| Completion Criteria | If all file operation work according to requirement. |
| Special Considerations | NIL |

Table 2.8: File operations Testing

### Password recovery Testing

|  |  |
| --- | --- |
| Test Objective |  |
| Technique |  |
| Completion Criteria |  |
| Special Considerations |  |

Table 2.9: Password recovery Testing

### Change password Testing

|  |  |
| --- | --- |
| Test Objective |  |
| Technique |  |
| Completion Criteria |  |
| Special Considerations |  |

Table 2.10: Change password Testing

### Change name Testing

|  |  |
| --- | --- |
| Test Objective |  |
| Technique |  |
| Completion Criteria |  |
| Special Considerations |  |

Table 2.11: Change name Testing

### Cloud storage limit Testing

|  |  |
| --- | --- |
| Test Objective |  |
| Technique |  |
| Completion Criteria |  |
| Special Considerations |  |

Table 2.12 Cloud storage limit Testing

### Change user Testing

|  |  |
| --- | --- |
| Test Objective |  |
| Technique |  |
| Completion Criteria |  |
| Special Considerations |  |

Table 2.13: Change user Testing

### Delete user Testing

|  |  |
| --- | --- |
| Test Objective | To test if the user can delete his account |
| Technique | The delete user functionality is executed on login and try to re-login using same deleted account. |
| Completion Criteria | If the re-Login fails and if all the user record is deleted from both Cognito, DynamoDB and S3. |
| Special Considerations | NIL |

Table 2.14: Delete user Testing

### File and data synchronization Testing

|  |  |
| --- | --- |
| Test Objective |  |
| Technique |  |
| Completion Criteria |  |
| Special Considerations |  |

Table 2.15: File and data synchronization Testing

### GPS spoofing Testing

|  |  |
| --- | --- |
| Test Objective |  |
| Technique |  |
| Completion Criteria |  |
| Special Considerations |  |

Table 2.16: GPS spoofing Testing

## Item Pass/Fail Criteria

This section specifies the Pass/Fail criteria for the tests covered in this plan. The test items detailed above act as the targets of this plan, which will be tested for the LocAdoc application.

The system will be deemed to have passed testing if:

* All tests defined have been executed, and
* The number of tests executed without any defects is more than 95% of the total, and
* Any defects detected have a severity classification of Low.

The system will be deemed to have failed testing if:

* The number of test executed with defects is more than 5% of the total, and
* There are defects with a severity classification of High.

## Test Deliverables

The following documents will be generated by the test member and will be created after test completion.

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Deliverable Name** | **Author** | **Reviewer** |
| 1. | Test Plan | Testing team |  |
| 2. | Test Scripts | Testing team |  |
| 3. | Test Summary Report | Testing team |  |

## Test Environment

We tested this app on 4 devises all running different hardware made within past five years (2013 to 2017). The test was conducted by keeping following things in mind: -

* Processing power.
* Android version.
* Screen size.
* Network and GSP connectivity hardware.

The phones used are:-

* **Moto G (1st Generation)** – Released in 2013 with 1Gb of RAM and Quad-core 1.2 GHz Cortex-A7 processor. It runs android version 5.1.1(Lollipop) and considered to be the lowest configuration required to run this app.
* ***Sony Xperia Z5*** – Released in 2015 3GB of RAM and Octa-core (4x1.5 GHz Cortex-A53 & 4x2.0 GHz Cortex-A57, Qualcomm MSM8994 Snapdragon 810 chipset) processor. It runs android version 7.1.1 (Nougat).
* **Samsung galaxy Note 5** - Released in 2015 with 4GB of RAM and Octa-core (4x2.1 GHz Cortex-A57 & 4x1.5 GHz Cortex-A53, Exynos 7420 Octa chipset) processor. It runs android version 7.1.1 (Nougat).
* **Samsung galaxy S8** - Released in 2015 with 4GB of RAM and Octa-core (4x2.3 GHz & 4x1.7 GHz, Exynos 8895 Octa). It runs android version 7.1.1 (Nougat).

## Test Summary Report

In Total 138 cases tested.

### Conclusion

### Problems faced

### Improve Test Assets.

### Achievements