Test plan

*Thomas Or*

June 23, 2020

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# Introduction

This test plan outlines the testing requirements for the Android Phonebook Application. This Test plan will cover Test Cases for the core requirements of the App.

## Objectives

Objective is to test the SQLite/Local Database functionality of app.

## Team members

|  |  |
| --- | --- |
| **Name** | **Role** |
| *Qiao Li*  *Thomas Or* | Test Manager  Developer, Tester |

# Features/units to be tested

Features to be tested:

* Application navigation functionality
* Able to ADD a contact to the Phonebook
* Able to UPDATE a contact in the Phonebook
* Able to DELETE a contact in the Phonebook
* Application can interchange colour themes, Light & Dark
* Able to Search and Sort the Phonebook
* Able to Synchronise the Local database with the remote database
* Able to use the Camera feature on the App

# Approach

The Testing Approach will use Black-Box testing. A user will run the application and test the features by following the Test cases outlined below.

# Test cases

## Test Case ID: 001

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 001 – Testing the Application’s navigation functionality  **Executed by**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Execution Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Scenario**: User will test the navigation of the Phonebook App  **Test Case**: Application navigation functionality | | | | |
| Prerequisite | |  | | |
| Test Data | |  | | |
| Step | Action | | Expected Result | Success? |
| 1 | Perform swipe gesture on Welcome Page | | The list page loads successfully. | **or X** |
| 2 | On the List page, Click the ‘Add’ floating action button | | The add page loads successfully. |  |
| 3 | On the Add page, click the ‘Add’ button | | After a contact is added to the database, the user is taken back to the List Page. |  |
| 4 | On the List page, click on a Contact | | The Details page loads, with the selected contact’s details |  |
| 5 | On the List page, left swipe a contact to reveal a ‘edit’ button. Click the ‘edit button. | | The user can successfully use the left swipe to reveal the edit button.  After clicking the edit button, the edit page loads. |  |
| 6 | On the Edit page, click the ‘Update’ button | | After the contact has been updated, the user is taken back to the List Page. |  |

## Test Case ID: 002

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 002 – Able to ADD a contact to the Phonebook  **Executed by**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Execution Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Scenario**:  **Test Case**: | | | | |
| Prerequisite | |  | | |
| Test Data | |  | | |
| Step | Action | | Expected Result | Success? |
| 1 | Open the Add page by clicking the ‘Add’ floating action button on the List Page | | The Add Page is shown with editable text fields to add a new contact. | **or X** |
| 2 | Enter new contact details on the Add Page | | User can successfully add text into the text fields. |  |
| 3 | Click the “ADD” button | | A new contact is added to the phonebook database and the user is returned to the List page. |  |
| 4 | Check the list page for the newly added contact | | The newly added contact should be visible in the Contact List. |  |
| 5 | Open the Add page by clicking the ‘Add’ floating action button on the List Page | | The Add Page is shown with editable text fields to add a new contact. |  |

## Test Case ID: 003

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 003 – Able to UPDATE a contact in the Phonebook  **Executed by**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Execution Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Scenario**:  **Test Case**: | | | | |
| Prerequisite | |  | | |
| Test Data | |  | | |
| Step | Action | | Expected Result | Success? |
| 1 | Open the list page | | All contacts in the phonebook database are visible on the list page | **or X** |
| 2 | Swipe a contact to the left | | The edit button should be reveal underneath the selected contact |  |
| 3 | Click the edit button to open the edit page | | The edit page should appear with the selected contact’s details pre-loaded into the editable text fields |  |
| 4 | Edit the contact’s details | | User should be able to edit the contact’s details |  |
| 5 | Click the “UPDATE” button | | The Contact’s details are successfully updated and the user is returned to the list page. |  |
| 6 | Check the list page for the updated contact | | The user should be able to see the updated contact in the Contact List. |  |

## Test Case ID: 004

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 004 – Able to DELETE a contact in the Phonebook  **Executed by**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Execution Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Scenario**:  **Test Case**: | | | | |
| Prerequisite | |  | | |
| Test Data | |  | | |
| Step | Action | | Expected Result | Success? |
| 1 | Open the list page | | All contacts in the phonebook database are visible on the list page | **or X** |
| 2 | Long click on a contact to select a contact to delete | | After successful long click of a contact, a shadow of the contact appears |  |
| 3 | Hold the contact shadow and drag it to the Delete Action button | | The shadow will disappear and a message will appear, confirming if the user wishes to delete the contact. |  |
| 4 | Delete confirmation Message – YES/NO | | If user selects Yes, the contact is deleted and the user returns to the List page.  If user select No, nothing happens, and user returns to the list page. |  |
| 5 | After a Contact is deleted | | A confirmation message appears and the List page is refreshed, with the deleted contact removed from the List. |  |

## Test Case ID: 005

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 005 – Application can interchange colour themes, Light & Dark  **Executed by**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Execution Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Scenario**:  **Test Case**: | | | | |
| Prerequisite | |  | | |
| Test Data | |  | | |
| Step | Action | | Expected Result | Success? |
| 1 | On the Welcome Page, click the ‘Dark’ button | | The colour theme will change to the dark theme (if the theme was previously set on ‘Light’ theme). | **or X** |
| 2 | Navigate to other pages of the app | | All other pages will have the ‘Dark’ theme applied. |  |
| 3 | On the Welcome Page, click ‘Light’ button | | The colour theme will change to the light theme (if the theme was previously set on ‘Dark’ theme). |  |
| 4 | Set the Colour theme to ‘Dark’ and close the app. Re-open the App. | | The selected colour theme (dark theme) should be saved and when re-opening the app, the same theme is applied (i.e. dark theme) |  |

## Test Case ID: 006

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 006 – Able to Search and Sort the Phonebook  **Executed by**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Execution Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Scenario**:  **Test Case**: | | | | |
| Prerequisite | |  | | |
| Test Data | |  | | |
| Step | Action | | Expected Result | Success? |
| 1 | On the List Page, Click the Search Button to open the Search Bar | | The Search bar will appear at the top of the List Page. | **or X** |
| 2 | Click on the Search Icon and start typing text to search | | The Contact list will change according to search input. Matching Contacts will appear in the Contact List. |  |
| 3 | Return to the List page with all contacts displayed in the List. Click the Z-A Button | | Contact List should change to order, Alphabetically descending, i.e Z to A |  |
| 4 | Click the A-Z button | | Contact List should change order, Alphabetically ascending, i.e. A to Z |  |

## Test Case ID: 007

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 007 – Able to Synchronise the Local database with the remote database  **Executed by**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Execution Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Scenario**:  **Test Case**: | | | | |
| Prerequisite | |  | | |
| Test Data | |  | | |
| Step | Action | | Expected Result | Success? |
| 1 | On the Main Activity Page, Click the ‘Update Server-Side’ Button | | The App will add the Local Contact List to the Remote database via API. | **or X** |
| 2 | Verify the Local phonebook is synchronized with the remote database | | The Remote database phonebook list should be the same as the Local database. |  |

## Test Case ID: 008

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 008 – Able to use the Camera feature on the App  **Executed by**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Execution Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Scenario**:  **Test Case**: | | | | |
| Prerequisite | |  | | |
| Test Data | |  | | |
| Step | Action | | Expected Result | Success? |
| 1 | On the Main Activity page, Click the ‘Camera’ button | | User is taken to the Camera View Page | **or X** |
| 2 | Click the Camera icon | | User is taken to the camera app, where user can take a photo. |  |
| 3 | Take a photo and click ‘tick’ icon to save image | | User is take back to the Camera View Page and can view the photo taken is step2. |  |

# Schedule

## Test Schedule

|  |  |  |
| --- | --- | --- |
| **Task** | **Start** | **Finish** |
| Perform Testing with Test Plan | 25/6/2020 | 25/6/2020 |

## Deliverables

|  |  |
| --- | --- |
| **Task** | **Date** |
| Test Plan | 25/6/2020 |
| Test Results |  |
| Test Report |  |