Test plan

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# Introduction

This test plan outlines the testing requirements for the Android Phonebook Application.

## Objectives

The goal is to test the functionality of the application/

## Team members

|  |  |
| --- | --- |
| **Name** | **Role** |
| *Qiao Li*  *Jonathan Richardson* | Test Manager  Developer, Tester |

# Features/units to be tested

Features to be tested:

* Colour Theme – Able to apply Light and Dark theme to the app
* Page Navigation – Includes swipe gestures & button clicks
* View recyclerView – View phonebook list data
* CRUD Functionality – Able to Add, Update, Delete a contact
* Sorting the phonebook – Able to sort alphabetically and reverse alphabetically
* Search bar – Able to search for a contact

# 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  **Executed by**: Jonathan Richardson  **Execution Date**: 28/06/2020  **Scenario**: Run the App and navigate through all pages of the app  **Test Case**: Page Navigation | | | | |
| Prerequisite | | Able to run phonebook app on Android device or emulator | | |
| Test Data | |  | | |
| Step | Action | | Expected Result | Success? |
| 1 | Perform swipe gesture on Welcome Page | | The list page loads successfully. | **** |
| 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  **Executed by**: Jonathan Richardson  **Execution Date**: 28/06/2020  **Scenario**: Change colour theme of Phonebook App, select between Dark & Light theme  **Test Case**: Colour theme Feature | | | | |
| Prerequisite | | Able to run phonebook app on Android device or emulator. | | |
| 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). | **** |
| 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: 003

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 003  **Executed by**: Jonathan Richardson  **Execution Date**: 28/06/2020  **Scenario**: On the List Page, user can view contact details on a Details Page  **Test Case**: Details Page | | | | |
| Prerequisite | |  | | |
| Test Data | | *Phonebook List* | | |
| Step | Action | | Expected Result | Success? |
| 1 | From the Welcome Page, Left swipe to  open the List page | | The list page loads and displays all phonebook contacts | **** |
| 2 | Click on a Contact | | The details page loads and the contact’s details are displayed on the Details page. | **** |
| 3 | Click the ‘Back’ button on the Details Page | | The user is returned to the List Page | **** |

## Test Case ID: 004

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 004  **Executed by**: Jonathan Richardson  **Execution Date**: 28/06/2020  **Scenario**:  **Test Case**: Sorting the Phonebook List | | | | |
| Prerequisite | | Phonebook contains contact data to sort | | |
| Test Data | |  | | |
| Step | Action | | Expected Result | Success? |
| 1 | Open the list page | | List page displays all contacts. The contact list should be sorted alphabetically by default. | **** |
| 2 | Click the Z-A floating action button | | The Contact list is sorted in descending order. | **** |
| 3 | Click the A-Z floating action button | | The Contact list is sorted in ascending order. | **** |

## Test Case ID: 005

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 005  **Executed by**: Jonathan Richardson  **Execution Date**: 28/06/2020  **Scenario**:  **Test Case**: Searching for a contact | | | | |
| Prerequisite | | Phonebook contains contact data to search | | |
| Test Data | |  | | |
| Step | Action | | Expected Result | Success? |
| 1 | Open the list page and click the Search floating action button | | The search bar should appear on top of the screen. | **** |
| 2 | Enter text into the search bar | | Search results should start appearing on the screen, matching the closest search results to the text entered. Search occurs for each character entered into the search bar. | **** |
| 3 | Click the Search action button while the search bar is open | | The search bar should close. | **** |

## Test Case ID: 006

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 006  **Executed by**: Jonathan Richardson  **Execution Date**: 28/06/2020  **Scenario**:  **Test Case**: Adding a Contact to the phonebook | | | | |
| 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. | **** |
| 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. | **** |

## Test Case ID: 007

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 007  **Executed by**: Jonathan Richardson  **Execution Date**: 28/06/2020  **Scenario**:  **Test Case**: Editing a Phonebook Contact | | | | |
| Prerequisite | | Phonebook contains contact data to update | | |
| Test Data | |  | | |
| Step | Action | | Expected Result | Success? |
| 1 | Open the list page | | All contacts in the phonebook database are visible on the list page | **** |
| 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: 008

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 008  **Executed by**: Jonathan Richardson  **Execution Date**: 28/06/2020  **Scenario**:  **Test Case**: Deleting a Phonebook Contact | | | | |
| Prerequisite | | Phonebook contains contact data to delete | | |
| Test Data | |  | | |
| Step | Action | | Expected Result | Success? |
| 1 | Open the list page | | All contacts in the phonebook database are visible on the list page | **** |
| 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 | | 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. | **** |

# Schedule

## Test Schedule

|  |  |  |
| --- | --- | --- |
| **Task** | **Start** | **Finish** |
| Perform Testing with Test Plan | 6/4/2020 | 6/4/2020 |

## 

## Deliverables

|  |  |
| --- | --- |
| **Task** | **Date** |
| Test Plan | 28/06/2020 |
| Test Results | 28/06/2020 |
| Test Report | 28/06/2020 |