**Android Project Plan**

1. Design Layouts
   1. Welcome Page
   2. List Page
   3. Add Page
   4. Edit Page
   5. Detail Page
2. Implement page navigation code. i.e. link pages together with the use of user-actions (e.g. gestures. onClick)
3. Code Object classes for the application
   1. Contact Class – properties of a Contact object and getters & setters
   2. Hash Table Class – Hash table algorithms, building the hash table, sorting the hash table
   3. Recycler View Adaptor
   4. Phonebook database
   5. ViewModel Class
4. Code the List page functionality
   1. Recycler View, display the list of contacts from the Phonebook list.
   2. Code the phonebook alphabet navigation buttons
   3. Code functionality for the Sorting Action buttons
   4. Code CRUD functionality
      1. Add Page – Able to enter new contact details and click add to add a new contact to the Phonebook
      2. Edit Page – Able to select a Contact and Update a contact’s details
      3. Delete functionality – Able to drag and drop a contact onto the Delete Floating Action Button to delete a contact.
      4. Read functionality – Able to select a Contact to display a contact’s details in the Detail Page
5. Implement Dark and Light Mode functionality.
6. Implement Database Features – Implement “DAO Room structure” for application to database interaction.