

Homework2 Report:
Abhishek Shankarnarayan
Ruid:179004965

Fragment:

Three Fragments are created for use in this application.

BlankFragment: It holds the List of Contacts and gives the user an option to Add or delete Contact.

ContactDetails: This page accepts User input to Add a new Contact. The user can add name, number and mark all the relatives of the person who are related to the person and a photo of the person.

ContactProfile: This page displays the contact information of the person i.e Name, Number, Relations and a photo of the Contact.

Working in Portrait mode:

Three activities are used for this application. The Main activity holds (Blank Fragment) the list of contacts in the list view. When accessed in portrait mode, on clicking the Add Contact button a new Activity is opened where the Contact details fragment is casted over the Activity. Similarly on clicking on any of the contacts in the list view, a new activity is opened and the Contactprofile fragment is casted on that activity.

Working in Landscape mode:

All the 3 fragments are displayed in the Main Activity based on User clicks.

The Left half of the screen is dedicated for the Blank Fragment. This is achieved using linear layout where the screen is divided into two halves. On clicking the Add button in the Blank Fragment, the ContactDetails Fragment opens up in the right half of the screen. I defined a Framelayout for the right half of the screen. The fragment (I.e ContactProfile and ContactDetails) is then replaced in the FrameLayout Component. On clicking on any contact from the contact list, the ContactProfile fragment is casted on the right hand side of the screen in the FrameLayout Component.

Adapters:

Three adapters are used Contactlist Adapter, finaladapter and Relativelist adapter. The contactlist adapter is used over the Blank Fragment, the Relativelist Adapter is used over the ContactDetails Fragment, this is used to display the Contact list into the the list view in blank fragment and the List of Relations in the ContactDetails Fragment respectively. The final adapter is used to display the relations in the list view in the ContactProfile fragment.

View Holder is used for smoother scrolls in the list View.

Database:

Two main tables were used:

- Table to store the Name and Number (Name is the primary key).
- Table to store Name and relationship