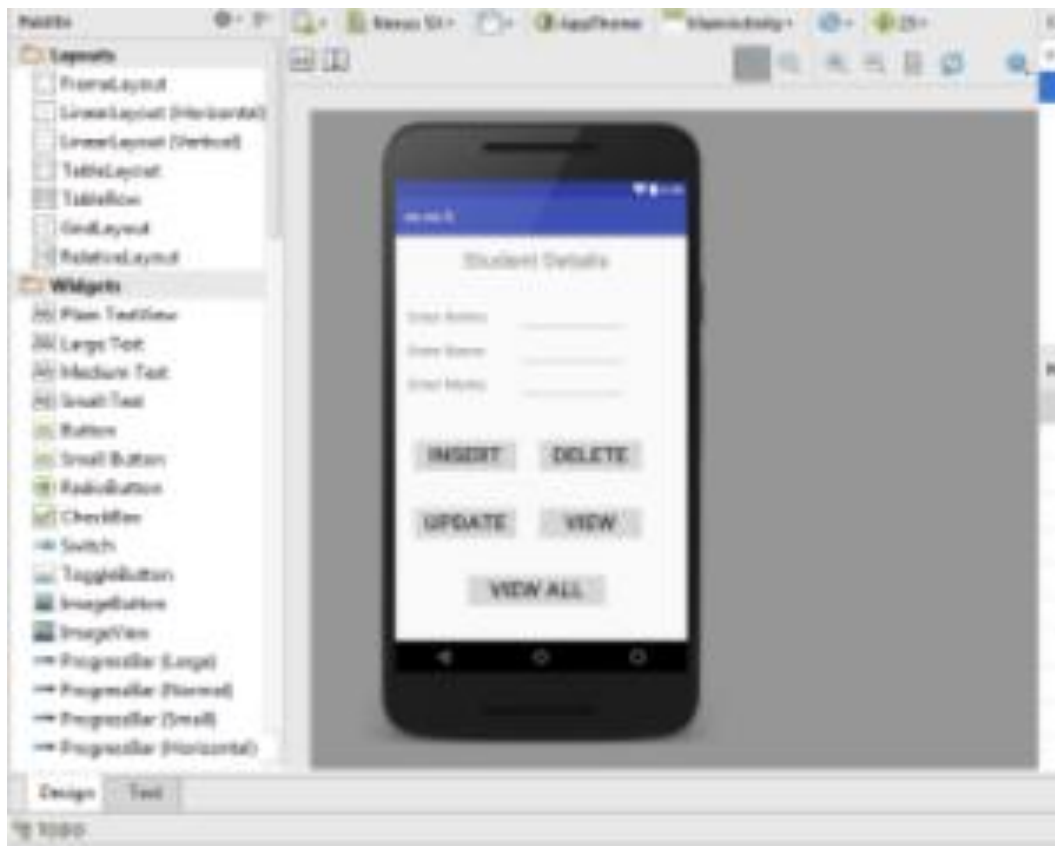
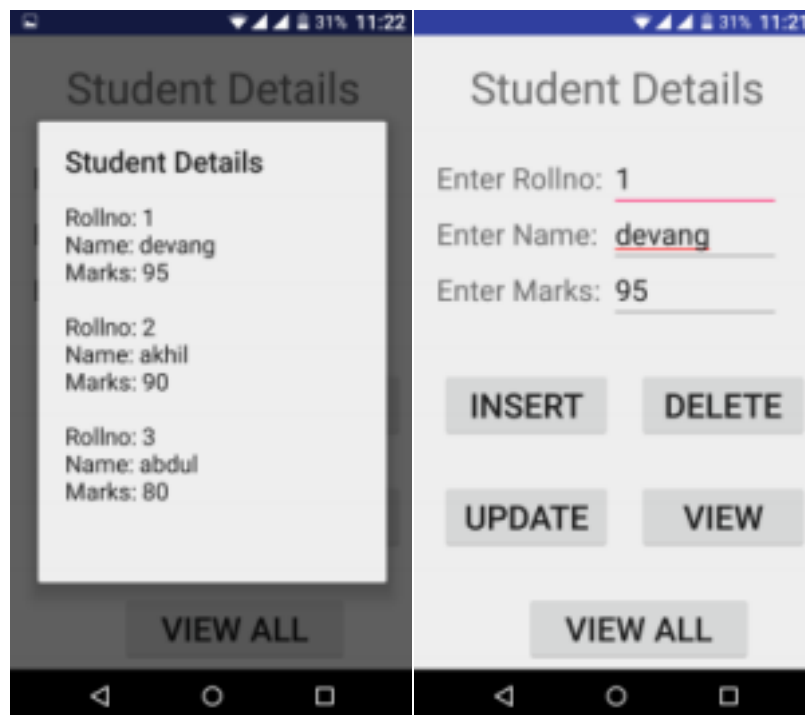
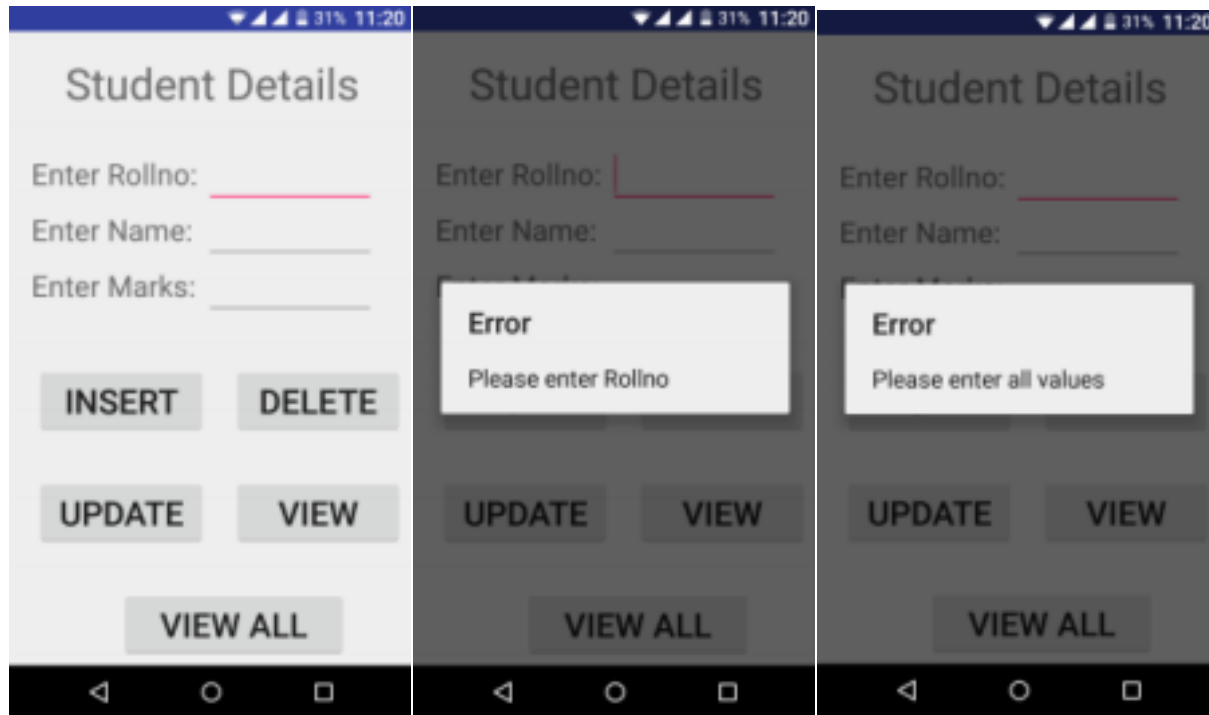


Experiment: 02**Aim: Develop an application that uses database.****Theory:**

- 1) Open android studio and select new android project
- 2) Give project name and select next
- 3) Choose the android version. Choose the lowest android version and select next
- 4) Enter the package name. package name must be two word separated by comma and click finish
- 5) Go to package explorer in the left-hand side. select our project.
- 6) Go to res folder and select layout.





Implementation:

```
import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;

public class MapsActivity extends FragmentActivity implements
OnMapReadyCallback {

// Creating objects

    private DatabaseReference databaseReference;

// Creating Database Reference

    databaseReference =
FirebaseDatabase.getInstance().getReference("Location");

    public void updateButtonOnClick(View view) {

        # Write operation
databaseReference.child("latitude").push().setValue(editTextLatitude.getText().toString());

databaseReference.child("longitude").push().setValue(editTextLongitude.getText().toString());

# Read operation

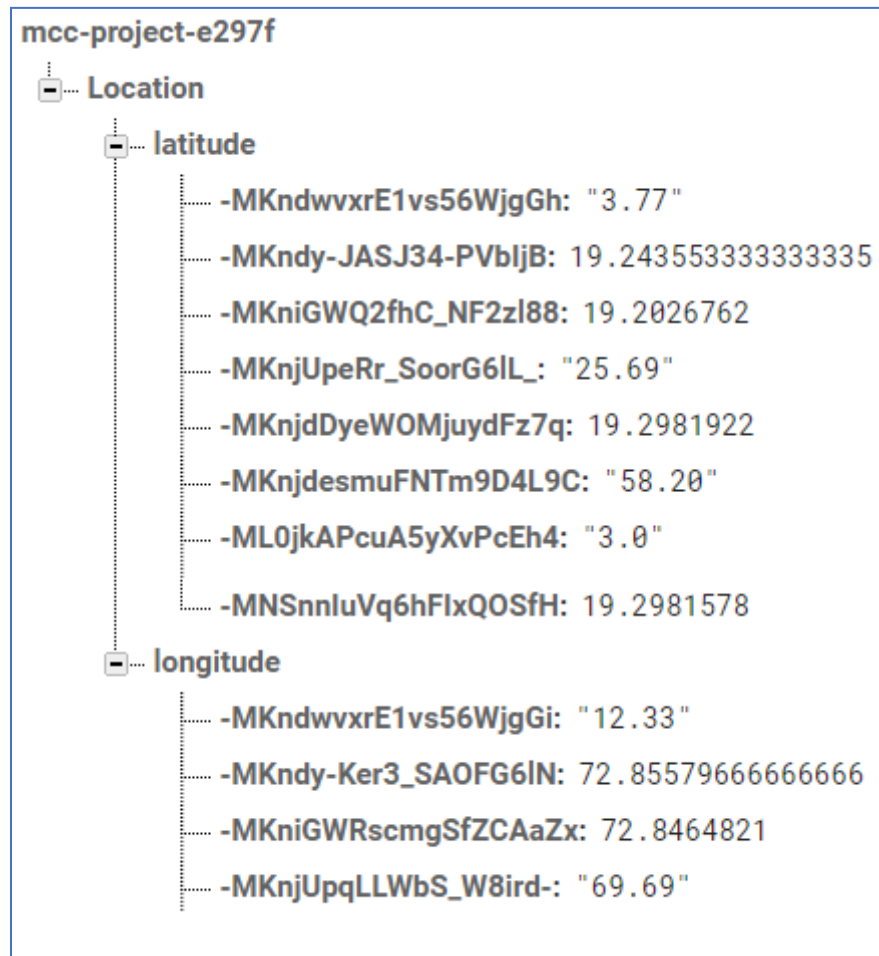
String databaseLatitudeString =
snapshot.child("latitude").getValue().toString().substring(1,snapshot.child("latitude").getValue().toString().length() -1);

String databaseLongitudeString =
snapshot.child("longitude").getValue().toString().substring(1,snapshot.child("longitude").getValue().toString().length() -1);

    }
```

}

Output:



Conclusion:

From this experiment, we learnt how to connect a database with an android application. We used Google Firebase- Realtime database which saves data in json format , tree like structure. When the user presses a button to call his last location, the read operation takes place, which reads, the last value from the database. When the user travels to a location, their current value is written to the database.