#### AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest
xmlns:android="http://schemas.android.com/apk/res/android"
  package="com.example.mypackage.carpool">
  <uses-permission android:name="android.permission.INTERNET"</pre>
/>
  <uses-permission
android:name="android.permission.ACCESS FINE LOCATION" />
  <uses-permission
android:name="android.permission.ACCESS COARSE LOCATION"
/>
  <uses-permission
android:name="android.permission.ACCESS NETWORK STATE" />
  <application
    android:allowBackup="true"
    android:icon="@drawable/logo"
    android:label="@string/app name"
    android:supportsRtl="true"
    android:theme="@style/AppTheme"
    android:usesCleartextTraffic="true">
    <uses-library
       android:name="org.apache.http.legacy"
      android:required="false" />
    <meta-data
       android:name="com.google.android.geo.API KEY"
android:value="AlzaSyCmniVYVmg3fux0bA-3Qi5xTdpc5tAZaGg" />
    <meta-data
       android:name="com.google.android.gms.version"
```

```
android:value="@integer/google play services version" />
       <activity android:name=".Splash">
          <intent-filter>
            <action android:name="android.intent.action.MAIN" />
            <category
  android:name="android.intent.category.LAUNCHER" />
          </intent-filter>
       </activity>
       <activity android:name=".LoginActivity" />
       <activity android:name=".testActivity" />
       <activity android:name=".DriverSignUpActivity" />
       <activity android:name=".RiderSignUpActivity" />
       <activity android:name=".MapActivity" />
       <activity android:name=".RiderActivity"></activity>
     </application>
  </manifest>
• DriverList.java
  package com.example.mypackage.carpool;
  import android.app.Activity;
  import android.support.annotation.NonNull;
  import android.view.LayoutInflater;
  import android.view.View;
  import android.view.ViewGroup;
  import android.widget.ArrayAdapter;
  import android.widget.TextView;
  import java.util.List;
```

```
public class DriverList extends ArrayAdapter<ProfileInformation> {
  private Activity context;
  private List<ProfileInformation> driverList;
  public DriverList(Activity context, List<ProfileInformation>
driverList) {
     super(context, R.layout.list layout, driverList);
     this.driverList = driverList:
    this.context=context:
  }
  @NonNull
  @Override
  public View getView(int position, View convertView, ViewGroup
parent) {
    LayoutInflater inflater = context.getLayoutInflater();
    View listViewItem = inflater.inflate(R.layout.list layout,null,true);
     TextView textViewName =
listViewItem.findViewById(R.id.textViewName);
     TextView textViewDest =
listViewItem.findViewById(R.id.textViewDestination);
     TextView textViewContact =
listViewItem.findViewById(R.id.textViewContact);
     TextView textviewTime =
listViewItem.findViewById(R.id.textViewTime);
     TextView textviewAddress =
listViewItem.findViewById(R.id.textViewAddress);
     ProfileInformation driver = driverList.get(position);
    textViewName.setText(driver.gettheName());
```

```
textViewContact.setText(driver.getthePhone_no());
       textViewDest.setText(driver.gettheDestination());
       textviewTime.setText(driver.gettheTime());
       textviewAddress.setText(driver.gettheAddress());
       return listViewItem;
     }
  }
• Drivers.java
  package com.example.mypackage.carpool;
  public class Drivers{
     private String driverDestination;
     private String driverName;
     private String driverPhone no;
     private String driverTime;
     public Drivers(){
     }
     public Drivers(String destination, String name, String phone no,
  String time) {
       this.driverDestination = destination;
       this.driverName = name;
       this.driverPhone_no = phone_no;
       this.driverTime = time;
     }
     public String getDestination() {
       return driverDestination;
```

```
}
   public String getName() {
     return driverName;
   public String getPhone no() {
     return driverPhone_no;
   }
   public String getTime() {
     return driverTime;
   }
}
DriverSignUpActivity.java
 package com.example.mypackage.carpool;
 import android.content.Intent;
 import android.support.annotation.NonNull;
 import android.support.v7.app.AppCompatActivity;
 import android.os.Bundle;
 import android.text.TextUtils;
 import android.util.Log;
 import android.view.View;
 import android.widget.EditText;
 import android.widget.Toast;
 import com.google.android.gms.tasks.OnCompleteListener;
 import com.google.android.gms.tasks.Task;
 import com.google.firebase.auth.AuthResult;
 import com.google.firebase.auth.FirebaseAuth;
```

```
import com.google.firebase.auth.FirebaseUser;
import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;
public class DriverSignUpActivity extends AppCompatActivity {
  private FirebaseAuth firebaseAuth;
  private DatabaseReference databaseReference;
  private EditText name, phone no, destination, time, address;
  private EditText newUsrName, newPswd;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_driver_sign_up);
    firebaseAuth = FirebaseAuth.getInstance();
    databaseReference =
FirebaseDatabase.getInstance().getReference("drivers");
    name = findViewById(R.id.name);
    phone no = findViewByld(R.id.phone no);
    destination = findViewById(R.id.destination);
    time = findViewById(R.id.time);
    address = findViewById(R.id.address);
    newUsrName = findViewById(R.id.createUsernm);
    newPswd = findViewById(R.id.createPswd);
```

```
}
  public void cancelBtn(View view){
     Log.d("Postion","Inside driver create profile. Cancel button
clicked");
     Intent i = new
Intent(DriverSignUpActivity.this,LoginActivity.class);
     startActivity(i);
  }
  public void createBtn(View view){
     Log.d("Postion","Inside driver create profile");
     //Getting values
     String n = name.getText().toString().trim();
     String pno = phone_no.getText().toString().trim();
     String d = destination.getText().toString().trim();
     String t = time.getText().toString().trim();
     String r = "Driver";
     String a = address.getText().toString().trim();
     String user = newUsrName.getText().toString().trim();
     String pass = newPswd.getText().toString().trim();
     if(TextUtils.isEmpty(user)){
       Toast.makeText(this, "Enter a
username", Toast.LENGTH SHORT).show();
       return;
     if(TextUtils.isEmpty(pass)){
       Toast.makeText(this, "Enter a
password", Toast.LENGTH SHORT).show();
       return;
```

```
if(pass.length()<6){
       Toast.makeText(this, "Password must be atleast 6
characters", Toast. LENGTH SHORT). show();
       return;
    if(TextUtils.isEmpty(n)){
       Toast.makeText(this, "Enter a
name", Toast.LENGTH SHORT).show();
       return;
    if(TextUtils.isEmpty(pno)){
       Toast.makeText(this, "Enter a
phone.no", Toast.LENGTH SHORT).show();
       return;
    if(pno.length()!=10){
       Toast.makeText(this, "Please enter 10 digits for phone
number please", Toast. LENGTH SHORT). show();
       return;
    if(TextUtils.isEmpty(d)){
       Toast.makeText(this, "Enter
destination", Toast.LENGTH SHORT).show();
       return;
    if(TextUtils.isEmpty(t)){
       Toast.makeText(this, "Enter the
time", Toast.LENGTH SHORT).show();
       return;
    if(TextUtils.isEmpty(a)){
       Toast.makeText(this, "Enter an address
```

```
",Toast.LENGTH SHORT).show();
       return;
     }
     final ProfileInformation profileInformation = new
ProfileInformation(n,d,t,r,pno,a);
     firebaseAuth.createUserWithEmailAndPassword(user,pass)
          .addOnCompleteListener(this, new
OnCompleteListener<AuthResult>() {
            @Override
            public void onComplete(@NonNull Task<AuthResult>
task) {
               if(task.isSuccessful()){
                 FirebaseUser user = firebaseAuth.getCurrentUser();
databaseReference.child(user.getUid()).setValue(profileInformation);
                 if(deleteExtra(user.getUid())){
                    Log.d("Success"," Driver Creation successful");
Toast.makeText(DriverSignUpActivity.this,"Successful Driver
Registration.",Toast.LENGTH_LONG).show();
                    finish();
                    Intent i = new Intent(DriverSignUpActivity.this,
testActivity.class);
                    startActivity(i);
                 }
               else{
                 Log.d("Failure"," Driver Registration successful");
                 Toast.makeText(getApplicationContext(),"Error:
Email format is wrong or it already
```

```
exists.",Toast.LENGTH_LONG).show();
            });
     }
     public boolean deleteExtra(String id){
       databaseReference.child(id).child("theName").setValue(null);
       databaseReference.child(id).child("theAddress").setValue(null);
  databaseReference.child(id).child("theDestination").setValue(null);
  databaseReference.child(id).child("thePhone no").setValue(null);
       databaseReference.child(id).child("theTime").setValue(null);
       return true;
     }
  }

    LoginActivity.java

  package com.example.mypackage.carpool;
  import android.content.Intent;
  import android.os.Bundle;
  import android.support.annotation.NonNull;
  import android.support.v7.app.AppCompatActivity;
  import android.text.TextUtils;
  import android.util.Log;
  import android.view.View;
  import android.widget.EditText;
  import android.widget.ProgressBar;
  import android.widget.Toast;
```

```
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.AuthResult;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
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 LoginActivity extends AppCompatActivity {
  private EditText username, password;
  private FirebaseAuth firebaseAuth;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity login);
    username = findViewById(R.id.usernm);
    password = findViewById(R.id.pswd);
    firebaseAuth = FirebaseAuth.getInstance();
    Log.d("Position", "Inside on Create Login Activity");
    if(firebaseAuth.getCurrentUser() != null){
       finish();
       checkWhatUser();
  }
  public void signIn(View view) {
```

```
Log.d("Position","Inside signIn()");
     String user = username.getText().toString().trim();
     String pass = password.getText().toString().trim();
     if(TextUtils.isEmpty(user)){
       Toast.makeText(this, "Enter an
username", Toast. LENGTH SHORT). show();
       return;
     if(TextUtils.isEmpty(pass)){
       Toast.makeText(this, "Enter a
password", Toast.LENGTH SHORT).show();
       return;
     }
     firebaseAuth.signInWithEmailAndPassword(user,pass)
          .addOnCompleteListener(this, new
OnCompleteListener<AuthResult>() {
            @Override
            public void onComplete(@NonNull Task<AuthResult>
task) {
              if(task.isSuccessful()){
                 //add progress bar functionality
                 Log.d("Success", "SignIn successful");
                 checkWhatUser();
              }
               else{
                 Log.d("Fail", "SignIn unsuccessful");
                 Toast.makeText(LoginActivity.this, "Wrong
credentials",Toast.LENGTH LONG).show();
              }
```

```
}
          });
  }
  public void checkWhatUser(){
     FirebaseDatabase database = FirebaseDatabase.getInstance();
     DatabaseReference myRef = database.getReference();
     FirebaseUser user = firebaseAuth.getCurrentUser();
myRef.child("riders").child(user.getUid()).child("Role").addValueEvent
Listener(new ValueEventListener() {
       @Override
       public void onDataChange(@NonNull DataSnapshot
dataSnapshot) {
          try{
            if(dataSnapshot.getValue()!=null){
               try{
if("Rider".equals(dataSnapshot.getValue().toString())){
                    finish();
                    Intent i = new Intent(LoginActivity.this,
RiderActivity.class);
                    startActivity(i);
                 }
                 else{
                    Log.d("Rider Not Found","Value with rider user-id
not found");
                 }
               }catch(Exception e){
                 Log.d("Rider Error in Log-In identity Line 1",""+e);
               }
```

```
}
            else{
               Log.d("Rider dataSnapshot.getValue()","is null");
             }
          }catch(Exception e){
             Log.d("Rider Error in Log-In identity Line 2",""+e);
          }
       }
       @Override
       public void on Cancelled (@NonNull Database Error
databaseError) {
          Log.d("Rider onCancelled","Cancelled");
       }
     });
myRef.child("drivers").child(user.getUid()).child("Role").addValueEve
ntListener(new ValueEventListener() {
       @Override
       public void onDataChange(@NonNull DataSnapshot
dataSnapshot) {
          try{
            if(dataSnapshot.getValue()!=null){
               try{
if("Driver".equals(dataSnapshot.getValue().toString())){
                    finish();
                    Intent i = new Intent(LoginActivity.this,
testActivity.class);
                    startActivity(i);
                  }
                  else{
```

```
Log.d("Driver Not Found","Value with user-id not
found");
                  }
               }catch(Exception e){
                  Log.d("Driver Error in Log-In identity Line 1",""+e);
               }
             }
             else{
               Log.d("Driver dataSnapshot.getValue()","is null");
             }
          }catch(Exception e){
             Log.d("Driver Error in Log-In identity Line 2",""+e);
          }
       }
        @Override
       public void on Cancelled (@NonNull Database Error
databaseError) {
          Log.d("Driver onCancelled","Cancelled");
       }
     });
  public void driverSignUp(View view){
     Log.d("Position","Inside driver signUp()");
     finish();
     Intent i = new Intent(LoginActivity.this,
DriverSignUpActivity.class);
     startActivity(i);
  }
  public void riderSignUp(View view){
```

```
Log.d("Position","Inside rider signUp()");
finish();
Intent i = new Intent(LoginActivity.this,
RiderSignUpActivity.class);
startActivity(i);
}
```

# MapActivity.java

```
package com.example.mypackage.carpool;
```

```
import android. Manifest;
import android.content.pm.PackageManager;
import android.location.Address;
import android.location.Geocoder;
import android.location.Location;
import android.os.Bundle;
import android.support.annotation.NonNull;
import android.support.annotation.Nullable;
import android.support.v4.app.ActivityCompat;
import android.support.v4.content.ContextCompat;
import android.support.v7.app.AppCompatActivity;
import android.util.Log;
import android.view.KeyEvent;
import android.view.View;
import android.view.inputmethod.EditorInfo;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;
```

### import

com.google.android.gms.location.FusedLocationProviderClient; import com.google.android.gms.location.LocationServices; import com.google.android.gms.maps.CameraUpdateFactory; import com.google.android.gms.maps.GoogleMap; import com.google.android.gms.maps.OnMapReadyCallback; import com.google.android.gms.maps.SupportMapFragment; import com.google.android.gms.maps.model.LatLng; import com.google.android.gms.maps.model.LatLngBounds; import com.google.android.gms.maps.model.MarkerOptions; import com.google.android.gms.tasks.OnCompleteListener; import com.google.android.gms.tasks.Task;

import java.io.IOException; import java.util.ArrayList; import java.util.List;

public class MapActivity extends AppCompatActivity implements
OnMapReadyCallback{

private static final String FINE\_LOCATION =
Manifest.permission.ACCESS\_FINE\_LOCATION;
private static final String COARSE\_LOCATION =
Manifest.permission.ACCESS\_COARSE\_LOCATION;

private static final LatLngBounds LAT\_LNG\_BOUNDS = new LatLngBounds(

new LatLng(-40,-168),new LatLng(71,136));

private Boolean locationPermissionGranted= false; private static final int LOCATION\_REQUEST\_CODE =1234; private GoogleMap mMap;

```
private FusedLocationProviderClient
mfusedLocationProviderClient;
  private float DEFAULT ZOOM = 15f;
  //Widgets
  private EditText mSearchText;
  private ImageView mGps;
  @Override
  protected void onCreate(@Nullable Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity map);
    mSearchText = (EditText) findViewById(R.id.input_search);
    mGps = (ImageView)findViewById(R.id.ic gps);
    getPermission();
  }
  private void getPermission(){
    Log.d("Map Status", "Getting permission");
    String[] permissions = {
         Manifest.permission.ACCESS FINE LOCATION,
         Manifest.permission.ACCESS COARSE LOCATION};
if(ContextCompat.checkSelfPermission(this.getApplicationContext(),
         FINE LOCATION) ==
PackageManager.PERMISSION GRANTED){
if(ContextCompat.checkSelfPermission(this.getApplicationContext(),
           COARSE LOCATION) ==
PackageManager.PERMISSION GRANTED) {
         locationPermissionGranted=true:
```

```
initMap();
       }else{
         ActivityCompat.requestPermissions(this,permissions,
LOCATION REQUEST CODE);
    }
    else{
      ActivityCompat.requestPermissions(this,permissions,
LOCATION REQUEST CODE);
    }
  }
  private void initMap(){
    Log.d("Map Status", "Initializing");
    SupportMapFragment mapFragment=(SupportMapFragment)
getSupportFragmentManager().findFragmentById(R.id.map);
    mapFragment.getMapAsync(MapActivity.this);
  }
  @Override
  public void onMapReady(GoogleMap googleMap) {
    Log.d("Map Status", "Ready");
    Toast.makeText(MapActivity.this, "Map is ready",
Toast.LENGTH LONG).show();
    mMap = googleMap;
    if (locationPermissionGranted) {
       getDeviceLocation();
      if (ActivityCompat.checkSelfPermission(this,
Manifest.permission.ACCESS FINE LOCATION)
           != PackageManager.PERMISSION GRANTED &&
ActivityCompat.checkSelfPermission(this,
```

```
Manifest.permission.ACCESS COARSE LOCATION) !=
PackageManager.PERMISSION_GRANTED) {
         // TODO: Consider calling
         // ActivityCompat#requestPermissions
         // here to request the missing permissions, and then
overriding
         // public void onRequestPermissionsResult(int
requestCode, String[] permissions,
                                    int[] grantResults)
         //
         // to handle the case where the user grants the permission.
See the documentation
         // for ActivityCompat#requestPermissions for more details.
         return;
       }
       mMap.setMyLocationEnabled(true);
       mMap.getUiSettings().setMyLocationButtonEnabled(false);
       init();
    }
  }
  private void getDeviceLocation(){
    Log.d("Get location", "Getting");
    mfusedLocationProviderClient =
LocationServices.getFusedLocationProviderClient(this);
    try{
       if(locationPermissionGranted){
         Task location =
mfusedLocationProviderClient.getLastLocation();
         location.addOnCompleteListener(new
OnCompleteListener() {
            @Override
            public void onComplete(@NonNull Task task) {
```

```
if(task.isSuccessful()){
                 Log.d("Get location","Found");
                 Location currentLocation =
(Location)task.getResult();
                 moveCamera(new
LatLng(currentLocation.getLatitude(),currentLocation.getLongitude()),
DEFAULT ZOOM, "Me");
              }else{
                 Log.d("Get location","Cannot find");
                 Toast.makeText(MapActivity.this,"Unable to get
current location", Toast. LENGTH LONG). show();
          });
    }catch(SecurityException e){
       Log.d("Get Location","Exception" + e);
    }
  }
  private void moveCamera(LatLng latLng, float zoom, String title){
     Log.d("Camera","Moving to lat :: " + latLng.latitude + " lon
::"+latLng.longitude);
mMap.moveCamera(CameraUpdateFactory.newLatLngZoom(latLng,
zoom));
    if(!title.equals("Me")) {
       MarkerOptions options = new
MarkerOptions().position(latLng).title(title);
       mMap.addMarker(options);
  }
```

```
private void init(){
     Log.d("Msg","Initializing");
     mSearchText.setOnEditorActionListener(new
TextView.OnEditorActionListener() {
       @Override
       public boolean onEditorAction(TextView v, int actionId,
KeyEvent keyEvent) {
         if(actionId== EditorInfo.IME ACTION SEARCH
              || actionId==EditorInfo.IME ACTION DONE
              || keyEvent.getAction()==KeyEvent.ACTION DOWN
//Enter option in keyboard
keyEvent.getAction()==KeyEvent.KEYCODE ENTER)
            geoLocate();
         return false;
       }
    });
     mGps.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         Log.d("Action","Get my location");
         getDeviceLocation();
    });
  private void geoLocate(){
     Log.d("GeoLocate func","Locating");
```

```
String searchString = mSearchText.getText().toString();
     Geocoder geocoder = new Geocoder(MapActivity.this);
     List<Address> list = new ArrayList<>();
     try{
       list=geocoder.getFromLocationName(searchString,1);
     }catch(IOException e){
       Log.d("Geolocation func error",""+e.getMessage());
     }
    if(list.size()>0){
       Address address =list.get(0);
       Log.d("GeoLocation", "Found this :: "+address.toString());
//Toast.makeText(MapActivity.this,""+address.toString(),Toast.LENG
TH SHORT).show();
       moveCamera(new
LatLng(address.getLatitude(),address.getLongitude()),DEFAULT ZO
OM,address.getAddressLine(0));
  }
  @Override
  public void onRequestPermissionsResult(int requestCode,
@NonNull String[] permissions, @NonNull int[] grantResults) {
     Log.d("Map Status", "On request Permission result called");
     locationPermissionGranted = false;
     switch(requestCode){
       case LOCATION REQUEST CODE:
```

```
if(grantResults.length>0){
               for(int i= 0;i<grantResults.length;i++){</pre>
  if(grantResults[i]!=PackageManager.PERMISSION GRANTED){
                    locationPermissionGranted=false;
                    Log.d("Map Status","On request permission -
  failed");
                    return;
               locationPermissionGranted=true;
               Log.d("Map Status", "On request permission - success");
               initMap();
            }
  }
• ProfileInformation.java
  package com.example.mypackage.carpool;
  public class ProfileInformation {
     public String Name, Destination, Time, Role, Phone no, Address;
     public ProfileInformation(){ }
     public ProfileInformation(String name, String destination, String
  time, String role, String phone no, String address){
       this.Name = name;
       this.Destination = destination;
       this.Role = role;
```

```
this.Time = time;
    this. Phone no = phone no;
    this.Address = address;
  }
  public ProfileInformation(String name, String phone no, String role
){
    this.Name = name;
    this.Role = role;
    this.Phone_no = phone_no;
  }
  public String gettheName() {
    return Name;
  }
  public String gettheDestination() {
    return Destination;
  }
  public String gettheTime() {
    return Time;
  }
  public String gettheAddress() {
    return Address;
  }
  public String getthePhone_no() {
    return Phone no;
  }
```

}

# RiderActivity.java

```
package com.example.mypackage.carpool;
import android.app.Dialog;
import android.content.Intent;
import android.os.Bundle;
import android.support.annotation.NonNull;
import android.support.v7.app.AppCompatActivity;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.ListView;
import android.widget.Toast;
import com.google.android.gms.common.ConnectionResult;
import com.google.android.gms.common.GoogleApiAvailability;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
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;
import java.util.ArrayList;
import java.util.List;
```

public class RiderActivity extends AppCompatActivity {

```
ListView listViewDrivers;
  List<ProfileInformation> driversList;
  DatabaseReference databaseReference;
  FirebaseAuth firebaseAuth;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_rider);
     databaseReference =
FirebaseDatabase.getInstance().getReference("drivers");
    listViewDrivers = findViewById(R.id.listViewDrivers);
    driversList = new ArrayList<>();
    firebaseAuth = FirebaseAuth.getInstance();
    if(firebaseAuth.getCurrentUser() == null){
       finish();
       Intent i = new Intent(this, LoginActivity.class);
       startActivity(i);
    if(isServicesOk())
       callMap();
  }
  @Override
  protected void onStart() {
    super.onStart();
    databaseReference.addValueEventListener(new
ValueEventListener() {
```

```
@Override
       public void onDataChange(@NonNull DataSnapshot
dataSnapshot) {
          driversList.clear();
          for( DataSnapshot driverSnapshot :
dataSnapshot.getChildren()){
            ProfileInformation driver =
driverSnapshot.getValue(ProfileInformation.class);
            driversList.add(driver);
          DriverList adapter = new DriverList(RiderActivity.this,
driversList);
          listViewDrivers.setAdapter(adapter);
       @Override
       public void on Cancelled (@NonNull Database Error
databaseError) {
       }
    });
  }
  private void callMap(){
     Button b = (Button)findViewById(R.id.button);
     b.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
          Intent i = new Intent(RiderActivity.this,MapActivity.class);
          startActivity(i);
       }
     });
```

```
}
  //Checking google services
  public boolean isServicesOk(){
    Log.d("Yes","Checking services");
    int available =
GoogleApiAvailability.getInstance().isGooglePlayServicesAvailable(Ri
derActivity.this);
    if(available == ConnectionResult.SUCCESS){
       Log.d("Yes","Connection and Services exist");
       return true;
    }
     else
if(GoogleApiAvailability.getInstance().isUserResolvableError(availabl
e)){
       Log.d("Yes","Works but has errors");
       int n1=0;
       Dialog dialog =
GoogleApiAvailability.getInstance().getErrorDialog(RiderActivity.this,
available,n1);
       dialog.show();
    else{
       Toast.makeText(RiderActivity.this, "NO",
Toast.LENGTH SHORT).show();
    return false;
  public void logout(View view){
    firebaseAuth.signOut();
    Toast.makeText(this, "Log out successful",
Toast.LENGTH LONG).show();
```

```
finish();
       Intent i = new Intent(this, LoginActivity.class);
       startActivity(i);
     }
  }
RiderSignUpActivity.java
  package com.example.mypackage.carpool;
  import android.content.Intent;
  import android.support.annotation.NonNull;
  import android.support.v7.app.AppCompatActivity;
  import android.os.Bundle;
  import android.text.TextUtils;
  import android.util.Log;
  import android.view.View;
  import android.widget.EditText;
  import android.widget.Toast;
  import com.google.android.gms.tasks.OnCompleteListener;
  import com.google.android.gms.tasks.Task;
  import com.google.firebase.auth.AuthResult;
  import com.google.firebase.auth.FirebaseAuth;
  import com.google.firebase.auth.FirebaseUser;
  import com.google.firebase.database.DatabaseReference;
  import com.google.firebase.database.FirebaseDatabase;
  public class RiderSignUpActivity extends AppCompatActivity {
     private FirebaseAuth firebaseAuth;
```

private DatabaseReference databaseReference;

```
private EditText name, phone no;
  private EditText newUsrName, newPswd;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity rider sign up);
    firebaseAuth = FirebaseAuth.getInstance();
     databaseReference =
FirebaseDatabase.getInstance().getReference("riders");
    name = findViewById(R.id.name);
    phone no = findViewById(R.id.phone no);
    newUsrName = findViewById(R.id.createUsernm);
    newPswd = findViewById(R.id.createPswd);
  }
  public void cancelBtn(View view){
    Log.d("Postion", "Inside driver create profile. Cancel button
clicked");
     Intent i = new
Intent(RiderSignUpActivity.this,LoginActivity.class);
    startActivity(i);
  }
  public void createBtn(View view){
    Log.d("Postion","Inside driver create profile");
    //Getting values
    String n = name.getText().toString().trim();
```

```
String pno = phone_no.getText().toString().trim();
    String r = "Rider";
    String user = newUsrName.getText().toString().trim();
    String pass = newPswd.getText().toString().trim();
    if(TextUtils.isEmpty(n)){
       Toast.makeText(this, "Enter a
name", Toast.LENGTH SHORT).show();
       return;
    if(TextUtils.isEmpty(pno)){
       Toast.makeText(this, "Enter a
phone.no", Toast.LENGTH SHORT).show();
       return;
    if(pno.length()!=10){
       Toast.makeText(this, "Please enter 10 digits for phone
number please", Toast. LENGTH SHORT). show();
       return;
    if(TextUtils.isEmpty(user)){
       Toast.makeText(this, "Enter a
username", Toast. LENGTH SHORT). show();
       return;
    if(TextUtils.isEmpty(pass)){
       Toast.makeText(this, "Enter a
password", Toast.LENGTH SHORT).show();
       return;
    if(pass.length()<6){
       Toast.makeText(this, "Password must be atleast 6
```

```
characters", Toast. LENGTH SHORT). show();
       return;
     }
     final ProfileInformation profileInformation = new
ProfileInformation(n,pno,r);
     firebaseAuth.createUserWithEmailAndPassword(user,pass)
          .addOnCompleteListener(this, new
OnCompleteListener<AuthResult>() {
            @Override
            public void onComplete(@NonNull Task<AuthResult>
task) {
               if(task.isSuccessful()){
                 FirebaseUser user = firebaseAuth.getCurrentUser();
databaseReference.child(user.getUid()).setValue(profileInformation);
                 Log.d("Success","Rider Creation successful");
Toast.makeText(getApplicationContext(),"Successful Rider
Registration.Please login to
continue", Toast.LENGTH LONG).show();
                 finish();
                 Intent i = new Intent(RiderSignUpActivity.this,
LoginActivity.class);
                 startActivity(i);
               }
               else{
                 Log.d("Failure", "Rider Registration successful");
                 Toast.makeText(RiderSignUpActivity.this,"Error:
Email format is wrong or it already
exists.", Toast.LENGTH LONG).show();
            }
```

```
});
     }
  }
• Splash.java
  package com.example.mypackage.carpool;
  import android.content.Intent;
  import android.os.Bundle;
  import android.os.Handler;
  import android.support.annotation.Nullable;
  import android.support.v7.app.AppCompatActivity;
  public class Splash extends AppCompatActivity {
     @Override
     public void onCreate(@Nullable Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.splash_layout);
       new Handler().postDelayed(new Runnable() {
          @Override
          public void run() {
            Intent i = new Intent(Splash.this, LoginActivity.class);
            startActivity(i);
            finish();
       }, 3000);
  }
```

# testActivity.java

```
package com.example.mypackage.carpool;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
public class testActivity extends AppCompatActivity {
  private FirebaseAuth firebaseAuth;
  private DatabaseReference databaseReference;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity test);
    firebaseAuth = FirebaseAuth.getInstance();
    databaseReference =
FirebaseDatabase.getInstance().getReference("drivers");
    //firebaseAuth.getCurrentUser();
    if(firebaseAuth.getCurrentUser() == null){
       finish();
```

```
Intent i = new Intent(this, LoginActivity.class);
          startActivity(i);
     }
     public void logout(View view){
       firebaseAuth.signOut();
       finish();
       Intent i = new Intent(this, LoginActivity.class);
       startActivity(i);
     }
     public void delete(View view){
       FirebaseUser user = firebaseAuth.getCurrentUser();
       databaseReference.child(user.getUid()).setValue(null);
       user.delete();
       Toast.makeText(this, "Successful profile deletion",
  Toast.LENGTH LONG).show();
       logout(view);
     }
  }
• white_border.xml
  <?xml version="1.0" encoding="utf-8"?>
  < layer-list
  xmlns:android="http://schemas.android.com/apk/res/android">
     <item>
       <shape android:shape="rectangle">
          <solid android:color="#fff"/>
          <corners android:radius="5dp"/>
       </shape>
```

```
</item>
  </layer-list>
• activity_driver_sign_up.xml
  <?xml version="1.0" encoding="utf-8"?>
  <android.support.constraint.ConstraintLayout</pre>
  xmlns:android="http://schemas.android.com/apk/res/android"
     xmlns:app="http://schemas.android.com/apk/res-auto"
     xmlns:tools="http://schemas.android.com/tools"
     android:layout width="match parent"
     android:layout height="match parent"
     tools:context=".DriverSignUpActivity"
     tools:layout editor absoluteY="25dp">
     <TextView
       android:id="@+id/textView3"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout marginStart="16dp"
       android:text="@string/dsignup"
       android:textColor="@color/greenBg"
       android:textSize="50sp"
       android:textStyle="bold"
       app:layout constraintStart toStartOf="parent"
       app:layout constraintTop toTopOf="parent" />
     <TextView
       android:id="@+id/textView10"
       android:layout width="wrap content"
       android:layout height="wrap content"
```

android:layout\_marginStart="4dp"
android:layout marginTop="14dp"

android:text="@string/username box"

```
android:textColor="@color/greenBg"
  android:textSize="25sp"
  android:textStyle="bold"
  app:layout constraintStart toStartOf="@+id/createUsernm"
  app:layout constraintTop toBottomOf="@+id/textView3" />
<TextView
  android:id="@+id/textView11"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginTop="11dp"
  android:layout marginEnd="7dp"
  android:text="@string/password box"
  android:textColor="@color/greenBg"
  android:textSize="25sp"
  android:textStyle="bold"
  app:layout constraintEnd toEndOf="@+id/textView14"
  app:layout constraintTop toBottomOf="@+id/textView14" />
<Button
  android:id="@+id/createBtn"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginStart="84dp"
  android:layout marginBottom="16dp"
  android:background="@color/greenBg"
  android:onClick="createBtn"
  android:text="@string/create"
  app:layout constraintBottom toBottomOf="parent"
  app:layout constraintStart toStartOf="parent" />
<Button
  android:id="@+id/cancelBtn"
```

```
android:layout_width="wrap content"
  android:layout height="wrap content"
  android:layout marginStart="79dp"
  android:layout marginEnd="79dp"
  android:layout marginBottom="16dp"
  android:background="@color/greenBg"
  android:onClick="cancelBtn"
  android:text="@string/cancel"
  app:layout constraintBottom toBottomOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintStart toStartOf="@+id/address" />
<EditText
  android:id="@+id/createUsernm"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginEnd="3dp"
  android:layout marginBottom="12dp"
  android:ems="10"
  android:hint="@string/username_hint"
  android:inputType="textPersonName"
  app:layout constraintBottom toBottomOf="@+id/textView14"
  app:layout_constraintEnd_toEndOf="@+id/textView14" />
<EditText
  android:id="@+id/createPswd"
  android:layout_width="wrap content"
  android:layout height="wrap content"
  android:layout marginTop="23dp"
  android:layout marginEnd="1dp"
  android:ems="10"
  android:inputType="textPassword"
```

```
app:layout constraintEnd toEndOf="@+id/textView11"
  app:layout constraintTop toTopOf="@+id/textView11" />
<TextView
  android:id="@+id/textView14"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginTop="26dp"
  android:text="@string/username box hint"
  android:textColor="@color/greenBg"
  android:textStyle="bold"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintStart toStartOf="parent"
  app:layout constraintTop toBottomOf="@+id/textView10" />
<TextView
  android:id="@+id/textView15"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginStart="3dp"
  android:text="@string/password box hint"
  android:textColor="@color/greenBg"
  android:textStyle="bold"
  app:layout constraintBottom toBottomOf="@+id/createPswd"
  app:layout constraintStart toStartOf="@+id/createPswd"
  app:layout constraintTop toBottomOf="@+id/createPswd" />
<TextView
  android:id="@+id/textView5"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginTop="4dp"
  android:text="@string/phone"
```

```
android:textColor="@color/greenBg"
  android:textSize="15sp"
  android:textStyle="bold"
  app:layout constraintEnd toStartOf="@+id/textView4"
  app:layout constraintStart toStartOf="@+id/textView4"
  app:layout constraintTop toBottomOf="@+id/name" />
<TextView
  android:id="@+id/textView7"
  android:layout width="wrap content"
  android:layout_height="wrap content"
  android:layout marginTop="4dp"
  android:text="@string/destination"
  android:textColor="@color/greenBg"
  android:textSize="15sp"
  android:textStyle="bold"
  app:layout constraintEnd toStartOf="@+id/textView9"
  app:layout constraintStart toStartOf="@+id/textView9"
  app:layout constraintTop toBottomOf="@+id/phone no" />
<TextView
  android:id="@+id/textView4"
  android:layout width="wrap content"
  android:layout_height="wrap content"
  android:layout marginEnd="3dp"
  android:text="@string/name"
  android:textColor="@color/greenBg"
  android:textSize="15sp"
  android:textStyle="bold"
  app:layout constraintBottom toTopOf="@+id/phone no"
  app:layout_constraintEnd_toStartOf="@+id/name" />
```

<TextView

```
android:id="@+id/textView8"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginStart="9dp"
  android:text="@string/example"
  android:textColor="@color/greenBg"
  android:textSize="15sp"
  android:textStyle="bold"
  app:layout constraintBottom toBottomOf="@+id/destination"
  app:layout constraintStart toStartOf="@+id/destination"
  app:layout constraintTop toBottomOf="@+id/destination" />
<TextView
  android:id="@+id/textView9"
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:layout marginEnd="17dp"
  android:layout marginBottom="8dp"
  android:text="@string/time"
  android:textColor="@color/greenBg"
  android:textSize="15sp"
  android:textStyle="bold"
  app:layout constraintBottom toBottomOf="@+id/time"
  app:layout_constraintEnd_toStartOf="@+id/time" />
<EditText
  android:id="@+id/name"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginEnd="31dp"
  android:ems="10"
  android:hint="@string/name_hint"
  android:inputType="textPersonName"
```

```
app:layout constraintBaseline toBaselineOf="@+id/textView4"
  app:layout_constraintEnd_toEndOf="parent" />
<EditText
  android:id="@+id/phone no"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginTop="56dp"
  android:ems="10"
  android:hint="@string/phone hint"
  android:inputType="number|phone"
  app:layout constraintStart toStartOf="@+id/name"
  app:layout constraintTop toBottomOf="@+id/textView15" />
<EditText
  android:id="@+id/destination"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginTop="20dp"
  android:ems="10"
  android:hint="@string/destination_hint"
  android:inputType="textPersonName"
  app:layout constraintStart toStartOf="@+id/phone no"
  app:layout constraintTop toTopOf="@+id/textView5" />
<EditText
  android:id="@+id/time"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:ems="10"
  android:hint="@string/time hint"
  android:inputType="time"
  app:layout constraintStart toStartOf="@+id/destination"
```

```
app:layout_constraintTop_toBottomOf="@+id/destination" />
```

```
<TextView
  android:id="@+id/textView"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginTop="14dp"
  android:layout marginEnd="15dp"
  android:text="@string/address"
  android:textColor="@color/greenBg"
  android:textStyle="bold"
  app:layout constraintEnd toStartOf="@+id/address"
  app:layout constraintTop toBottomOf="@+id/time" />
<EditText
  android:id="@+id/address"
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:ems="10"
  android:inputType="textMultiLine"
  app:layout constraintBaseline toBaselineOf="@+id/textView"
  app:layout_constraintStart_toStartOf="@+id/time" />
```

</android.support.constraint.ConstraintLayout>

# • activity\_login.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"</pre>
```

```
android:layout height="match parent"
tools:context=".LoginActivity"
tools:layout editor absoluteY="25dp">
<lmageView</pre>
  android:id="@+id/imageView"
  android:layout width="0dp"
  android:layout height="0dp"
  android:layout marginStart="67dp"
  android:layout marginTop="25dp"
  android:layout marginEnd="67dp"
  android:layout marginBottom="47dp"
  android:contentDescription="@string/empty"
  app:layout constraintBottom toTopOf="@+id/textViewName"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintStart toStartOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  app:srcCompat="@drawable/logo" />
<TextView
  android:id="@+id/textViewName"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginEnd="37dp"
  android:layout marginBottom="6dp"
  android:clickable="false"
  android:text="@string/username"
  android:textColor="@color/greenBg"
  android:textStyle="bold"
  app:layout constraintBottom toTopOf="@+id/usernm"
  app:layout constraintEnd toEndOf="@+id/textView13"
  app:layout constraintTop toBottomOf="@+id/imageView" />
```

```
<TextView
  android:id="@+id/textView2"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginBottom="11dp"
  android:text="@string/password"
  android:textColor="@color/greenBg"
  android:textStyle="bold"
  app:layout constraintBottom toTopOf="@+id/pswd"
  app:layout constraintEnd toEndOf="@+id/pswd"
  app:layout_constraintStart_toStartOf="@+id/pswd"
  app:layout constraintTop toBottomOf="@+id/usernm" />
<EditText
  android:id="@+id/usernm"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginBottom="13dp"
  android:ems="10"
  android:hint="@string/username hint"
  android:inputType="textPersonName"
  app:layout constraintBottom toTopOf="@+id/textView2"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintStart toStartOf="parent"
  app:layout constraintTop toBottomOf="@+id/textViewName" />
<EditText
  android:id="@+id/pswd"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginBottom="7dp"
  android:ems="10"
  android:hint="@string/password hint"
```

```
android:inputType="textPassword"
  app:layout constraintBottom toTopOf="@+id/signInBtn"
  app:layout constraintStart toStartOf="@+id/usernm"
  app:layout_constraintTop_toBottomOf="@+id/textView2" />
<Button
  android:id="@+id/signInBtn"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginBottom="42dp"
  android:backgroundTint="@color/greenBg"
  android:onClick="signIn"
  android:text="@string/signin"
  app:layout constraintBottom toTopOf="@+id/textView12"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintStart toStartOf="parent"
  app:layout constraintTop toBottomOf="@+id/pswd" />
<TextView
  android:id="@+id/textView12"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginBottom="26dp"
  android:text="@string/new member"
  android:textSize="20sp"
  android:visibility="visible"
  app:layout constraintBottom toTopOf="@+id/textView17"
  app:layout constraintStart toEndOf="@+id/textView16"
  app:layout constraintTop toBottomOf="@+id/signInBtn" />
<TextView
  android:id="@+id/textView16"
  android:layout_width="wrap content"
```

```
android:layout height="wrap content"
  android:layout marginStart="3dp"
  android:layout marginTop="26dp"
  android:layout marginEnd="6dp"
  android:clickable="true"
  android:onClick="driverSignUp"
  android:text="@string/driver member"
  android:textColor="@color/greenBg"
  android:textSize="20sp"
  app:layout constraintEnd toStartOf="@+id/textView17"
  app:layout constraintStart toStartOf="parent"
  app:layout constraintTop toBottomOf="@+id/textView12" />
<TextView
  android:id="@+id/textView17"
  android:layout width="wrap content"
  android:layout_height="wrap content"
  android:layout marginBottom="44dp"
  android:clickable="true"
  android:onClick="riderSignUp"
  android:text="@string/rider member"
  android:textColor="@color/greenBg"
  android:textSize="20sp"
  app:layout constraintBottom toBottomOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintStart toEndOf="@+id/textView16"
  app:layout constraintTop toBottomOf="@+id/textView12" />
<TextView
  android:id="@+id/textView13"
  android:layout width="wrap content"
  android:layout height="wrap content"
```

```
android:layout marginBottom="13dp"
       android:text="@string/app name"
       android:textColor="@color/black"
       android:textSize="40sp"
       android:textStyle="bold"
       app:layout_constraintBottom_toTopOf="@+id/textViewName"
       app:layout constraintEnd toEndOf="parent"
       app:layout constraintStart toStartOf="parent" />
  </android.support.constraint.ConstraintLayout>
activity_map.xml
  <?xml version="1.0" encoding="utf-8"?>
  <RelativeLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout width="match parent"
    android:layout_height="match parent">
     <fragment
  xmlns:android="http://schemas.android.com/apk/res/android"
       xmlns:tools="http://schemas.android.com/tools"
       android:layout_width="match_parent"
       android:layout height="match parent"
       android:id="@+id/map"
       tools:context=".MapsActivity"
  android:name="com.google.android.gms.maps.SupportMapFragment"
  " />
     <RelativeLayout
       android:layout width="match parent"
       android:layout height="50dp"
       android:layout marginTop="10dp"
```

```
android:layout marginLeft="10dp"
  android:layout marginRight="10dp"
  android:elevation="10dp"
  android:background="@drawable/white border"
  android:id="@+id/relLayout1">
  ImageView
    android:layout width="15dp"
    android:layout height="15dp"
    android:id="@+id/ic magnify"
    android:layout centerVertical="true"
    android:layout marginLeft="10dp"
    android:src="@drawable/ic magnify"/>
  <EditText
    android:layout width="match parent"
    android:layout height="match parent"
    android:layout toRightOf="@+id/ic magnify"
    android:layout centerVertical="true"
    android:textSize="15sp"
    android:textColor="#000"
    android:id="@+id/input search"
    android:background="@null"
    android:hint="Enter the address here"
    android:imeOptions="actionSearch"/>
</RelativeLayout>
<lmageView</pre>
  android:layout width="40dp"
  android:layout height="40dp"
  android:layout_below="@id/relLayout1"
  android:layout alignParentRight="true"
```

```
android:layout_marginRight="10dp"
android:layout_marginTop="10dp"
android:scaleType="centerCrop"
android:id="@+id/ic_gps"
android:src="@drawable/ic_gps"/>
</RelativeLayout>
```

# activity\_rider.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   tools:context=".RiderActivity">
```

## <Button

```
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_marginTop="22dp"
android:layout_marginEnd="230dp"
android:background="@color/greenBg"
android:text="@string/maps_link" />
```

#### <Button

```
android:id="@+id/logoutRdrBtn"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
```

android:layout\_alignTop="@+id/button" android:layout\_alignParentStart="true" android:layout\_marginStart="221dp" android:layout\_marginTop="1dp" android:background="@color/greenBg" android:onClick="logout" android:text="@string/logout" />

#### <TextView

android:id="@+id/textView18"
android:layout\_width="match\_parent"
android:layout\_height="match\_parent"
android:layout\_alignParentTop="true"
android:layout\_centerHorizontal="true"
android:layout\_marginTop="87dp"
android:text="@string/add\_list"
android:textColor="@color/greenBg"
android:textSize="25sp"
android:textStyle="bold"
android:textAlignment="center"/>

### <ListView

android:id="@+id/listViewDrivers"
android:layout\_width="match\_parent"
android:layout\_height="match\_parent"
android:layout\_alignParentStart="true"
android:layout\_alignParentTop="true"
android:layout\_marginStart="0dp"
android:layout\_marginTop="120dp"
/>

```
</RelativeLayout>
```

# • activity\_rider\_sign\_up.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".RiderSignUpActivity"
    tools:layout_editor_absoluteY="25dp">
```

### <TextView

```
android:id="@+id/textView3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="30dp"
android:text="@string/rsignup"
android:textColor="@color/greenBg"
android:textSize="40sp"
android:textStyle="bold"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

#### <TextView

```
android:id="@+id/textView10"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="10dp"
android:layout_marginBottom="37dp"
android:text="@string/username_box"
```

```
android:textColor="@color/greenBg"
  android:textSize="25sp"
  android:textStyle="bold"
  app:layout constraintBottom toBottomOf="@+id/createUsernm"
  app:layout constraintStart toStartOf="@+id/createUsernm" />
<TextView
  android:id="@+id/textView11"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginStart="1dp"
  android:layout marginTop="11dp"
  android:text="@string/password box"
  android:textColor="@color/greenBg"
  android:textSize="25sp"
  android:textStyle="bold"
  app:layout constraintStart toStartOf="@+id/createPswd"
  app:layout constraintTop toBottomOf="@+id/textView14" />
<Button
  android:id="@+id/createBtn"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginStart="86dp"
  android:layout marginBottom="43dp"
  android:background="@color/greenBg"
  android:onClick="createBtn"
  android:text="@string/create"
  app:layout constraintBottom toBottomOf="parent"
  app:layout constraintStart toStartOf="parent" />
<Button
  android:id="@+id/cancelBtn"
```

```
android:layout_width="wrap content"
  android:layout height="wrap content"
  android:layout marginStart="79dp"
  android:layout marginEnd="79dp"
  android:layout marginBottom="43dp"
  android:background="@color/greenBg"
  android:onClick="cancelBtn"
  android:text="@string/cancel"
  app:layout constraintBottom toBottomOf="parent"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintStart toStartOf="@+id/phone no" />
<EditText
  android:id="@+id/createUsernm"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginStart="9dp"
  android:layout marginBottom="18dp"
  android:ems="10"
  android:hint="@string/username_hint"
  android:inputType="textPersonName"
  app:layout constraintBottom toBottomOf="@+id/textView14"
  app:layout_constraintStart_toStartOf="@+id/textView14" />
<EditText
  android:id="@+id/createPswd"
  android:layout_width="wrap content"
  android:layout height="wrap content"
  android:layout marginTop="24dp"
  android:layout marginEnd="8dp"
  android:ems="10"
  android:inputType="textPassword"
```

```
app:layout constraintEnd toEndOf="@+id/textView14"
  app:layout constraintTop toTopOf="@+id/textView11" />
<TextView
  android:id="@+id/textView14"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginTop="167dp"
  android:layout marginBottom="167dp"
  android:text="@string/username box hint"
  android:textColor="@color/greenBg"
  android:textStyle="bold"
  app:layout_constraintBottom_toBottomOf="@+id/name"
  app:layout constraintEnd toEndOf="parent"
  app:layout_constraintStart_toStartOf="parent"
  app:layout constraintTop toTopOf="@+id/textView3" />
<TextView
  android:id="@+id/textView15"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginTop="45dp"
  android:text="@string/password box hint"
  android:textColor="@color/greenBg"
  android:textStyle="bold"
  app:layout_constraintEnd_toEndOf="@+id/createPswd"
  app:layout constraintTop toTopOf="@+id/createPswd" />
<TextView
  android:id="@+id/textView5"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginBottom="151dp"
```

```
android:text="@string/phone"
  android:textColor="@color/greenBg"
  android:textSize="15sp"
  android:textStyle="bold"
  app:layout constraintBottom toBottomOf="parent"
  app:layout_constraintEnd_toStartOf="@+id/textView4"
  app:layout constraintStart toStartOf="@+id/textView4" />
<TextView
  android:id="@+id/textView4"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginEnd="2dp"
  android:layout marginBottom="11dp"
  android:text="@string/name"
  android:textColor="@color/greenBg"
  android:textSize="15sp"
  android:textStyle="bold"
  app:layout constraintBottom toTopOf="@+id/phone no"
  app:layout constraintEnd toStartOf="@+id/name" />
<EditText
  android:id="@+id/name"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginEnd="31dp"
  android:ems="10"
  android:hint="@string/name hint"
  android:inputType="textPersonName"
  app:layout constraintBaseline toBaselineOf="@+id/textView4"
  app:layout_constraintEnd_toEndOf="parent" />
```

<EditText

```
android:id="@+id/phone_no"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:ems="10"
android:hint="@string/phone_hint"
android:inputType="number|phone"
app:layout_constraintBaseline_toBaselineOf="@+id/textView5"
app:layout_constraintStart_toStartOf="@+id/name" />
```

</android.support.constraint.ConstraintLayout>

## activity\_test.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
  android:layout height="match parent"
  tools:context=".testActivity"
  tools:layout editor absoluteY="25dp">
  <Button
    android:id="@+id/button3"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginEnd="1dp"
    android:layout marginBottom="56dp"
    android:background="@color/greenBg"
    android:onClick="logout"
    android:text="Logout"
    app:layout constraintBottom toBottomOf="parent"
```

```
app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.5"
    app:layout constraintStart toEndOf="@+id/button2" />
  <TextView
    android:id="@+id/textView6"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginTop="98dp"
    android:layout marginBottom="109dp"
    android:text="@string/information"
    android:textAlignment="center"
    android:textColor="@color/greenBg"
    android:textSize="25sp"
    android:textStyle="italic"
    app:layout constraintBottom toBottomOf="@+id/button2"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toTopOf="parent" />
  <Button
    android:id="@+id/button2"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout_marginBottom="56dp"
    android:background="@color/greenBg"
    android:onClick="delete"
    android:text="Delete Account"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toStartOf="@+id/button3"
    app:layout constraintHorizontal bias="0.5"
    app:layout constraintStart toStartOf="parent" />
</android.support.constraint.ConstraintLayout>
```

```
list_layout.xml
```

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
  android:orientation="vertical" android:layout width="match parent"
  android:layout height="match parent">
  <TextView
    android:id="@+id/textViewDestination"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:text="TextView"
    android:textAlignment="center"
android:textAppearance="@style/Base.TextAppearance.AppCompat.
Large"/>
  <TextView
    android:id="@+id/textViewName"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:text="TextView"
    android:textAlignment="center"
    android:textSize="20sp"/>
  <TextView
    android:id="@+id/textViewContact"
    android:layout width="match parent"
    android:layout_height="wrap_content"
    android:text="TextView"
    android:textAlignment="center"
    android:textSize="20sp"/>
```

```
<TextView
       android:id="@+id/textViewTime"
       android:layout width="match parent"
       android:layout height="wrap content"
       android:text="TextView"
       android:textAlignment="center"
       android:textSize="20sp"/>
     <TextView
       android:id="@+id/textViewAddress"
       android:layout width="match parent"
       android:layout height="wrap content"
       android:text="TextView"
       android:textAlignment="center"
       android:textSize="20sp" />
  </LinearLayout>
splash_layout.xml
  <?xml version="1.0" encoding="utf-8"?>
  <LinearLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
     android:layout width="match parent"
     android:layout height="match parent"
     android:background="@drawable/splash">
  </LinearLayout>
color.xml
  <?xml version="1.0" encoding="utf-8"?>
  <resources>
     <color name="colorPrimary">#008577</color>
     <color name="colorPrimaryDark">#00574B</color>
     <color name="colorAccent">#D81B60</color>
     <color name="greenBg">#56b000</color>
```

```
<color name="black">#000000</color>
</resources>
```

### strings.xml

```
<resources>
  <string name="app name">CarPool</string>
  <!-- SignIn Screen-->
  <string name="username">Username</string>
  <string name="username hint">lpadhu@gmail.com</string>
  <string name="password">Password</string>
  <string name="password hint">itmd555</string>
  <string name="empty"> </string>
  <string name="signin">Sign-In</string>
  <string name="signup">Sign-Up</string>
  <string name="dsignup">Driver Sign-Up</string>
  <string name="rsignup">Rider Sign-Up</string>
  <string name="new_member">New user?</string>
  <string name="driver member">Driver</string>
  <string name="rider_member">Rider</string>
  <!-- SignUp Screen Common-->
  <string name="username box">Enter an email-id</string>
  <string name="username box hint">Should contain "'@' followed
by '.com'"</string>
  <string name="password box">Create a password</string>
  <string name="password box hint">Must be atleast 6 characters
long</string>
  <string name="name">Name</string>
  <string name="name hint">John Doe</string>
  <string name="phone">Phone.No</string>
  <string name="phone hint">Enter 10 digits</string>
  <string name="create">Create</string>
```

```
<string name="cancel">Cancel</string>
  <!-- Driver Sign-up-->
  <string name="role">Role</string>
  <string name="ownCar">I have a car to give rides</string>
  <string name="needCar">I need a car to take rides</string>
  <string name="destination">Destination</string>
  <string name="destination hint">Enter a landmark</string>
  <string name="time">Time</string>
  <string name="time hint">8:00am</string>
  <string name="example">E.g Union Station</string>
  <string name="save">Save and Continue </string>
  <string name="setup">Profile Set-Up</string>
  <string name="address">Address</string>
  <!-- Test Activity-->
  <string name="information">
    Thank you for signing up with us and promising to help the
community."\n"
    Your information has been recorded."\n"Riders will contact you if
they are close-by "\n\n\n"
    Happy Driving !!!
 </string>
  <!-- Maps -->
  <string
name="api key">AlzaSyCmniVYVmg3fux0bA-3Qi5xTdpc5tAZaGg</
string>
  <!--Rider Activity-->
  <string name="maps link">Maps</string>
  <string name="logout">Logout</string>
  <string name="add_list">List of Addresses</string>
```

```
</resources>
• styles.xml
  <resources>
     <!-- Base application theme. -->
     <style name="AppTheme"
  parent="Theme.AppCompat.Light.NoActionBar">
       <!-- Customize your theme here. -->
       <item name="colorPrimary">@color/colorPrimary</item>
       <item
  name="colorPrimaryDark">@color/colorPrimaryDark</item>
       <item name="colorAccent">@color/colorAccent</item>
     </style>
  </resources>
• Build.gradle - Project
  <resources>
     <!-- Base application theme. -->
     <style name="AppTheme"
```

```
parent="Theme.AppCompat.Light.NoActionBar">
    <!-- Customize your theme here. -->
    <item name="colorPrimary">@color/colorPrimary</item>
    <item
    name="colorPrimaryDark">@color/colorPrimaryDark</item>
    <item name="colorAccent">@color/colorAccent</item>
    </style>
</resources>
```

## • Build.gradle - app

```
apply plugin: 'com.android.application'
android {
  compileSdkVersion 28
  defaultConfig {
    applicationId "com.example.mypackage.carpool"
    minSdkVersion 24
    targetSdkVersion 28
    versionCode 1
    versionName "1.0"
    testInstrumentationRunner
"android.support.test.runner.AndroidJUnitRunner"
  buildTypes {
    release {
       minifyEnabled false
       proguardFiles getDefaultProguardFile('proguard-android.txt'),
'proguard-rules.pro'
    }
  }
}
dependencies {
  implementation fileTree(dir: 'libs', include: ['*.jar'])
  implementation 'com.android.support:appcompat-v7:28.0.0'
  implementation
'com.android.support.constraint:constraint-layout:1.1.3'
  implementation 'com.google.firebase:firebase-core:16.0.5'
  testImplementation 'junit:junit:4.12'
  androidTestImplementation 'com.android.support.test:runner:1.0.2'
  androidTestImplementation
'com.android.support.test.espresso:espresso-core:3.0.2'
```

```
implementation 'com.google.firebase:firebase-auth:16.0.5'
implementation 'com.google.firebase:firebase-core:16.0.5'
implementation 'com.google.firebase:firebase-database:16.0.5'
implementation
'com.google.android.gms:play-services-maps:16.0.0'
implementation
'com.google.android.gms:play-services-location:16.0.0'
implementation
'com.google.android.gms:play-services-places:16.0.0'
}
apply plugin: 'com.google.gms.google-services'
apply plugin: 'com.google.gms.google-services'
```