**Rent Car Application**

**Solution**

**HomePage.java**

package com.example.carsharingapplication;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.ArrayAdapter;  
import android.widget.Spinner;  
import android.widget.\*;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class HomePage extends AppCompatActivity {  
 EditText editDay;  
 Button btnRent;  
 String carName;  
 int day,totalPrice;  
 Car car;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_home\_page*);  
  
 Spinner nameSpinner = findViewById(R.id.*nameSpinner*);  
 ArrayAdapter<CharSequence> adapter = ArrayAdapter.*createFromResource*(this,R.array.*car\_name*,android.R.layout.*simple\_spinner\_item*);  
 adapter.setDropDownViewResource(android.R.layout.*simple\_spinner\_item*);  
 nameSpinner.setAdapter(adapter);  
 nameSpinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {  
 @Override  
 public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {  
 carName = parent.getItemAtPosition(position).toString();  
 }  
 @Override  
 public void onNothingSelected(AdapterView<?> parent) {  
  
 }  
 });  
  
 editDay = findViewById(R.id.*editDay*);  
 btnRent = findViewById(R.id.*btnRent*);  
  
 btnRent.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 day = Integer.*parseInt*(editDay.getText().toString());  
 if(carName.equals("Volkswagen Polo(19950 MMK/day)"))  
 {  
 totalPrice = day \* 19950;  
 //Toast.makeText(HomePage.this,"total "+totalPrice,Toast.LENGTH\_LONG).show();  
  
 }  
 else if(carName.equals("Hyundai Tucson or similar(46200 MMK/day)"))  
 {  
 totalPrice = day \* 46200;  
 }  
 else if(carName.equals("Toyota Majesty (66150 MMK/day)"))  
 {  
 totalPrice = day \* 66150;  
 }  
 car = new Car(carName,day,totalPrice);  
 Intent intent = new Intent(HomePage.this,ResultActivity.class);  
 intent.putExtra("Car\_Info",car);  
 startActivity(intent);  
 }  
 });  
  
 }  
}

**activity\_home\_page.xml**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.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:id="@+id/main"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".HomePage">  
  
 <TextView  
 android:id="@+id/textView5"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="128dp"  
 android:text="Find A Car"  
 android:textAlignment="center"  
 android:textSize="34sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/textView8"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="69dp"  
 android:text="Choose car"  
 android:textColor="#2196F3"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView5" />  
  
 <Spinner  
 android:id="@+id/nameSpinner"  
 android:layout\_width="415dp"  
 android:layout\_height="52dp"  
 android:layout\_marginTop="39dp"  
 android:spinnerMode="dialog"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView8" />  
  
 <EditText  
 android:id="@+id/editDay"  
 android:layout\_width="410dp"  
 android:layout\_height="59dp"  
 android:layout\_marginTop="36dp"  
 android:hint="Enter day you want to rend"  
 android:textColorHint="#2196F3"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/nameSpinner" />  
  
 <Button  
 android:id="@+id/btnRent"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="56dp"  
 android:text="Rent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/editDay" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**Car.java**

package com.example.carsharingapplication;  
  
import android.os.Parcel;  
import android.os.Parcelable;  
  
import androidx.annotation.NonNull;  
  
public class Car implements Parcelable {  
 String carInfo;  
 int day, totalPrice;  
  
 public Car(String carInfo, int day, int totalPrice) {  
 this.carInfo = carInfo;  
 this.day = day;  
 this.totalPrice = totalPrice;  
 }  
  
 protected Car(Parcel in) {  
 carInfo = in.readString();  
 day = in.readInt();  
 totalPrice = in.readInt();  
 }  
  
 public static final Creator<Car> *CREATOR* = new Creator<Car>() {  
 @Override  
 public Car createFromParcel(Parcel in) {  
 return new Car(in);  
 }  
  
 @Override  
 public Car[] newArray(int size) {  
 return new Car[size];  
 }  
 };  
  
 public String getCarInfo() {  
 return carInfo;  
 }  
  
 public int getDay() {  
 return day;  
 }  
  
 public int getTotalPrice() {  
 return totalPrice;  
 }  
  
 public void setCarInfo(String carInfo) {  
 this.carInfo = carInfo;  
 }  
  
 public void setDay(int day) {  
 this.day = day;  
 }  
  
 public void setTotalPrice(int totalPrice) {  
 this.totalPrice = totalPrice;  
 }  
  
 @Override  
 public int describeContents() {  
 return 0;  
 }  
  
 @Override  
 public void writeToParcel(@NonNull Parcel parcel, int i) {  
 parcel.writeString(carInfo);  
 parcel.writeInt(day);  
 parcel.writeInt(totalPrice);  
 }  
}

**ResultActivity.java**

package com.example.carsharingapplication;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.widget.\*;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class ResultActivity extends AppCompatActivity {  
 TextView txtInfo,txtDay,txtTotal;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_result*);  
  
 txtInfo = findViewById(R.id.*txtInfo*);  
 txtDay = findViewById(R.id.*txtDay*);  
 txtTotal = findViewById(R.id.*txtTotal*);  
  
 Car car= getIntent().getParcelableExtra("Car\_Info");  
 txtInfo.setText("Car-Info: "+car.getCarInfo());  
 txtDay.setText("Day: "+Integer.*toString*(car.getDay()));  
 txtTotal.setText("Total-Cost: "+Integer.*toString*(car.getTotalPrice()));  
 }  
}

**activity\_result\_.xml**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.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:id="@+id/main"  
 android:background="@color/white"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".ResultActivity">  
  
 <TextView  
 android:id="@+id/textView6"  
 android:layout\_width="0dp"  
 android:layout\_height="0dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginTop="139dp"  
 android:layout\_marginEnd="6dp"  
 android:layout\_marginBottom="36dp"  
 android:text="Car Information and Price"  
 android:textAlignment="center"  
 android:textColor="#9C27B0"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toTopOf="@+id/txtInfo"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="@+id/txtInfo"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/txtInfo"  
 android:layout\_width="329dp"  
 android:layout\_height="0dp"  
 android:layout\_marginEnd="29dp"  
 android:layout\_marginBottom="30dp"  
 android:text="Car-Info:"  
 android:textColor="#9C27B0"  
 android:textSize="16sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toTopOf="@+id/txtDay"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView6" />  
  
 <TextView  
 android:id="@+id/txtDay"  
 android:layout\_width="0dp"  
 android:layout\_height="0dp"  
 android:layout\_marginBottom="42dp"  
 android:text="Day:"  
 android:textColor="#9C27B0"  
 android:textSize="16sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toTopOf="@+id/txtTotal"  
 app:layout\_constraintEnd\_toEndOf="@+id/txtInfo"  
 app:layout\_constraintStart\_toStartOf="@+id/txtInfo"  
 app:layout\_constraintTop\_toBottomOf="@+id/txtInfo" />  
  
 <TextView  
 android:id="@+id/txtTotal"  
 android:layout\_width="0dp"  
 android:layout\_height="0dp"  
 android:layout\_marginStart="44dp"  
 android:layout\_marginEnd="44dp"  
 android:layout\_marginBottom="268dp"  
 android:text="Total-Cost:"  
 android:textColor="#9C27B0"  
 android:textSize="16sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/txtDay" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**Strings.xml**

<resources>  
 <string name="app\_name">CarSharingApplication</string>  
 <string-array name="car\_name">  
 <item>Volkswagen Polo(19950 MMK/day)</item>  
 <item>Hyundai Tucson or similar(46200 MMK/day)</item>  
 <item>Toyota Majesty (66150 MMK/day)</item>  
 </string-array>  
  
</resources>