**Cosmetic Shop**

**Activity\_main.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"  
 android:orientation="vertical"  
 android:padding="30dp"  
 tools:context=".firstActivity">  
  
 <LinearLayout  
 android:id="@+id/linearLayout"  
 android:layout\_width="0dp"  
 android:layout\_height="120dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.076">  
  
 <ImageView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 app:srcCompat="@drawable/cosmeticshop" />  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_weight="1"  
 android:background="@color/red"  
 android:paddingTop="20dp"  
 android:textAlignment="center"  
 android:text="Cosmetic Shop"  
 android:textStyle="bold"  
 android:textColor="@color/white"  
 android:textSize="20sp" />  
 </LinearLayout>  
  
 <EditText  
 android:id="@+id/username"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="200dp"  
 android:background="@color/yellow"  
 android:paddingTop="20dp"  
 android:paddingBottom="20dp"  
 android:textSize="20sp"  
 android:text="User Name"  
 android:textColor="@color/red"  
 android:textStyle="bold"  
 android:paddingStart="10dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
  
 <EditText  
 android:id="@+id/price"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="300dp"  
 android:background="@color/yellow"  
 android:paddingTop="20dp"  
 android:paddingBottom="20dp"  
 android:textSize="20sp"  
 android:text="Price"  
 android:textColor="@color/red"  
 android:textStyle="bold"  
 android:paddingStart="10dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
  
 <Spinner  
 android:id="@+id/spinner"  
 android:layout\_width="match\_parent"  
 android:layout\_height="120dp"  
 android:background="@color/red"  
 android:textColor="@color/white"  
 android:spinnerMode="dropdown"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.7" />  
  
 <Button  
 android:id="@+id/order"  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:text="ORDER"  
 android:textColor="@color/white"  
 android:background="@color/red"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.95" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**firstActivity.java**

package com.example.cosmeticshop;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.AdapterView;  
import android.widget.ArrayAdapter;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Spinner;  
  
import androidx.activity.EdgeToEdge;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class firstActivity extends AppCompatActivity {  
 String[] product = {"Skin care products","Hair and scalp","Nail and cuticle products","Oral hygiene products"};  
  
 EditText username,price;  
 String selecteditem;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 EdgeToEdge.*enable*(this);  
 setContentView(R.layout.*activity\_main*);  
  
 Spinner spinner = (Spinner) findViewById(R.id.*spinner*);  
 ArrayAdapter<String> adapter= new ArrayAdapter<>(this, android.R.layout.*simple\_spinner\_item*,product);  
 adapter.setDropDownViewResource(android.R.layout.*simple\_spinner\_dropdown\_item*);  
 spinner.setAdapter(adapter);  
  
 spinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {  
 @Override  
 public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {  
 selecteditem = parent.getItemAtPosition(position).toString();  
 }  
 @Override  
 public void onNothingSelected(AdapterView<?> parent) {  
  
 }  
 });  
 username = findViewById(R.id.*username*);  
 price = findViewById(R.id.*price*);  
 Button order = findViewById(R.id.*order*);  
 order.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent(firstActivity.this,SecondActivity.class);  
 intent.putExtra("username",(CharSequence) username.getText().toString());  
 intent.putExtra("price",(CharSequence) price.getText().toString());  
 intent.putExtra("selected\_item",selecteditem);  
 startActivity(intent);  
 }  
 });  
 }  
}

**Activity\_Second.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"  
 android:padding="20dp"  
 tools:context=".SecondActivity">  
  
 <TextView  
 android:id="@+id/username"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginEnd="20dp"  
 android:background="@color/red"  
 android:paddingTop="20dp"  
 android:paddingBottom="20dp"  
 android:textColor="@color/txtcolor"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.2" />  
  
 <TextView  
 android:id="@+id/price"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginEnd="20dp"  
 android:background="@color/red"  
 android:paddingTop="20dp"  
 android:paddingBottom="20dp"  
 android:textColor="@color/txtcolor"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.4" />  
  
 <TextView  
 android:id="@+id/product"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginEnd="20dp"  
 android:background="@color/red"  
 android:paddingTop="20dp"  
 android:paddingBottom="20dp"  
 android:textColor="@color/txtcolor"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.6" />  
  
 <Button  
 android:id="@+id/orderbtn"  
 android:text="MAKE ORDER"  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:background="@color/red"  
 android:textColor="@color/txtcolor"  
 android:textStyle="bold"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.8" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**SecondActivity.java**

package com.example.cosmeticshop;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
public class SecondActivity extends AppCompatActivity {  
 TextView username, price, item;  
 Button makeorderbtn;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_second*);  
  
 username = findViewById(R.id.*username*);  
 price = findViewById(R.id.*price*);  
 item = findViewById(R.id.*product*);  
  
 String user = getIntent().getStringExtra("username");  
 String itemprice = getIntent().getStringExtra("price");  
 String selecteditem = getIntent().getStringExtra("selected\_item");  
  
 username.setText(user);  
 price.setText(itemprice);  
 item.setText(selecteditem);  
  
 makeorderbtn = findViewById(R.id.*orderbtn*);  
 makeorderbtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Toast.*makeText*(SecondActivity.this,"Order Complete",Toast.*LENGTH\_SHORT*).show();  
 }  
 });  
 }  
}

**color.xml**

<?xml version="1.0" encoding="utf-8"?>  
<resources>  
 <color name="black">#FF000000</color>  
 <color name="white">#FFFFFFFF</color>  
 <color name="red">#E91E63</color>  
 <color name="yellow">#3C8BC34A</color>  
 <color name="txtcolor">#FFEB3B</color>  
</resources>

**StudentRegistrationForm**

**Solution**

**FirstActivity.java**

package com.example.labexam;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class LabExam1Q1 extends AppCompatActivity {  
  
 EditText txtName,txtMkpt,txtPhNo,txtAddress;  
 Button btnRegister;  
 Person person;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_lab\_exam1\_q1*);  
 txtName = findViewById(R.id.*Name*);  
 txtMkpt = findViewById(R.id.*mkpt*);  
 txtPhNo = findViewById(R.id.*PhNo*);  
 txtAddress = findViewById(R.id.*Address*);  
 btnRegister = findViewById(R.id.*btnRegister*);  
  
 btnRegister.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 person = new Person(txtName.getText().toString(),txtMkpt.getText().toString(),txtPhNo.getText().toString(),txtAddress.getText().toString());  
 Intent intent = new Intent(LabExam1Q1.this,SecondActivity.class);  
 intent.putExtra("Person\_Data",person);  
 startActivity(intent);  
 }  
 });  
 }  
}

**FirstActivity.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=".LabExam1Q1">  
  
 <EditText  
 android:id="@+id/PhNo"  
 android:layout\_width="242dp"  
 android:layout\_height="62dp"  
 android:layout\_marginEnd="88dp"  
 android:background="#00BCD4"  
 android:text="Ph-no"  
 android:textAlignment="viewStart"  
 android:textColor="#E91E63"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.514" />  
  
 <EditText  
 android:id="@+id/Name"  
 android:layout\_width="242dp"  
 android:layout\_height="62dp"  
 android:layout\_marginTop="28dp"  
 android:background="#00BCD4"  
 android:text="Name"  
 android:textAlignment="viewStart"  
 android:textColor="#E91E63"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.473"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/editTextText" />  
  
 <EditText  
 android:id="@+id/Address"  
 android:layout\_width="242dp"  
 android:layout\_height="62dp"  
 android:background="#00BCD4"  
 android:text="Address"  
 android:textAlignment="viewStart"  
 android:textColor="#E91E63"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.692" />  
  
 <EditText  
 android:id="@+id/mkpt"  
 android:layout\_width="242dp"  
 android:layout\_height="62dp"  
 android:background="#00BCD4"  
 android:text="MKPT"  
 android:textAlignment="viewStart"  
 android:textColor="#E91E63"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.473"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.375" />  
  
 <TextView  
 android:id="@+id/editTextText"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:background="#03A9F4"  
 android:ems="10"  
 android:inputType="text"  
 android:text="Student Registration Form"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.601"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.104" />  
  
 <Button  
 android:id="@+id/btnRegister"  
 android:layout\_width="169dp"  
 android:layout\_height="45dp"  
 android:background="#2196F3"  
 android:text="Register"  
 android:textAlignment="center"  
 android:textColor="#F44336"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.814" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**SecondActivity.java**

package com.example.labexam;  
  
import android.os.Bundle;  
import androidx.appcompat.app.AppCompatActivity;  
import android.widget.\*;  
public class SecondActivity extends AppCompatActivity {  
TextView txtName,txtMkpt,txtPhNo,txtAddress;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_second*);  
  
 Person person = getIntent().getParcelableExtra("Person\_Data");  
 txtName = findViewById(R.id.*txtName*);  
 txtMkpt = findViewById(R.id.*txtMkpt*);  
 txtPhNo = findViewById(R.id.*txtPhNo*);  
 txtAddress = findViewById(R.id.*txtAddress*);  
  
 txtName.setText(person.getName());  
 txtMkpt.setText(person.getMkpt());  
 txtPhNo.setText(person.getPhNo());  
 txtAddress.setText(person.getAddress());  
 }  
}

**SecondActivity.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=".SecondActivity">  
  
 <TextView  
 android:id="@+id/txtName"  
 android:layout\_width="200dp"  
 android:layout\_height="44dp"  
 android:textColor="#2196F3"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.592"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.307" />  
  
 <TextView  
 android:id="@+id/txtMkpt"  
 android:layout\_width="200dp"  
 android:layout\_height="44dp"  
 android:textColor="#2196F3"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.592"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.465" />  
  
 <TextView  
 android:id="@+id/txtPhNo"  
 android:layout\_width="200dp"  
 android:layout\_height="44dp"  
 android:textColor="#2196F3"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.592"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.604" />  
  
 <TextView  
 android:id="@+id/txtAddress"  
 android:layout\_width="200dp"  
 android:layout\_height="44dp"  
 android:textColor="#2196F3"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.592"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.72" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**Person.java**

package com.example.labexam;  
  
import android.os.Parcel;  
import android.os.Parcelable;  
  
import androidx.annotation.NonNull;  
  
public class Person implements Parcelable {  
 String name,mkpt,phNo,address;  
  
 public Person(String name, String mkpt, String phNo, String address) {  
  
 this.name = name;  
 this.mkpt = mkpt;  
 this.phNo = phNo;  
 this.address = address;  
 }  
  
 protected Person(Parcel in) {  
 name = in.readString();  
 mkpt = in.readString();  
 phNo = in.readString();  
 address = in.readString();  
 }  
  
 public static final Creator<Person> *CREATOR* = new Creator<Person>() {  
 @Override  
 public Person createFromParcel(Parcel in) {  
 return new Person(in);  
 }  
  
 @Override  
 public Person[] newArray(int size) {  
 return new Person[size];  
 }  
 };  
  
 public String getAddress() {  
 return address;  
 }  
  
 public void setAddress(String address) {  
 this.address = address;  
 }  
  
 public String getMkpt() {  
 return mkpt;  
 }  
  
 public void setMkpt(String mkpt) {  
 this.mkpt = mkpt;  
 }  
  
 public String getName() {  
 return name;  
 }  
  
 public void setName(String name) {  
 this.name = name;  
 }  
  
 public String getPhNo() {  
 return phNo;  
 }  
  
 public void setPhNo(String phNo) {  
 this.phNo = phNo;  
 }  
  
 @Override  
 public int describeContents() {  
 return 0;  
 }  
  
 @Override  
 public void writeToParcel(@NonNull Parcel parcel, int i) {  
 parcel.writeString(name);  
 parcel.writeString(mkpt);  
 parcel.writeString(phNo);  
 parcel.writeString(address);  
 }  
}

**Rent Car Application**

**Solution**

**HomePage.java**

package com.example.labexam;  
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);  
  
 editDay = findViewById(R.id.*editDay*);  
 btnRent = findViewById(R.id.*btnRent*);  
 carName = nameSpinner.getSelectedItem().toString();  
  
 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,ResultPage.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.labexam;  
  
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);  
 }  
}

**ResultPage.java**

package com.example.labexam;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.widget.\*;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class ResultPage extends AppCompatActivity {  
 TextView txtInfo,txtDay,txtTotal;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_result\_page*);  
  
 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\_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:background="@color/white"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".ResultPage">  
  
 <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**

<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>

**HealthCare System**

**Activity\_main.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"  
 android:padding="10dp"  
 tools:context=".LoginActivity">  
  
 <LinearLayout  
 android:id="@+id/linearLayout"  
 android:layout\_width="0dp"  
 android:layout\_height="100dp"  
 android:layout\_marginStart="50dp"  
 android:layout\_marginEnd="50dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.154">  
  
 <ImageView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 app:srcCompat="@drawable/ree"  
 android:layout\_weight="1"/>  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:text="HealthCare System"  
 android:textStyle="bold"  
 android:textSize="24sp"  
 android:paddingTop="10dp"  
 android:textAlignment="center"  
 android:textColor="@color/txtblue"  
 android:background="@color/yellow"  
 android:layout\_weight="1"/>  
  
 </LinearLayout>  
  
 <EditText  
 android:id="@+id/name"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textColor="@color/txtred"  
 android:hint="Name"  
 android:textColorHint="@color/txtred"  
 android:inputType="text"  
 android:textSize="20sp"  
 android:paddingStart="10dp"  
 android:paddingTop="20dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.4" />  
  
 <EditText  
 android:id="@+id/password"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textColor="@color/txtred"  
 android:hint="Password"  
 android:textColorHint="@color/txtred"  
 android:inputType="textPassword"  
 android:textSize="20sp"  
 android:paddingStart="10dp"  
 android:paddingTop="20dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.55" />  
  
 <Button  
 android:id="@+id/loginbtn"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="LOGIN"  
 android:textSize="24sp"  
 android:textColor="@color/txtblue"  
 android:background="@color/yellow"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.7" />

</androidx.constraintlayout.widget.ConstraintLayout>

**LoginActivity.java**

package com.example.healthcaresystem;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
import androidx.activity.EdgeToEdge;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.core.graphics.Insets;  
import androidx.core.view.ViewCompat;  
import androidx.core.view.WindowInsetsCompat;  
  
public class LoginActivity extends AppCompatActivity {  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 EdgeToEdge.*enable*(this);  
 setContentView(R.layout.*activity\_main*);  
 ViewCompat.*setOnApplyWindowInsetsListener*(findViewById(R.id.*main*), (v, insets) -> {  
 Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.*systemBars*());  
 v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);  
 return insets;  
 });  
 EditText name = findViewById(R.id.*name*);  
 EditText password = findViewById(R.id.*password*);  
 Button loginbtn = findViewById(R.id.*loginbtn*);  
  
 loginbtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent;  
 if (name.getText().toString().equals("admin") & password.getText().toString().equals("admin@123.mdy")){  
 intent = new Intent(LoginActivity.this, loginSuccessfulActivity.class);  
 intent.putExtra("login", (CharSequence) name.getText().toString());  
 startActivity(intent);  
  
 }  
 else {  
 intent = new Intent(LoginActivity.this,loginFailedActivity.class);  
 startActivity(intent);  
 }  
 }  
 });  
 }  
}

**activity\_login\_successful.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"  
 android:padding="10dp"  
 tools:context=".loginSuccessfulActivity">  
  
 <ImageView  
 android:layout\_width="match\_parent"  
 android:layout\_height="120dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.2"  
 app:srcCompat="@drawable/cong" />  
  
 <TextView  
 android:id="@+id/cong"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginEnd="10dp"  
 android:text="Congratulation!! Login Successful"  
 android:textAlignment="center"  
 android:textColor="@color/yellow"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.4" />  
  
 <TextView  
 android:id="@+id/welcome"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginEnd="10dp"  
 android:text=""  
 android:textAlignment="center"  
 android:textColor="@color/yellow"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.5" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**LoginSuccessfulActivity.java**

package com.example.healthcaresystem;  
  
import android.os.Bundle;  
import android.widget.TextView;  
  
import androidx.activity.EdgeToEdge;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.core.graphics.Insets;  
import androidx.core.view.ViewCompat;  
import androidx.core.view.WindowInsetsCompat;  
  
public class loginSuccessfulActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 EdgeToEdge.*enable*(this);  
 setContentView(R.layout.*activity\_login\_successful*);  
 ViewCompat.*setOnApplyWindowInsetsListener*(findViewById(R.id.*main*), (v, insets) -> {  
 Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.*systemBars*());  
 v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);  
 return insets;  
 });  
 TextView admin = findViewById(R.id.*welcome*);  
 String user = getIntent().getStringExtra("login");  
 admin.setText("Dear "+user+" welcome:):)");  
 }  
}

**activity\_login\_failed.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=".loginFailedActivity">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="Sorry!! Login Failed"  
 android:textAlignment="center"  
 android:textColor="@color/failtxt"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.5" />  
  
 <Button  
 android:id="@+id/tryagain"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="TRY AGAIN"  
 android:background="@color/white"  
 android:textColor="@color/txtred"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.7" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**loginFailedActivity.java**

package com.example.healthcaresystem;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
  
import androidx.activity.EdgeToEdge;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.core.graphics.Insets;  
import androidx.core.view.ViewCompat;  
import androidx.core.view.WindowInsetsCompat;  
  
public class loginFailedActivity extends AppCompatActivity {  
 Button trybtn;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 EdgeToEdge.*enable*(this);  
 setContentView(R.layout.*activity\_login\_failed*);  
 ViewCompat.*setOnApplyWindowInsetsListener*(findViewById(R.id.*main*), (v, insets) -> {  
 Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.*systemBars*());  
 v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);  
 return insets;  
 });  
 trybtn = findViewById(R.id.*tryagain*);  
 trybtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent(loginFailedActivity.this,LoginActivity.class);  
 startActivity(intent);  
 }  
 });  
  
 }  
}

**color.xml**

<?xml version="1.0" encoding="utf-8"?>  
<resources>  
 <color name="black">#FF000000</color>  
 <color name="white">#FFFFFFFF</color>  
 <color name="yellow">#FFEB3B</color>  
 <color name="txtblue">#3F51B5</color>  
 <color name="txtred">#FF2222</color>  
 <color name="failtxt">#F44336</color>  
</resources>