

Project Report

Pervasive Computing

Course Code: CSE-335

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Title: A user interactive shopping application.

Introduction:

hopping apps are designed to make it easy for customers to find and buy the products they need. They also allow you to purchase items faster by allowing customers to save payment info and make in-app payments by logging into an account. The recent pandemic has resulted in a massive surge in mobile shoppers worldwide; consumers find it more convenient to shop online on mobile apps, from groceries to medicines to clothes and electronic accessories. We will be available 24/7 for your customers and can be in touch with your global audience with the mobile application enabling them to be in direct contact with your brand. According to a report by Merchant Savvy, 58% of all multi-channel purchases are now completed via mobile. The convenience of shopping on your mobile app can enable customers to turn into repeat buyers, and you can also add loyalty programs to retain the existing customers.

Objective:

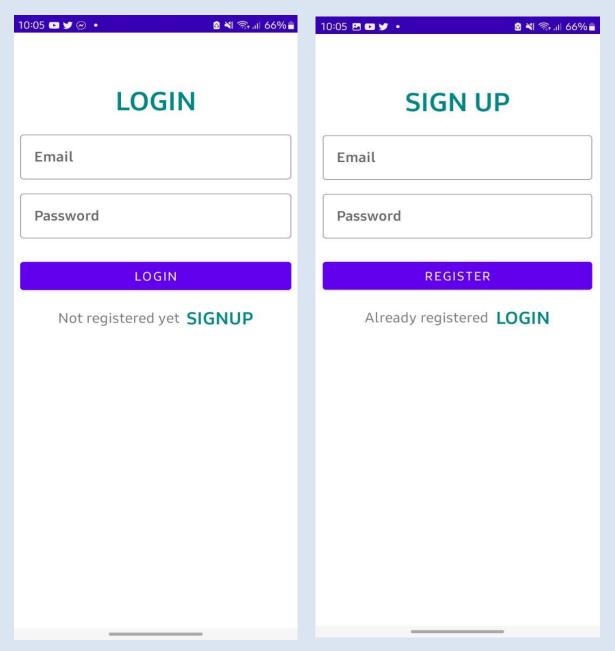
The objectives for a mobile app:

- User Growth,
- Engagement, and
- Brand Awareness.

The main objective of the Online Shopping System is to manage the details of Shopping, Internet, Payment, Bills, Customer. It manages all the information about Shopping, Products, Customer, Shopping.

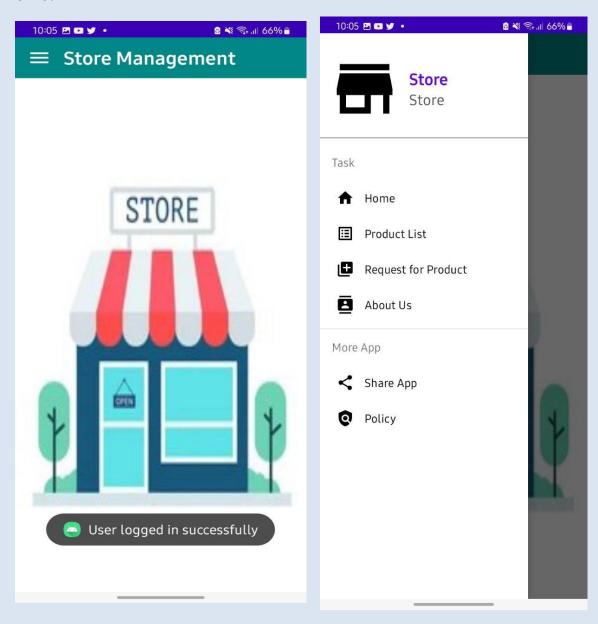
Description:

Login/Signup



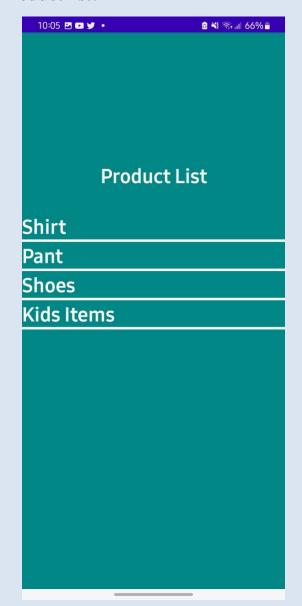
Here I have used **firebase authentication** for login and signup. If a customer has already an account, then he or she can directly log in to the app. Unless they have to sign up with their email and proper password.

Home:



After login it will show a toast for login success and come to the login page. Here I have used navigation bar and fragment. In the navigation bar I have several segments.

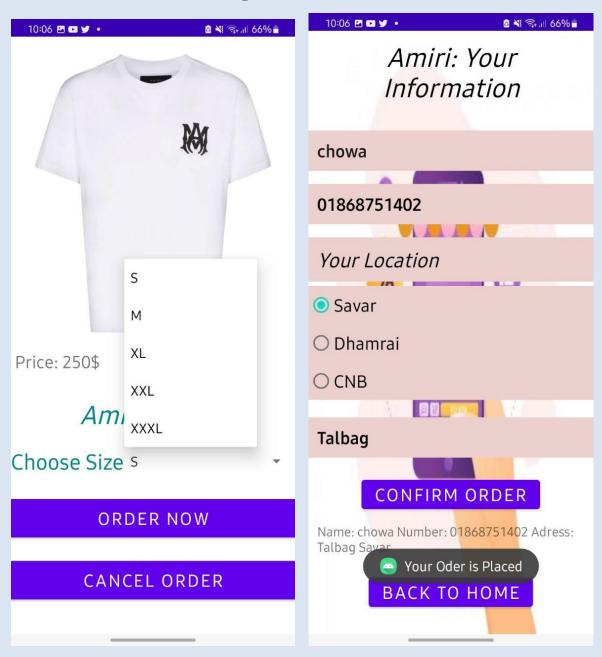
Product list:



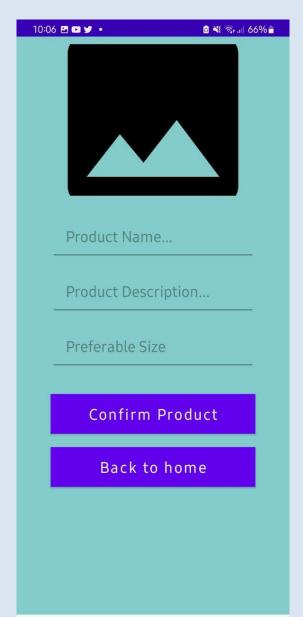


Here, the product list has been displayed using **list view**. If we click to any segment, it will take us to the product display page with price.

Then if we select any product, it will ask the products size and then if we place the order. The system will take our address and information to confirm the order. Thus, we can order a product. Here I have used **fragment** for the shirt display section. And also I have used **spinner** and **radiobutton**.



Request for product:

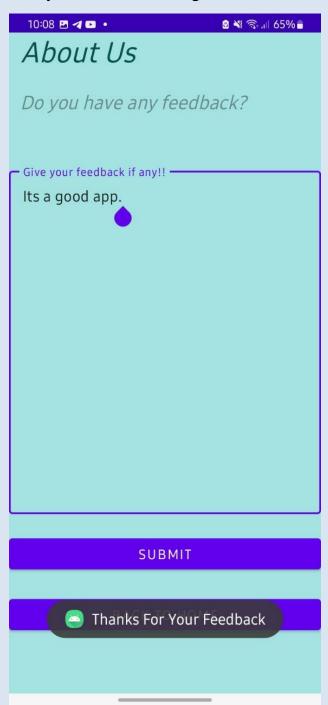




Here we can request to the server for any product that is not available. We can add picture from out gallery and with the proper information we can request for a product.

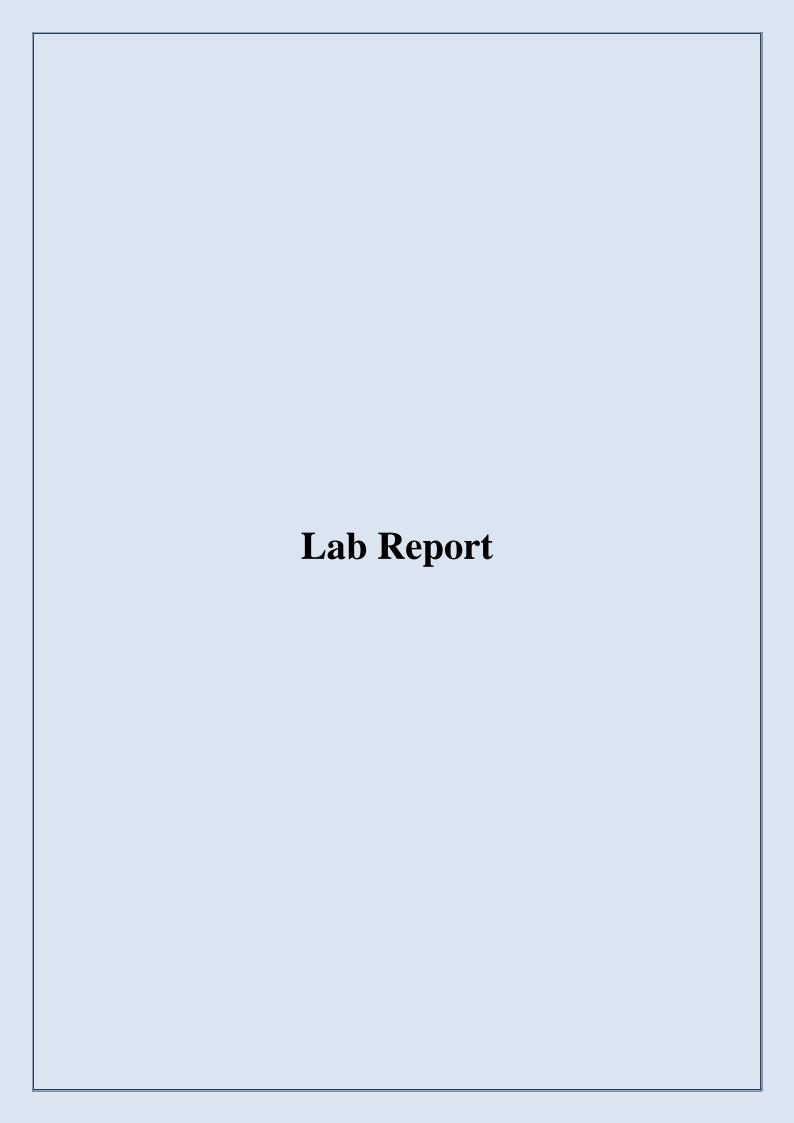
Feedback:

Lastly the customer can give feedback for the system.



Source code:

Source code link



Fragment

Main xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
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"
android:orientation="vertical"
android:paddingTop="20sp"
tools:context=".MainActivity">
<Button
android:layout_width="match_parent"
android:layout_gravity="center_horizontal"
android:layout_height="wrap_content"
android:text="1st fragment"
android:background="@color/teal_200"
android:id="@+id/fragmentbtn1"
android:textSize="25dp"
android:textStyle="bold"
android:onClick="gofragone"/>
<Button
android:layout_width="match_parent"
android:layout_gravity="center_horizontal"
```

```
android:layout_height="wrap_content"
android:text="2nd fragment"
android:id="@+id/fragmentbtn2"
android:textSize="25dp"
android:textStyle="bold"
android:background="#61A6DD"
android:onClick="gofragrwo"/>
<LinearLayout
android:layout_width="match_parent"
android:layout_height="400sp"
android:id="@+id/fragmentcontainer"
android:background="@color/purple_200"
android:orientation="horizontal"
>
</LinearLayout>
</LinearLayout>
Fragment xml1:
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
xmlns:tools="http://schemas.android.com/tools"
and roid: layout\_width = "match\_parent"
android:layout_height="400dp"
tools:context=".BlankFragment">
```

```
<!-- TODO: Update blank fragment layout -->
<TextView
android:layout_width="match_parent"
android:layout_height="match_parent"
android:text="I am first fragment"
android:textSize="25dp"
android:textStyle="bold"
android:gravity="center"
android:background="@color/teal_200"/>
</FrameLayout>
Fragment xml 2:
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="400dp"
tools:context=".BlankFragment2">
<!-- TODO: Update blank fragment layout -->
<TextView
android:layout_width="match_parent"
android:layout_height="match_parent"
android:text="I am second fragment"
android:textSize="25dp"
```

```
android:textStyle="bold"
android:gravity="center"
android:background="#61A6DD" />
</FrameLayout>
                                     Java:
package com.example.practice;
import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.FragmentManager;
import androidx.fragment.app.FragmentTransaction;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class MainActivity extends AppCompatActivity {
public Button btn1, btn2;
FragmentManager myfragmng;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
btn1=findViewById(R.id.fragmentbtn1);
btn2=findViewById(R.id.fragmentbtn2);
public void gofragone(View view) {
```

```
myfragmng=getSupportFragmentManager();
FragmentTransaction myfragmenttransection=myfragmng.beginTransaction();
myfragmenttransection.add(R.id.fragmentcontainer, new
BlankFragment()).commit();
}
public void gofragrwo(View view) {
myfragmng=getSupportFragmentManager();
FragmentTransaction myfragmenttransection=myfragmng.beginTransaction();
myfragmenttransection.add(R.id.fragmentcontainer, new
BlankFragment2()).commit();
}
                                  ListView:
Xml1:
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
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=".MainActivity">
<ListView
android:id="@+id/ListViewId"
android:listSelector="#A217BA"
```

```
android:layout_width="match_parent"
android:layout_height="match_parent"
android:divider="#A217BA"
android:dividerHeight="3sp"
/>
</LinearLayout>
Java1:
package com.example.practice_listview;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
public class MainActivity extends AppCompatActivity {
ListView myListView;
String[] countryName;
String selectedValue;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
```

```
myListView = findViewById(R.id.ListViewId);
countryName = getResources().getStringArray(R.array.Country_name);
ArrayAdapter<String> myAdapter = new
ArrayAdapter<String>(this,R.layout.sampleview,R.id.textViewId,countryName);
myListView.setAdapter(myAdapter);
myListView.setOnItemClickListener(new AdapterView.OnItemClickListener()
{
@Override
public void onItemClick(AdapterView<?> adapterView, View view, int
position, long id) {
selectedValue = countryName[position];
if(selectedValue.equals("Bangladesh")){
Intent myIntent = new Intent(MainActivity.this,MainActivity2.class);
startActivity(myIntent);
}
}
});
                                  Sampleview:
```

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>

<?xml version="1.0" encoding="utf-8"?>

```
android:orientation="vertical"
android:layout_width="match_parent"
android:layout_height="match_parent">
<TextView
android:id="@+id/textViewId"
android:listSelector="#A217BA"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text = "Hello"
android:textSize = "40sp"/>
</LinearLayout>
String:
<resources>
<string name="app_name">Practice_listview</string>
<string-array name="Country_name">
<item>Bangladesh</item>
<item>Japan</item>
<item>Argentina</item>
<item>Brazil</item>
<item>Germany</item>
</string-array>
</resources>
Xml2:
<?xml version="1.0" encoding="utf-8"?>
```

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
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"
android:orientation="vertical"
android:gravity="center"
tools:context=".MainActivity2">
<EditText
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:gravity="center"
android:hint="Insert Name"
android:id="@+id/editviewid"
android:textSize="40sp"/>
<Button
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="save"
android:textSize="30sp"/>
</LinearLayout>
```

Java2:

```
package com.example.practice_listview;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.EditText;
public class MainActivity2 extends AppCompatActivity {
EditText nameEdittext;
String name;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main2);
                                  Evaluation 2:
Xml1:
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
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"
android:orientation="vertical"
android:weightSum="2"
tools:context=".MainActivity">
```

```
<LinearLayout
android:layout_width="match_parent"
android:layout_height="0sp"
android:layout_weight="1"
android:weightSum="2">
<Button
android:id="@+id/btna"
android:layout_width="0sp"
android:layout_height="match_parent"
android:layout_weight="1"
android:onClick="Nextfunc"
android:gravity="center"
android:text="A"
android:textSize="30sp"/>
<Button
android:id="@+id/btnb"
android:layout_width="0sp"
android:layout_height="match_parent"
android:layout_weight="1"
android:onClick="Nextfunc"
android:gravity="center"
android:text="B"
android:textSize="30sp"/>
</LinearLayout>
```

```
<LinearLayout
android:layout_width="match_parent"
android:layout_height="0sp"
android:layout_weight="1"
android:weightSum="2">
<Button
android:id="@+id/btnc"
android:layout_width="0sp"
android:layout_height="match_parent"
android:layout_weight="1"
android:onClick="Nextfunc"
android:gravity="center"
android:text="C"
android:textSize="30sp"/>
<Button
android:id="@+id/btnd"
android:layout_width="0sp"
android:layout_height="match_parent"
android:layout_weight="1"
android:onClick="Nextfunc"
android:gravity="center"
android:text="D"
android:textSize="30sp"/>
</LinearLayout>
```

```
</LinearLayout>
Java1:
package com.example.evoluation2;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
public class MainActivity extends AppCompatActivity {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
}
public void Nextfunc(View view) {
Intent myIntent= new Intent(this, MainActivity2.class);
startActivity(myIntent);
}
}
Xml2:
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
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"
android:orientation="vertical"
android:gravity="center"
tools:context=".MainActivity2">
<LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content">
<TextView
android:layout_width="0sp"
android:layout_height="match_parent"
android:layout_weight="0.5"
android:gravity="center"
android:text="Name"
android:textSize="30sp"/>
<EditText
android:id="@+id/nameid"
android:layout_width="0sp"
android:layout_height="match_parent"
android:layout_weight="1.5"
android:gravity="center"
android:textSize="30sp"
tools:ignore="SpeakableTextPresentCheck"/>
</LinearLayout>
```

```
<LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content">
<TextView
android:layout_width="0sp"
android:layout_height="match_parent"
android:layout_weight="0.5"
android:gravity="center"
android:text="ID"
android:textSize="30sp"/>
<EditText
android:id="@+id/idid"
android:layout_width="0sp"
android:layout_height="match_parent"
android:layout_weight="1.5"
android:gravity="center"
android:textSize="30sp"
tools:ignore="SpeakableTextPresentCheck,SpeakableTextPresentCheck"/>
</LinearLayout>
<TextView
android:layout_marginTop="40sp"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:gravity="center"
```

```
android:text="Select Gender"
android:textSize="30sp"/>
< Radio Group
android:layout_marginTop="40sp"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/q1radiogrpId">
< Radio Button
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/maleradio"
android:text="Male"
android:textSize="25sp"
></RadioButton>
< Radio Button
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:id="@+id/femaleradio"
android:text="Female"
android:textSize="25sp"
></RadioButton>
</RadioGroup>
<Button
android:layout_marginTop="40sp"
```

```
android:id="@+id/btnactivity2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:onClick="Nextfunc2"
android:gravity="center"
android:text="Show Details"
android:textSize="30sp"/>
</LinearLayout>
Java2:
package com.example.evoluation2;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity2 extends AppCompatActivity {
RadioGroup myq1RadioGroup;
RadioButton male, female;
TextView text;
```

```
String name1, id1, gender, male1, female1;
EditText id, name;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main2);
id=findViewById(R.id.idid);
name=findViewById(R.id.nameid);
myq1RadioGroup=findViewById(R.id.q1radiogrpId);
}
public void Nextfunc2(View view) {
name1=name.getText().toString();
id1=id.getText().toString();
if(myq1RadioGroup.getCheckedRadioButtonId()==R.id.maleradio){
Toast.makeText(this, "Name "+name1+" Id "+id1+" Gender Male",
Toast.LENGTH_SHORT).show();
}
else{
Toast.makeText(this, "Name "+name1+" Id "+id1+" Gender Female",
Toast.LENGTH_SHORT).show();
}
```

Spinner:

Xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
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"
android:orientation="vertical"
android:gravity="center"
tools:context=".MainActivity">
<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Welcome and Best Wishes"
android:textSize="30sp"/>
<LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:orientation="horizontal"
android:weightSum="2">
<TextView
android:layout_marginTop="40sp"
android:layout_width="0sp"
```

```
android:layout_height="match_parent"
android:layout_weight="0.7"
android:text="Section"
android:textSize="25sp"
/>
<Spinner
android:layout_width="0sp"
android:layout_height="match_parent"
android:layout_weight="1.3"
android:id="@+id/spinnerid"
android:textSize="30sp"/>
</LinearLayout>
<LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:orientation="horizontal"
android:weightSum="2">
<TextView
android:layout_marginTop="20sp"
android:layout_width="0sp"
android:layout_height="match_parent"
android:layout_weight="0.7"
android:text="Enter Your ID:"
android:textSize="23sp"
```

```
/>
<EditText
android:id="@+id/idEditTextID"
android:layout_width="0sp"
android:layout_height="match_parent"
android:layout_weight="1.3"
android:gravity="center"
android:textSize="30sp"
tools:ignore="SpeakableTextPresentCheck" />
</LinearLayout>
<Button
android:layout_marginTop="30sp"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Let's Start"
android:onClick="btnFunction"
android:textSize="20sp"
/>
</LinearLayout>
Java:
package com.example.myquizapp;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
```

```
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.Toast;
import java.text.BreakIterator;
public class MainActivity extends AppCompatActivity implements
AdapterView.OnItemSelectedListener{
EditText idEditText;
Spinner mySpinner;
String id, sectionn;
String[]section={"PC-A","PC-B","PC_C","PC-D"};
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
idEditText= findViewById(R.id.idEditTextID);
mySpinner=findViewById(R.id.spinnerid);
ArrayAdapter myAA = new ArrayAdapter(this,
android.R.layout.simple_spinner_item,section);
myAA.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item
);
mySpinner.setAdapter(myAA);
```

```
mySpinner.setOnItemSelectedListener(this);
}
public void btnFunction(View view) {
String id =idEditText.getText().toString();
//String genderType = mySpinner.get().toString();
//Toast.makeText(this, "ID: "+id + "\n Section: "+sectionn,
Toast.LENGTH_SHORT).show();
Intent myIntent= new Intent(this, MainActivity2.class);
// Intent myIn= new Intent(this, MainActivity4.class);
myIntent.putExtra("ID", id);
myIntent.putExtra("sec", sectionn);
startActivity(myIntent);
}
@Override
public void onItemSelected(AdapterView<?> adapterView, View view, int i, long l) {
sectionn=section[i];
}
@Override
public void onNothingSelected(AdapterView<?> adapterView) {
}
```