FEP-II

Extra Practical Assignment-II

Batch-A3

Marks:10

Perform following task:

* Create an activity with a TextView, 2 Buttons and a Fragment. (2 M)
* On Button 1 click, open a fragment with Constraint Layout containing elements TextView, EditText, CheckBox and an ImageButton. On Image button click, retrieve all the values and call another activity designed with Frame layout and place all the values on the same. (4 M)
* On Button 2 click, open a fragment with Linear Layout containing elements Radio Group, radio Button and a Button. On button click, call another activity designed with a Frame Layout containing an ImageView and 2 TextView (4 M)

MainActivity.java

package com.example.fep3;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

Button b1,b2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b1 = findViewById(R.id.btn1);

b2 = findViewById(R.id.btn2);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

getSupportFragmentManager().beginTransaction().add(R.id.containers, new Fragment1()).commit();

}

});

b2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

getSupportFragmentManager().beginTransaction().add(R.id.containers, new Fragment2()).commit();

}

});

}

}

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:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Fragments Application"

android:textSize="20sp"

app:layout\_constraintBottom\_toTopOf="@+id/btn1"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<Button

android:id="@+id/btn1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="64dp"

android:layout\_marginTop="89dp"

android:layout\_marginEnd="253dp"

android:text="Fragment 1"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<Button

android:id="@+id/btn2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="104dp"

android:layout\_marginTop="89dp"

android:layout\_marginEnd="55dp"

android:text="fragment 2"

app:layout\_constraintBottom\_toTopOf="@+id/containers"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.555"

app:layout\_constraintStart\_toEndOf="@+id/btn1"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.035" />

<FrameLayout

android:id="@+id/containers"

android:layout\_width="match\_parent"

android:layout\_height="550dp"

android:layout\_marginStart="1dp"

android:layout\_marginTop="1dp"

android:layout\_marginEnd="1dp"

android:layout\_marginBottom="1dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/btn1"

app:layout\_constraintVertical\_bias="0.634">

</FrameLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

Fragment1.java

package com.example.fep3;

import android.app.Activity;

import android.content.Intent;

import android.media.Image;

import android.os.Bundle;

import androidx.fragment.app.Fragment;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.CheckBox;

import android.widget.EditText;

import android.widget.ImageButton;

public class Fragment1 extends Fragment {

Activity referenceActivity;

View parentHolder;

EditText name;

CheckBox ch;

ImageButton b1;

public Fragment1() {

// Required empty public constructor

}

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

}

@Override

public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {

referenceActivity = getActivity();

parentHolder = inflater.inflate(R.layout.fragment\_1, container, false);

name = (EditText) parentHolder.findViewById(R.id.nameOfUser);

ch = (CheckBox) parentHolder.findViewById(R.id.checkBox);

b1 = (ImageButton) parentHolder.findViewById(R.id.imageButton);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Intent i = new Intent(getActivity(),FragOnePass.class);

String names = name.getText().toString();

String lang = "";

if (ch.isChecked()){

lang = "Java";

}

i.putExtra("name",names);

i.putExtra("lang",lang);

startActivity(i);

}

});

// Inflate the layout for this fragment

return parentHolder;

}

}

Fragment\_1.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:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:layout\_editor\_absoluteX="-7dp"

tools:layout\_editor\_absoluteY="136dp">

<CheckBox

android:id="@+id/checkBox"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="62dp"

android:layout\_marginTop="44dp"

android:layout\_marginEnd="197dp"

android:text="Do you know Java?"

android:textSize="20sp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.134"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/nameOfUser" />

<EditText

android:id="@+id/nameOfUser"

android:layout\_width="150dp"

android:layout\_height="wrap\_content"

android:layout\_marginStart="109dp"

android:layout\_marginTop="180dp"

android:layout\_marginEnd="162dp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.547"

app:layout\_constraintStart\_toEndOf="@+id/nameText"

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/nameText"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="62dp"

android:layout\_marginTop="188dp"

android:layout\_marginEnd="291dp"

android:text="Name"

android:textSize="20sp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<ImageButton

android:id="@+id/imageButton"

android:layout\_width="84dp"

android:layout\_height="67dp"

android:layout\_marginStart="175dp"

android:layout\_marginTop="44dp"

android:layout\_marginEnd="180dp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.678"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/checkBox"

app:srcCompat="@android:drawable/btn\_star\_big\_on" />

</androidx.constraintlayout.widget.ConstraintLayout>

FragOnePass.java

package com.example.fep3;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView;

public class FragOnePass extends AppCompatActivity {

TextView t1;

@SuppressLint("MissingInflatedId")

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_frag\_one\_pass);

t1 = findViewById(R.id.result);

Intent i = getIntent();

String name = i.getStringExtra("name");

String lang = i.getStringExtra("lang");

t1.setText(name+" "+lang);

}

}

Activity\_frag\_one\_pass.xml

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

<FrameLayout 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=".FragOnePass">

<TextView

android:id="@+id/result"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="170dp"

android:layout\_marginTop="300dp"

android:text="TextView"

android:textSize="20sp" />

</FrameLayout>

Fragment2.java

package com.example.fep3;

import android.app.Activity;

import android.content.Intent;

import android.os.Bundle;

import androidx.fragment.app.Fragment;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.Button;

import android.widget.RadioButton;

import android.widget.RadioGroup;

public class Fragment2 extends Fragment {

Button b1;

Activity referenceActivity1;

View parentHolder1;

public Fragment2() {

// Required empty public constructor

}

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

}

@Override

public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {

referenceActivity1 = getActivity();

parentHolder1 = inflater.inflate(R.layout.fragment\_2, container, false);

b1 = (Button) parentHolder1.findViewById(R.id.button1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Intent i = new Intent(getActivity(),FragTwoPass.class);

startActivity(i);

}

});

// Inflate the layout for this fragment

return parentHolder1;

}

}

Fragment\_2.xml

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

<LinearLayout 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/ll"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

tools:context=".Fragment2">

<TextView

android:layout\_marginTop="50dp"

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Gender"

android:textSize="30sp" />

<RadioGroup

android:id="@+id/rg"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<RadioButton

android:id="@+id/male"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Male" />

<RadioButton

android:id="@+id/female"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Female" />

<Button

android:id="@+id/button1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Button" />

</RadioGroup>

</LinearLayout>

FragTwoPass.java

package com.example.fep3;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView;

public class FragTwoPass extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_frag\_two\_pass);

}

}

Activity\_frag\_two\_pass.xml

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

<FrameLayout 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=".FragTwoPass">

<TextView

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Welcome" />

<TextView

android:id="@+id/t2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="150dp"

android:text="Here :)" />

<ImageView

android:id="@+id/imageView2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

app:srcCompat="@drawable/abc" />

</FrameLayout>

Output:-

 

 

