

MOBILE APPLICATION PROGRAMMING LAB

PRACTICAL-5

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AIM: Implement the Explicit and implicit Intent. Make use of the form design for Newsletter Registration Form created in practical 4. Create a Second Activity that takes the data passed from MainActivity of the application and perform the various actions using implicit intent as shown below.

MAINACTIVITY.JAVA CODE:

```
package com.example.myapplication;

import androidx.annotation.RequiresApi;
import androidx.appcompat.app.AppCompatActivity;
import android.app.DatePickerDialog;
import android.app.ListActivity;
import android.content.Intent;
import android.os.Build;
import android.os.Bundle;
import android.util.SparseBooleanArray;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.CompoundButton;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.ListView;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Spinner;
import android.widget.Toast;
import java.util.ArrayList;
import java.util.Calendar;
public class MainActivity extends AppCompatActivity {
    EditText dobIp, editText, agecal;
    CheckBox c1;
    Button s1;
    ListView l1;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        // SCROLL SELECT LIST
```

```

String[] intrests;
l1 = (ListView) findViewById(R.id.l1);
intrests = getResources().getStringArray(R.array.intrests);
ArrayAdapter<String> adapter1 = new ArrayAdapter<String>(this,
    android.R.layout.select_dialog_multichoice, intrests);
l1.setAdapter(adapter1);
l1.setChoiceMode(2);
// FREQUENCY SCROLL LIST
String[] freq;
freq = getResources().getStringArray(R.array.Freq);
Spinner sp1 = (Spinner) findViewById(R.id.spinner1);
ArrayAdapter<String> adapter = new ArrayAdapter<String>(this,
    android.R.layout.simple_spinner_item, freq);
sp1.setAdapter(adapter);
// SUBMIT CHECKBOX
c1 = (CheckBox) findViewById(R.id.boxcheck);
s1 = (Button) findViewById(R.id.s1);
c1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        s1.setVisibility(view.VISIBLE);
        s1.setEnabled(true);
    }
});
EditText dobenter = (EditText) findViewById(R.id.textviewdob);
EditText ageenter = (EditText) findViewById(R.id.editage);
dobenter.setOnClickListener(new View.OnClickListener() {
    @RequiresApi(api = Build.VERSION_CODES.N)
    @Override
    public void onClick(View v) {
        final Calendar c = Calendar.getInstance();
        int year = c.get(Calendar.YEAR);
        int month = c.get(Calendar.MONTH);
        int date = c.get(Calendar.DATE);
        DatePickerDialog datePickerDialog = new
            DatePickerDialog(MainActivity.this, new
DatePickerDialog.OnDateSetListener() {
                @Override
                public void onDateSet(DatePicker view, int year, int
                    monthofYear, int dayOfMonth) {
                    dobenter.setText(dayOfMonth + "-" + (monthofYear +
1) + "-" + year);
                }
            }, year, month, date);
        datePickerDialog.show();
    }
});
EditText text1 = findViewById(R.id.entername);
EditText text2 = findViewById(R.id.entereid);
EditText text3 = findViewById(R.id.entermob);
EditText text4 = findViewById(R.id.textviewdob);
EditText text5 = findViewById(R.id.editage);
RadioGroup radio6 = findViewById(R.id.rgrp);
s1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        String val1 = text1.getText().toString();
        String val2 = text2.getText().toString();
    }
});

```

```

        String val3 = text3.getText().toString();
        String val4 = text4.getText().toString();
        String val5 = text5.getText().toString();
        String val6 = "";
        if (radio6.getCheckedRadioButtonId() == -1) {
        } else {
            int selectedId = radio6.getCheckedRadioButtonId();
            RadioButton sbutton = (RadioButton)
findViewById(selectedId);
            val6 = sbutton.getText().toString();
        }
        String val7 = String.valueOf(sp1.getSelectedItem());
        String val8 = String.valueOf(l1.getSelectedItem());
        if (val1 != "" && val2 != "" && val3 != "" && val6 != "" &&
val7
            != "" && val8 != "") {
            Bundle b = new Bundle();
            b.putString("Username", "Username : " + val1);
            b.putString("Email", "Email : " + val2);
            b.putString("Mobile_no", "Mobile No : " + val3);
            b.putString("DOB", "DOB : " + val4);
            b.putString("AGE", "AGE : " + val5);
            b.putString("Gender", "Gender : " + val6);
            b.putString("Frequency", "Frequency : " + val7);
            SparseBooleanArray checked =
l1.getCheckedItemPositions();
            ArrayList<String> selected = new ArrayList<String>();
            for (int x = 0; x < checked.size(); x++) {
                int checkedbox = checked.keyAt(x);
                if (checked.valueAt(x)) {
                    selected.add(adapter1.getItem(checkedbox));
                }
            }
            String[] listarr = new String[selected.size()];
            for (int x = 0; x < selected.size(); x++) {
                listarr[x] = selected.get(x);
            }
            // Intent intent = new Intent(MainActivity.this, MainActivity2.class);
            // intent.putExtras(bundle);
            // startActivity(intent);
            Intent i = new Intent(MainActivity.this,
                MainActivity2.class);
            b.putStringArray("Interests : ", listarr);
            i.putExtras(b);
            startActivity(i);
            Toast.makeText(MainActivity.this, "SUBMIT
SUCCESSFULLY",
                Toast.LENGTH_SHORT).show();
        }
        else{
            Toast.makeText(MainActivity.this, "Please fill all the
required fields.", Toast.LENGTH_SHORT).show();
        }
    }
    });
}
}

```

Main_activity.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">
    <TextView
        android:id="@+id/heading1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="NEWSLETTER REGISTRATION FORM"
        android:textAlignment="center"
        android:textSize="23dp" />
    <TextView
        android:id="@+id/name"
        android:layout_below="@id/heading1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Name:"
        android:layout_marginTop="10dp"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="15dp"
        android:textSize="23dp" />
    <EditText
        android:id="@+id/entername"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@id/heading1"
        android:layout_alignStart="@id/name"
        android:layout_toEndOf="@id/name"
        android:layout_marginLeft="70dp"
        android:layout_marginRight="10dp"/>
    <TextView
        android:id="@+id/emailid"
        android:layout_below="@id/name"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Email id:"
        android:layout_marginLeft="10dp"
        android:layout_marginTop="20dp"
        android:textSize="23dp" />
    <EditText
        android:id="@+id/entereid"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@id/entername"
        android:layout_alignStart="@id/emailid"
        android:layout_marginLeft="90dp"
        android:layout_marginRight="10dp"
        />

    <TextView
        android:id="@+id/mob"
        android:layout_below="@id/emailid"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Mob:"
        android:layout_marginLeft="10dp"
        android:layout_marginTop="20dp">
```

```

        android:textSize="23dp" />

<EditText
    android:id="@+id/entermob"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@id/mob"
    android:layout_alignStart="@id/mob"
    android:layout_marginStart="65dp"
    android:layout_marginTop="-40dp"
    android:layout_marginEnd="10dp"
    android:inputType="number" />

<TextView
    android:id="@+id/dob"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/mob"
    android:layout_marginLeft="10dp"
    android:layout_marginTop="20dp"
    android:inputType="date"
    android:text="DOB:"
    android:textSize="23dp" />

<EditText
    android:id="@+id/textviewdob"
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:layout_below="@id/mob"
    android:layout_marginStart="65dp"
    android:layout_marginLeft="10dp"
    android:layout_marginTop="6dp"
    android:inputType="date"
    android:textSize="23dp" />

<TextView
    android:id="@+id/gender"
    android:layout_below="@id/textviewdob"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="GENDER:"
    android:layout_marginLeft="8dp"
    android:layout_marginTop="50dp"
    android:textSize="23dp" />

<TextView
    android:id="@+id/age"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/mob"
    android:layout_marginLeft="260dp"
    android:layout_marginTop="20dp"
    android:text="AGE:"
    android:textSize="23dp" />

<EditText
    android:id="@+id/editage"
    android:layout_width="150dp"
    android:layout_height="wrap_content"
    android:layout_below="@id/mob"
    android:layout_marginLeft="320dp"
    android:textSize="23dp" />

<RadioGroup

```

```

        android:id="@+id/rgrp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@id/textviewdob"
        android:orientation="vertical">
        <RadioButton android:id="@+id/b1"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:text="MALE"
            android:textSize="16dp"
            android:layout_marginLeft="100dp"/>
        <RadioButton android:id="@+id/b2"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:text="FEMALE"
            android:textSize="16dp"
            android:layout_marginTop="-15dp"
            android:layout_marginLeft="100dp"/>
        <RadioButton android:id="@+id/b3"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:text="OTHERS"
            android:textSize="16dp"
            android:layout_marginTop="-15dp"
            android:layout_marginLeft="100dp"/>
    </RadioGroup>
    <TextView
        android:id="@+id/listmenu"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@id/gender"
        android:layout_marginLeft="10dp"
        android:layout_marginTop="40dp"
        android:text="FREQUENCY: "
        android:textSize="23dp" />
    <Spinner
        android:id="@+id/spinner1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@id/gender"
        android:layout_alignStart="@id/listmenu"
        android:layout_marginStart="139dp"
        android:layout_marginLeft="150dp"
        android:layout_marginTop="40dp" />
    <ListView
        android:id="@+id/l1"
        android:layout_width="match_parent"
        android:layout_height="100dp"
        android:layout_below="@id/spinner1"
        android:layout_marginLeft="130dp"
        android:layout_marginTop="17dp" />
    <TextView
        android:id="@+id/intrests"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@id/listmenu"
        android:layout_marginLeft="10dp"
        android:layout_marginTop="40dp"
        android:text="INTERESTS: "
        android:textSize="23dp" />
    <CheckBox

```

```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/boxcheck"
        android:layout_marginTop="70dp"
        android:layout_below="@id/intrests"
        android:text="I agree to the terms and conditions"/>
    <Button
        android:id="@+id/s1"
        android:visibility="visible"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/boxcheck"
        android:layout_marginLeft="150dp"
        android:layout_marginTop="16dp"
        android:text="SUBMIT"
        android:textColor="@color/black"/>
</RelativeLayout>
```

Arrays.Xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <array name="intrests">
        <item>Politics</item>
        <item>Cooking</item>
        <item>Performing Arts</item>
        <item>Computer Science</item>
    </array>
    <array name="Freq">
        <item>Daily</item>
        <item>Weekly</item>
        <item>Monthly</item>
        <item>Quaterly</item>
    </array>
</resources>
```

Main_activity2.java

```
package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.ListView;
import android.widget.TextView;
public class MainActivity2 extends AppCompatActivity {
```

```

        TextView textView1, textView2, textView3, textView4, textView5,
textView6,
        textView7, textView8;
    ListView lst;
    Button callB, submitB, locB, mailB, storeB, feedbackb;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        ListView lst; //LIST VIEW FOR INTRESTS
        Bundle b = getIntent().getExtras();
        if (b != null) {
            String val1 = b.getString("Username");
            String val2 = b.getString("Email");
            String val3 = b.getString("Mobile_no");
            String val4 = b.getString("DOB");
            String val5 = b.getString("AGE");
            String val6 = b.getString("Gender");
            String val7 = b.getString("Frequency");
            String[] val8 = b.getStringArray("Interests : ");
            ListView listView8 = findViewById(R.id.textview8);
            // MAKE ADAPTER FOR LISTVIEW
            ArrayAdapter<String> adapter = new ArrayAdapter<>(this,
                android.R.layout.simple_list_item_1, val8);
            listView8.setAdapter(adapter);
            TextView textView1 = findViewById(R.id.textview1);
            TextView textView2 = findViewById(R.id.textview2);
            TextView textView3 = findViewById(R.id.textview3);
            TextView textView4 = findViewById(R.id.textview4);
            TextView textView5 = findViewById(R.id.textview5);
            TextView textView6 = findViewById(R.id.textview6);
            TextView textView7 = findViewById(R.id.textview7);
            textView1.setText(val1);
            textView2.setText(val2);
            textView3.setText(val3);
            textView4.setText(val4);
            textView5.setText(val5);
            textView6.setText(val6);
            textView7.setText(val7);
            Button helpline = (Button) findViewById(R.id.helpline);
            Button feedback = (Button) findViewById(R.id.feedback);
            Button location = (Button) findViewById(R.id.location);
            Button query = (Button) findViewById(R.id.mail);
            Button download = (Button) findViewById(R.id.playstore);
            helpline.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View view) {
                    Intent i = new Intent(Intent.ACTION_VIEW,
                        Uri.parse("tel:+919423383050"));
                    startActivity(i);
                }
            });
            feedback.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View view) {
                    Intent fback = new Intent(MainActivity2.this,
                        com.example.myapplication.feedback.class);
                    startActivity(fback);
                }
            });
            location.setOnClickListener(new View.OnClickListener() {

```



```

        @Override
        public void onClick(View view) {
            Intent i = new Intent(Intent.ACTION_VIEW,
                Uri.parse("geo:21.11406545474039,
79.06987187518102"));
            startActivity(i);
        }
    });
    query.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent i = new Intent(Intent.ACTION_VIEW,
Uri.parse("mailto: vedantbhutada08@gmail.com"));
            startActivity(i);
        }
    });
    download.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent i = new Intent(Intent.ACTION_VIEW,
Uri.parse("https://play.google.com/store/search?q=pomodoro+app&c=apps"));
            startActivity(i);
        }
    });
}
}
}
}

```

activity_main2.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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:layout_gravity="center"
    android:paddingHorizontal="10dp"
    tools:context=".MainActivity2"
    >
    <TextView
        android:id="@+id/heading1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:gravity="center"
        android:text="Details:"
        android:textSize="25dp"
        android:layout_marginBottom="30dp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/textview1"
        android:layout_width="match_parent"

```

```

        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginBottom="10dp"
        android:textSize="20dp" />

<TextView
    android:id = "@+id/textview2"
    android:layout_width = "match_parent"
    android:layout_marginBottom="10dp"
    android:layout_height = "wrap_content"
    android:textSize="20dp"
    android:layout_gravity = "center"/>

<TextView
    android:id = "@+id/textview3"
    android:layout_marginBottom="10dp"
    android:layout_width = "match_parent"
    android:layout_height = "wrap_content"
    android:textSize="20dp"
    android:layout_gravity = "center" />

<TextView
    android:id = "@+id/textview4"
    android:textSize="20dp"
    android:layout_marginBottom="10dp"
    android:layout_width = "match_parent"
    android:layout_height = "wrap_content"
    android:layout_gravity = "center" />

<TextView
    android:id = "@+id/textview5"
    android:layout_marginBottom="10dp"
    android:layout_width = "match_parent"
    android:layout_height = "wrap_content"
    android:textSize="20dp"
    android:layout_gravity = "center" />

<TextView
    android:id = "@+id/textview6"
    android:layout_marginBottom="10dp"
    android:layout_width = "match_parent"
    android:textSize="20dp"
    android:layout_height = "wrap_content"
    android:layout_gravity = "center" />

<TextView
    android:id = "@+id/textview7"
    android:layout_marginBottom="10dp"
    android:layout_width = "match_parent"
    android:layout_height = "wrap_content"
    android:textSize="20dp"
    android:layout_gravity = "center" />

<ListView
    android:id="@+id/textview8"
    android:layout_width="match_parent"
    android:layout_height="133dp"
    android:layout_gravity="center"
    android:layout_marginBottom="2dp"
    android:textSize="20dp" />

<Button
    android:id="@+id/helpline"

```

```

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="20dp"
        android:layout_marginTop="20dp"
        android:layout_marginRight="20dp"
        android:text="HELPLINE/EMERGENCY"
        app:layout_constraintTop_toBottomOf="@id/textview8" />
    <Button android:id="@+id/feedback"
        app:layout_constraintTop_toBottomOf="@id/helpline"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Submit Feedback"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"/>
    <Button android:id="@+id/location"
        app:layout_constraintTop_toBottomOf="@id/feedback"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="LOCATE US"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"/>
    <Button android:id="@+id/mail"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        app:layout_constraintTop_toBottomOf="@id/location"
        android:text="For any query write to us"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"/>
    <Button android:id="@+id/playstore"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        app:layout_constraintTop_toBottomOf="@id/mail"
        android:text="Download APP"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"/>
</LinearLayout>

```

Feedback.java

```

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.RatingBar;
import android.widget.Toast;
public class feedback extends AppCompatActivity {
    RatingBar rb;
    @Override
    protected void onCreate(Bundle savedInstanceState) {

```

```

        super.onCreate(savedInstanceState);
        setContentView(R.layout.feedback);
        Button bt = findViewById(R.id.sub);
        bt.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Toast.makeText(feedback.this, "Thank You for the
Feedback!",
                                Toast.LENGTH_SHORT).show();
            }
        });
    }
}

```

Feedback.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=".feedback">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/title"
        android:text="FEEDBACK"
        android:textAlignment="center"
        android:textSize="35dp"
        tools:ignore="MissingConstraints" />
    <TextView
        android:layout_marginTop="25dp"
        android:id="@+id/comm"
        app:layout_constraintTop_toBottomOf="@id/title"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Give us Your Feedback:"
        android:textSize="25dp"
        android:layout_marginStart="10dp"
        android:layout_marginEnd="10dp"
        tools:ignore="MissingConstraints" />
    <EditText
        android:id="@+id/fbcom"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        tools:ignore="MissingConstraints"
        android:layout_marginStart="10dp"
        android:layout_marginEnd="10dp"
        app:layout_constraintTop_toBottomOf="@id/comm"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/sub"
        android:text="SUBMIT"

```

```

android:layout_marginTop="25dp"
app:layout_constraintTop_toBottomOf="@id/fbcom"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
tools:ignore="MissingConstraints" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

OUTPUT:

NEWSLETTER REGISTRATION FORM

Name:

Email id:

Mob:

DOB: AGE:

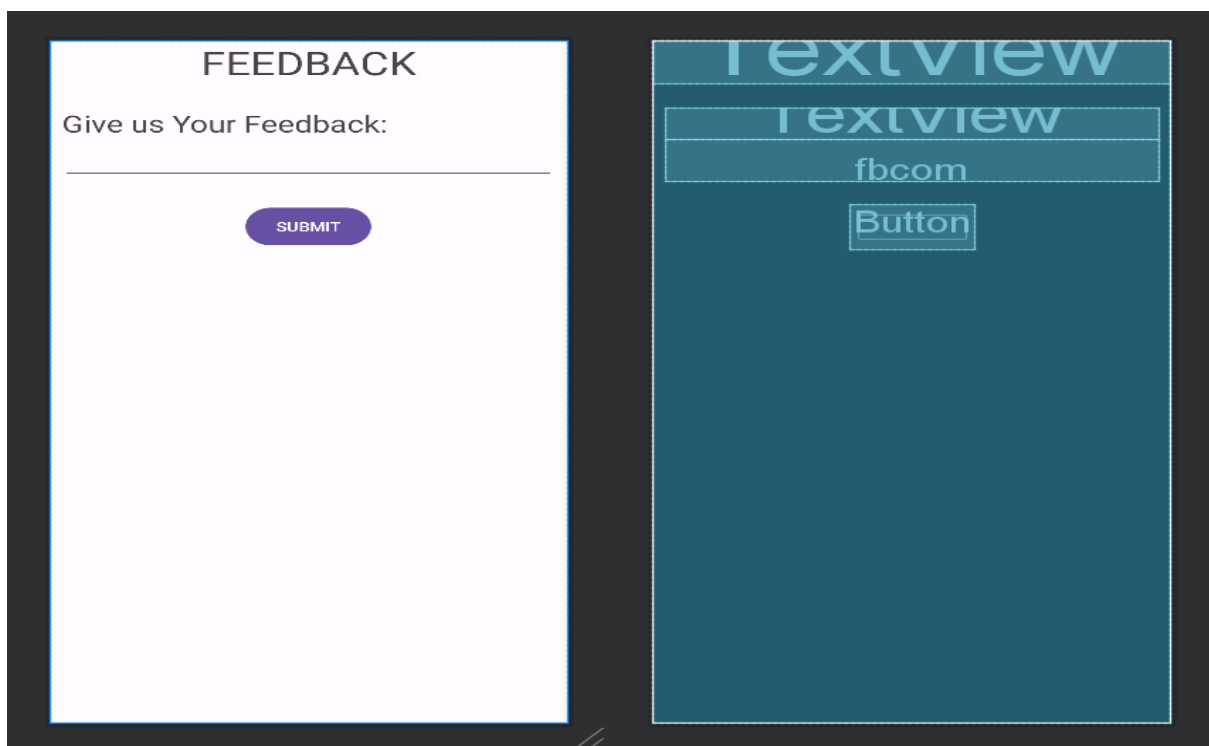
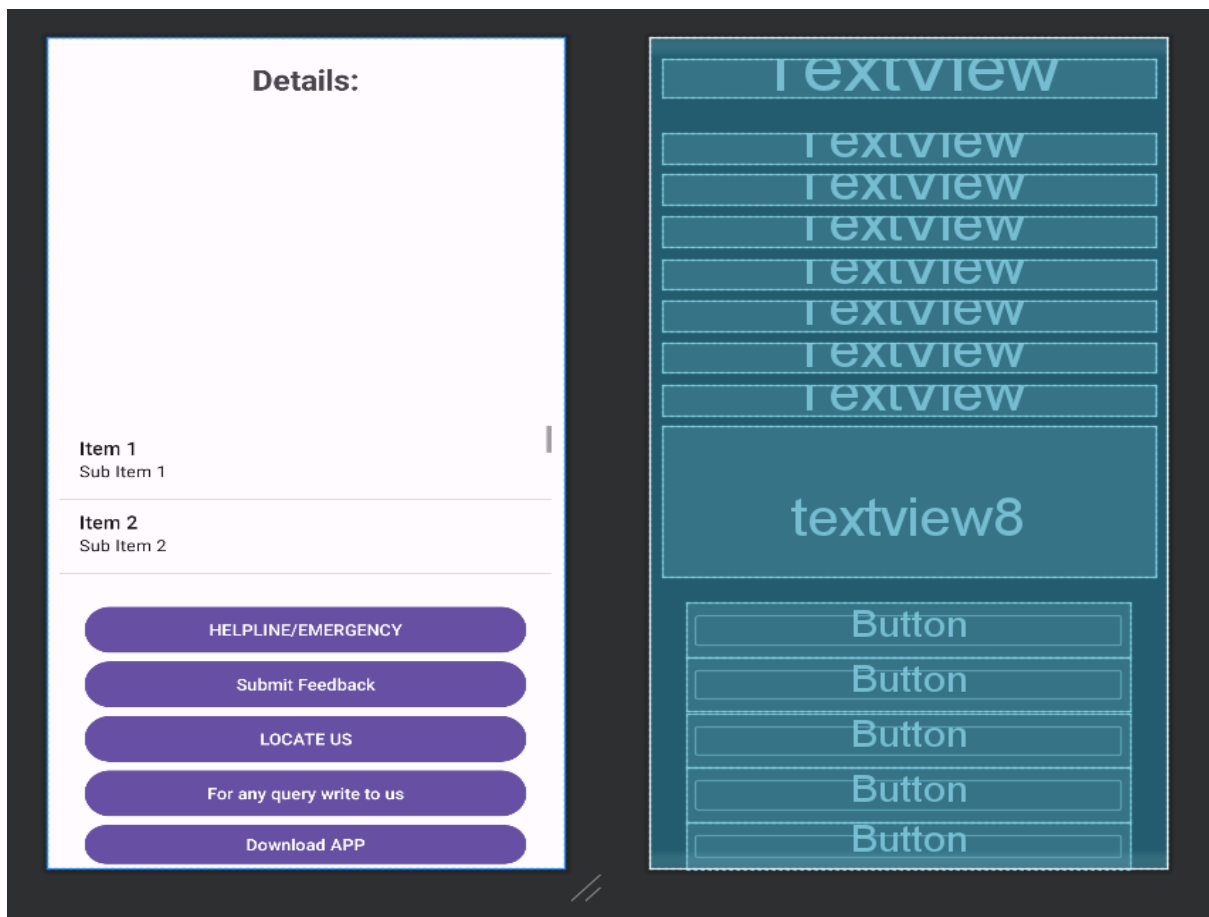
GENDER: ☐ MALE ☐ FEMALE ☐ OTHERS

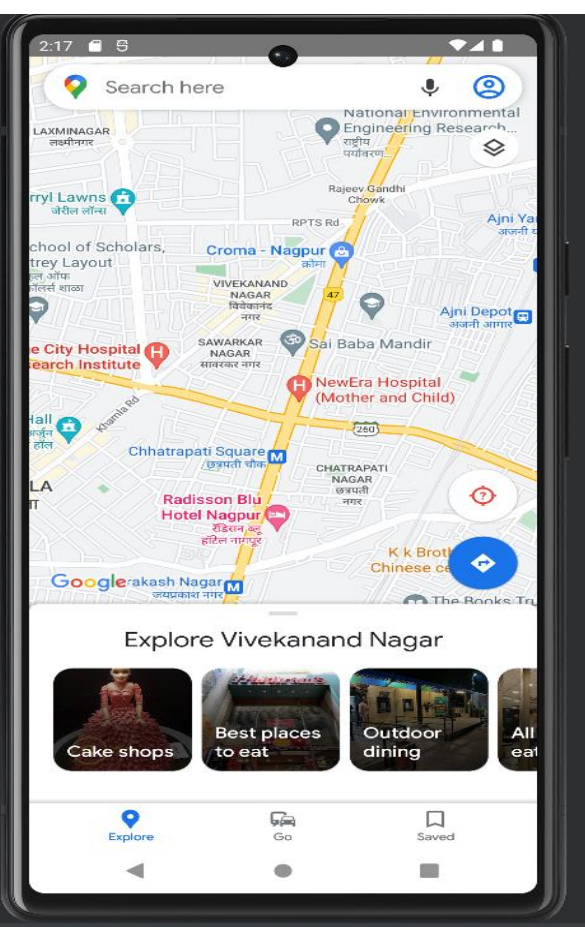
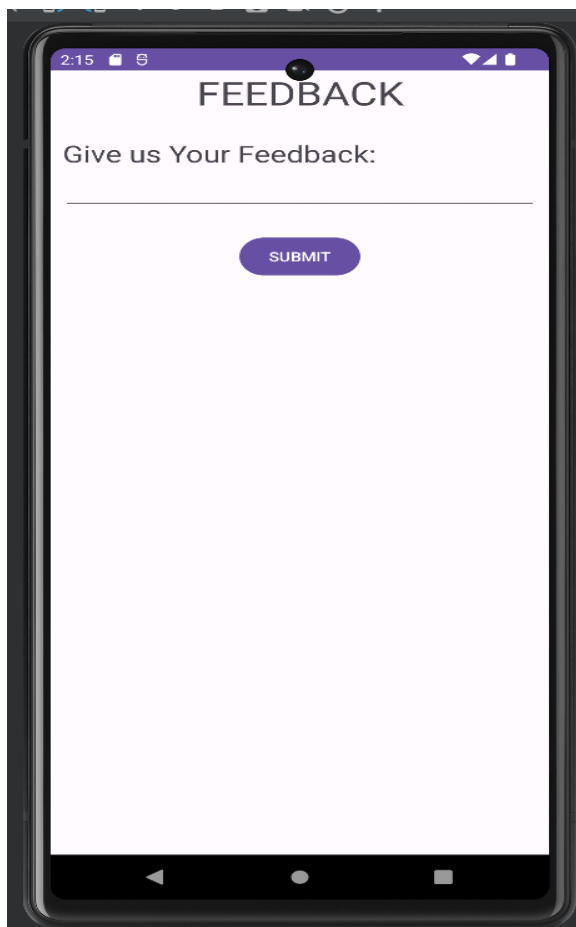
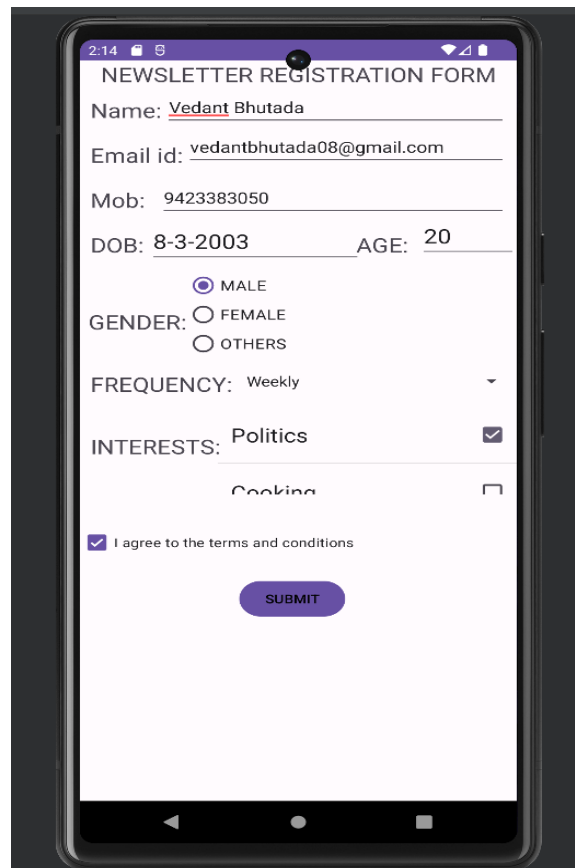
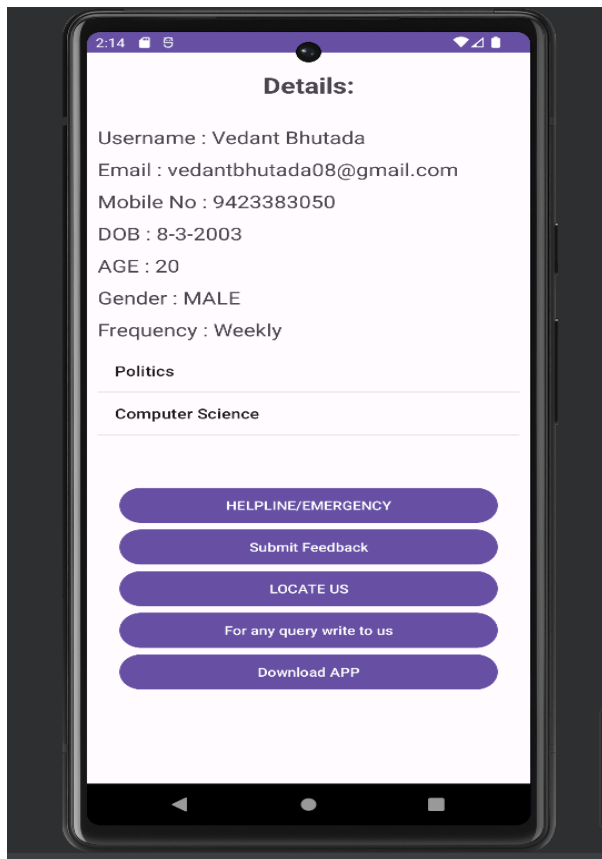
FREQUENCY: Item 1 ▼

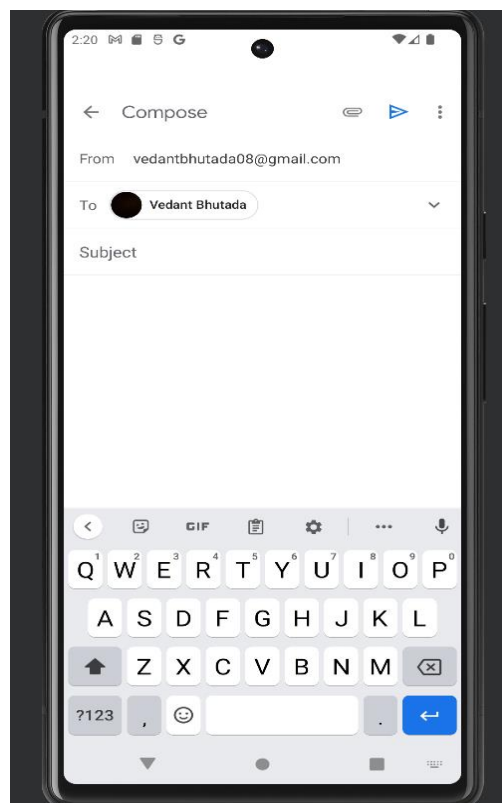
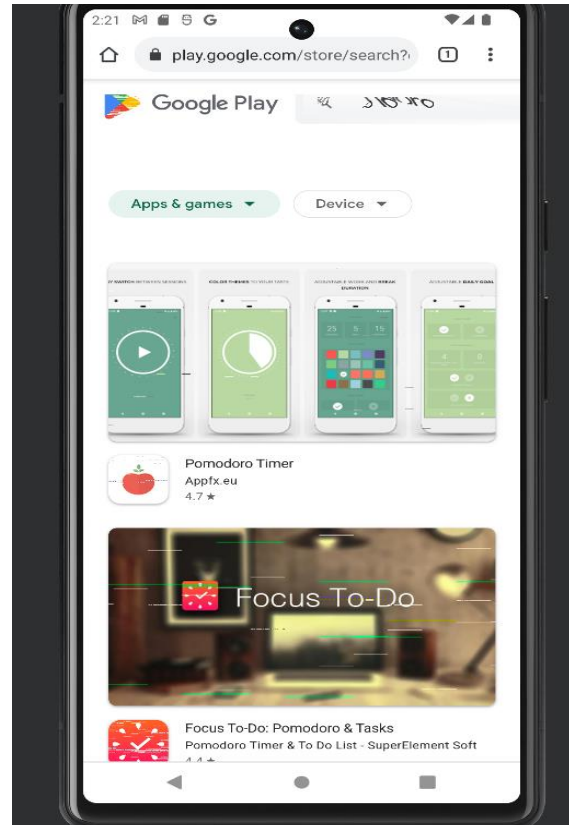
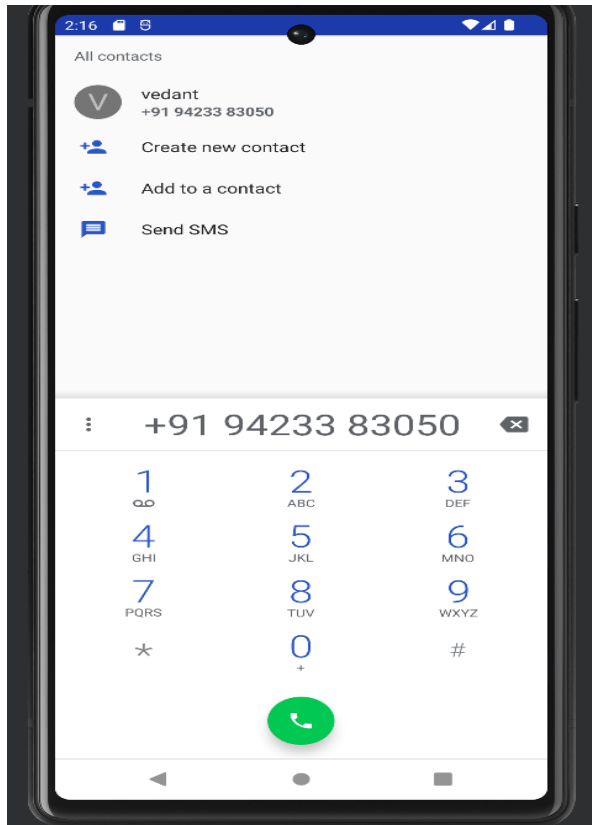
INTERESTS: Item 1
Sub Item 1
Item 2

☐ I agree to the terms and conditions

SUBMIT







CONCLUSION: In this practical we successfully implemented the Implicit and Explicit intent using News letter registration form created in previous practical.