

MOBILE APPLICATION PROGRAMMING LAB

PRACTICAL-4

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BATCH: A4

AIM: 4. Design UI for Newsletter Registration Form using a Relative Layout that has different views as shown in the form and write a Java code for event handling.

MAINACTIVITY.JAVA CODE:

```
package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

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.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.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(ll.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);
                    b.putString("Interests", "Interests : " + val8);
                    Intent i = new Intent(MainActivity.this,
MainActivity.class);
                    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();
                }
            }
        });
    }
}

```

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"
    android:background="@color/white">
    <TextView
        android:id="@+id/heading1"
        android:layout_width="match_parent"

```

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        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:layout_alignBaseline="@id/entername"
    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"

```

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        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"

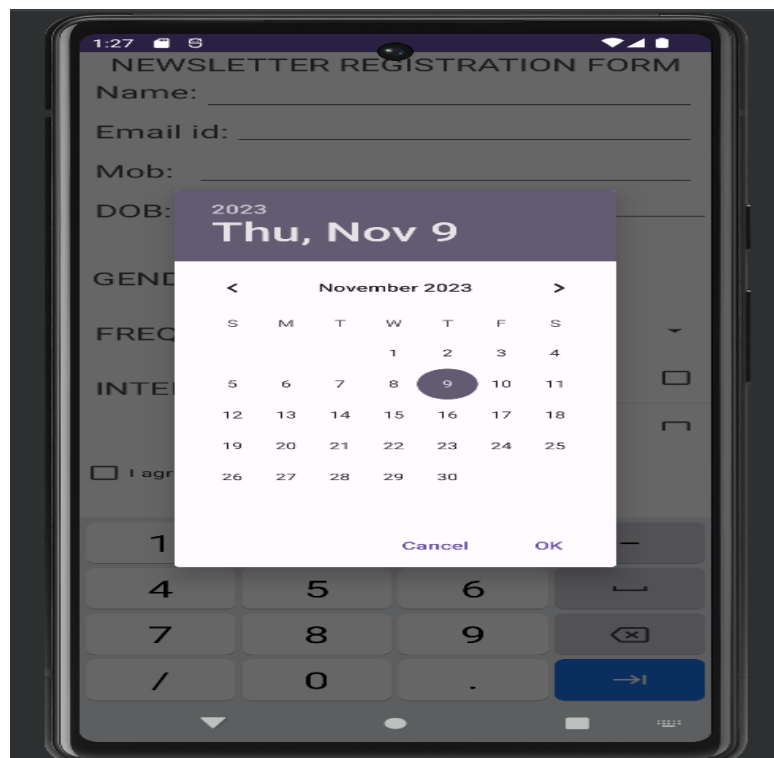
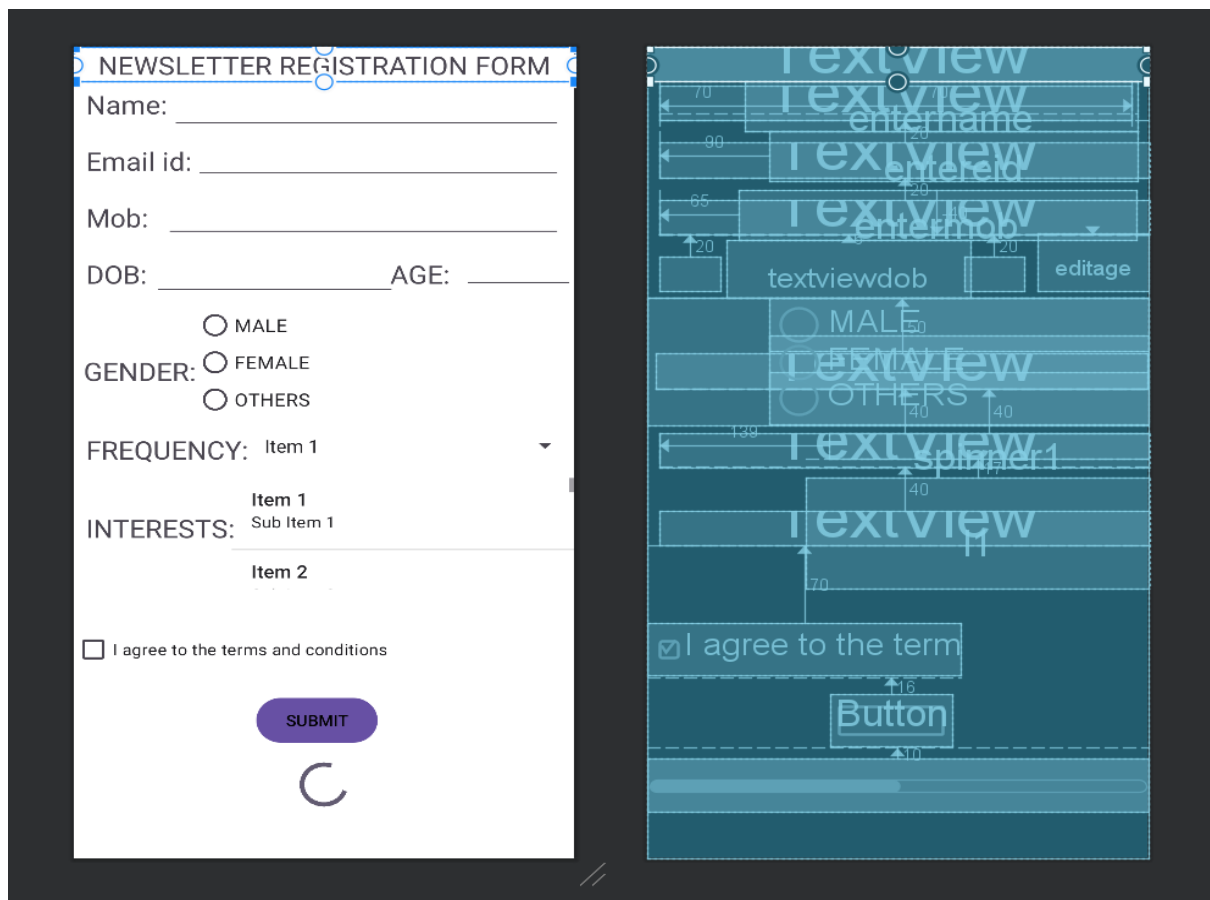
```

```
        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"/>
    <ProgressBar
        android:id="@+id/progressBar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@id/s1"
        android:layout_marginTop="10dp"
        android:max="100"
        android:progress="0" />
</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>
```

OUTPUT:



Mob: _____

DOB: 8-3-2003 AGE: 20

GENDER: ☐ MALE
☐ FEMALE
☐ OTHERS

1:16

NEWSLETTER REGISTRATION FORM

Name: vedant bhutada

Email id: _____

Mob: _____

DOB: _____ AGE: _____

GENDER: ☐ MALE
☐ FEMALE
☐ OTHERS

FREQUENCY: Daily

INTERESTS: ☒ Politics
☐ Cooking

☐ I agree to the terms and conditions

SUBMIT

Layout Ins

CONCLUSION: In this practical we successfully implemented the News letter Registration form using various views,relative layout and handled events using java code.