

Experiment – 5

Aim: Design an application to check the user is eligibility to vote or not by reading the data of birth and aadhar card number.

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/header"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Vote Eligibility"
    android:textSize="24sp"
    android:textStyle="bold"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintBottom_toTopOf="@+id/nameBox"/>

<TextView
    android:id="@+id/nameLbl"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="User Name"
    android:textStyle="bold"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/header"
    app:layout_constraintBottom_toTopOf="@+id/aadharLbl"
    app:layout_constraintEnd_toStartOf="@+id/nameBox" />

<EditText
    android:id="@+id/nameBox"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:minHeight="48dp"
    android:hint="Enter Username"
    android:inputType="text"
    app:layout_constraintStart_toEndOf="@+id/nameLbl"
    app:layout_constraintBottom_toTopOf="@+id/aadharBox"
    app:layout_constraintTop_toBottomOf="@+id/header"
    app:layout_constraintEnd_toEndOf="parent"/>
```

```
<TextView
    android:id="@+id/aadharLbl"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Aadhar No."
    android:textStyle="bold"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/nameLbl"
    app:layout_constraintBottom_toTopOf="@+id/dobLbl"
    app:layout_constraintEnd_toStartOf="@+id/aadharBox"/>
```

```
<EditText
    android:id="@+id/aadharBox"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:minHeight="48dp"
    android:hint="Enter Aadhar Number"
    android:inputType="number"
    app:layout_constraintStart_toEndOf="@+id/aadharLbl"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/nameBox"
    app:layout_constraintBottom_toTopOf="@id/dateBox"/>
```

```
<TextView
    android:id="@+id/dobLbl"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Date of Birth"
    android:textStyle="bold"
    app:layout_constraintBottom_toTopOf="@+id/checkBtn"
    app:layout_constraintTop_toBottomOf="@+id/aadharLbl"
    app:layout_constraintEnd_toStartOf="@+id/dateBox"
    app:layout_constraintStart_toStartOf="parent"/>
```

```
<EditText
    android:id="@+id/dateBox"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:minHeight="48dp"
    android:hint="Select Date"
    android:inputType="date"
    app:layout_constraintStart_toEndOf="@+id/dobLbl"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/aadharBox"
    app:layout_constraintBottom_toTopOf="@+id/checkBtn"/>
```

```
<Button
```

```
    android:id="@+id/checkBtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Check"
    android:onClick="checkEligibility"
    app:layout_constraintTop_toBottomOf="@+id/aadharBox"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintBottom_toBottomOf="parent"/>
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java:

```
package com.example.agecalcdpd;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.app.DatePickerDialog;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;

import java.util.Calendar;

public class MainActivity extends AppCompatActivity {
    EditText name, num, date;
    Button btn;
    int diff;

    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        name = findViewById(R.id.nameBox);
        num = findViewById(R.id.aadharBox);
        date = findViewById(R.id.dateBox);
        date.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Calendar c = Calendar.getInstance();
                int pYear = c.get(Calendar.YEAR);
                int pMonth = c.get(Calendar.MONTH);
                int pDate = c.get(Calendar.DATE);
```

```

        DatePickerDialog dialog = new DatePickerDialog(MainActivity.this,
android.R.style.Theme_DeviceDefault_DialogWhenLarge, new
DatePickerDialog.OnDateSetListener() {
    @Override
    public void onDateSet(DatePicker view, int year, int month, int dayOfMonth) {
        date.setText(dayOfMonth+"/"+(month+1)+"/"+year);
        diff = pYear - year;
    }
},pYear, pMonth, pDate);
    dialog.show();
}
});
}

public void checkEligibility(View v) {
    String s_name = name.getText().toString();
    String s_num = num.getText().toString();
    Intent in = new Intent(getApplicationContext(), ResultActivity.class);
    in.putExtra("NAME",s_name);
    in.putExtra("AADHAR",s_num);
    in.putExtra("AGE",diff);
    startActivity(in);
}
}

```

activity result.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=".ResultActivity">

<TextView
    android:id="@+id/result"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:gravity="center_horizontal"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

ResultActivity.java:

```

package com.example.agecalcdpd;

```

```

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

public class ResultActivity extends AppCompatActivity {
    TextView res;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_result);
        res = findViewById(R.id.result);
        Intent intt = getIntent();
        String r_name = intt.getStringExtra("NAME");
        String r_aadhar = intt.getStringExtra("AADHAR");
        int age = intt.getIntExtra("AGE",0);
        if(age>=18)
            res.setText("Name: "+r_name+"\nAadhar Number: "+r_aadhar+"\n You are eligible to vote");
        else
            res.setText("Name: "+r_name+"\nAadhar Number: "+r_aadhar+"\n You are not eligible to
vote");
    }
}

```

Output:

