**Problem Statement:** Create an application to display Student Registration Form using a spinner(subject) , radio button(gender) and checkbox(qualification) and show data in the next activity

**AndroidManifest.xml Manifest File:**

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.studentregistrationapp">

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.AppCompat.Light.DarkActionBar">

<activity android:name=".RegistrationActivity"

android:exported="true">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

<activity android:name=".DisplayActivity" />

</application>

</manifest>

**activity\_registration.xml Layout Resource File:**

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp">

<Spinner

android:id="@+id/spinnerSubjects"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content" />

<RadioGroup

android:id="@+id/radioGroupGender"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical">

<RadioButton

android:id="@+id/radioButtonMale"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Male" />

<RadioButton

android:id="@+id/radioButtonFemale"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Female" />

</RadioGroup>

<CheckBox

android:id="@+id/checkBoxQualification"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Qualification" />

<Button

android:id="@+id/buttonSubmit"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Submit"

android:layout\_gravity="center\_horizontal" />

</LinearLayout>

**Activity\_display.xml Layout Resource File:**

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

<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:padding="16dp">

<TextView

android:id="@+id/textViewDisplay"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="18sp" />

</ScrollView>

**colors.xml Values Resource File:**

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

<resources>

<color name="black">#FF000000</color>

<color name="white">#FFFFFFFF</color>

</resources>

**strings.xml Values Resource File:**

<resources>

<string name="app\_name">StudentRegistrationApp</string>

<string-array name="subjects\_array">

<item>Mathematics</item>

<item>Physics</item>

<item>Chemistry</item>

<item>Biology</item>

<item>History</item>

</string-array>

</resources>

**Styles.xml Values Resource File:**

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

<resources>

<style name="AppTheme"></style>

</resources>

**RegistrationActivity.java JAVA File:**

package com.example.studentregistrationapp;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.ArrayAdapter;

import android.widget.Button;

import android.widget.CheckBox;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.Spinner;

import androidx.appcompat.app.AppCompatActivity;

public class RegistrationActivity extends AppCompatActivity {

private Spinner spinnerSubjects;

private RadioGroup radioGroupGender;

private CheckBox checkBoxQualification;

private Button buttonSubmit;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_registration);

spinnerSubjects = findViewById(R.id.spinnerSubjects);

radioGroupGender = findViewById(R.id.radioGroupGender);

checkBoxQualification = findViewById(R.id.checkBoxQualification);

buttonSubmit = findViewById(R.id.buttonSubmit);

// Populate the spinner with subjects

ArrayAdapter<CharSequence> adapter = ArrayAdapter.createFromResource(this,

R.array.subjects\_array, android.R.layout.simple\_spinner\_item);

adapter.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);

spinnerSubjects.setAdapter(adapter);

buttonSubmit.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String selectedSubject = spinnerSubjects.getSelectedItem().toString();

int selectedGenderId = radioGroupGender.getCheckedRadioButtonId();

RadioButton selectedGender = findViewById(selectedGenderId);

boolean isQualificationChecked = checkBoxQualification.isChecked();

Intent intent = new Intent(RegistrationActivity.this, DisplayActivity.class);

intent.putExtra("selectedSubject", selectedSubject);

intent.putExtra("selectedGender", selectedGender.getText().toString());

intent.putExtra("isQualificationChecked", isQualificationChecked);

startActivity(intent);

}

});

}

}

**DisplayActivity.java JAVA File:**

package com.example.studentregistrationapp;

import android.os.Bundle;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class DisplayActivity extends AppCompatActivity {

private TextView textViewDisplay;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_display);

textViewDisplay = findViewById(R.id.textViewDisplay);

String selectedSubject = getIntent().getStringExtra("selectedSubject");

String selectedGender = getIntent().getStringExtra("selectedGender");

boolean isQualificationChecked = getIntent().getBooleanExtra("isQualificationChecked", false);

String displayText = "Subject: " + selectedSubject + "\n" +

"Gender: " + selectedGender + "\n" +

"Qualification: " + (isQualificationChecked ? "Yes" : "No");

textViewDisplay.setText(displayText);

}

}

**OUTPUT:**



