**Problem Statement:** Create an application to display Railway Ticket Registration Form using a spinner (Berth Choice), radio button (Name of destination City: 3 options) and checkbox (Meal variety) and show data in the next activity.

**AndroidManifest.xml Manifest File:**

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

package="com.example.indianrailwayticketapp">

<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">

<!-- Main Activity Declaration -->

<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>

<!-- Display Activity Declaration -->

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

</application>

</manifest>

**activity\_registration.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">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Berth Choice:"

android:textSize="18sp" />

<Spinner

android:id="@+id/spinnerBerthChoice"

android:layout\_width="match\_parent"

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

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Destination City:"

android:textSize="18sp" />

<RadioGroup

android:id="@+id/radioGroupDestination"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical">

<RadioButton

android:id="@+id/radioButtonKashmir"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Kashmir"

android:textSize="16sp" />

<RadioButton

android:id="@+id/radioButtonPune"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Pune"

android:textSize="16sp" />

<RadioButton

android:id="@+id/radioButtonDelhi"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Delhi"

android:textSize="16sp" />

</RadioGroup>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Meal Preference:"

android:textSize="18sp" />

<CheckBox

android:id="@+id/checkBoxVeg"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Vegetarian"

android:textSize="16sp" />

<CheckBox

android:id="@+id/checkBoxNonVeg"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Non-Vegetarian"

android:textSize="16sp" />

<Button

android:id="@+id/buttonSubmit"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center\_horizontal"

android:text="Submit"

android:textSize="18sp" />

</LinearLayout>

</ScrollView>

**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-array name="berth\_choices\_array">

<item>Upper Berth</item>

<item>Lower Berth</item>

<item>Sleeper Berth</item>

</string-array>

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

</resources>

**RegistrationActivity.java JAVA File:**

package com.example.indianrailwayticketapp;

import android.content.Intent;

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.RadioButton;

import android.widget.RadioGroup;

import android.widget.Spinner;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class RegistrationActivity extends AppCompatActivity {

private Spinner spinnerBerthChoice;

private RadioGroup radioGroupDestination;

private CheckBox checkBoxVeg, checkBoxNonVeg;

private Button buttonSubmit;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_registration);

spinnerBerthChoice = findViewById(R.id.spinnerBerthChoice);

radioGroupDestination = findViewById(R.id.radioGroupDestination);

checkBoxVeg = findViewById(R.id.checkBoxVeg);

checkBoxNonVeg = findViewById(R.id.checkBoxNonVeg);

buttonSubmit = findViewById(R.id.buttonSubmit);

// Populate the spinner with berth choices

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

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

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

spinnerBerthChoice.setAdapter(berthAdapter);

buttonSubmit.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String selectedBerthChoice = spinnerBerthChoice.getSelectedItem().toString();

int selectedDestinationId = radioGroupDestination.getCheckedRadioButtonId();

RadioButton selectedDestination = findViewById(selectedDestinationId);

boolean isVegChecked = checkBoxVeg.isChecked();

boolean isNonVegChecked = checkBoxNonVeg.isChecked();

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

intent.putExtra("selectedBerthChoice", selectedBerthChoice);

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

intent.putExtra("isVegChecked", isVegChecked);

intent.putExtra("isNonVegChecked", isNonVegChecked);

startActivity(intent);

}

});

}

}

**DisplayActivity.java JAVA File:**

package com.example.indianrailwayticketapp;

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 selectedBerthChoice = getIntent().getStringExtra("selectedBerthChoice");

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

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

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

String mealPreference = "";

if (isVegChecked) {

mealPreference = "Vegetarian";

} else if (isNonVegChecked) {

mealPreference = "Non-Vegetarian";

} else {

mealPreference = "No Preference";

}

String displayText = "Berth Choice: " + selectedBerthChoice + "\n" +

"Destination City: " + selectedDestination + "\n" +

"Meal Preference: " + mealPreference;

textViewDisplay.setText(displayText);

}

}

**OUTPUT:**



