PRESIDENCY UNIVERSITY

Mobile application development(CSE 3075)

20211CSE0223

SNEHA.R

5CSE4

Experiment 10: Option Menu

1.Design (activity_main.xml)

```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"
    android:background="@drawable/img">

    <TextView
        android:id="@+id/tv1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:fontFamily="sans-serif-condensed"
        android:text="Hello World!"
        android:textColor="#068A86"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <androidx.appcompat.widget.Toolbar
        android:id="@+id/toolbar"
        android:layout_width="409dp"
        android:layout_height="wrap_content"
        android:background="?attr/colorPrimary"
        android:minHeight="?attr/actionBarSize"
        android:theme="?attr/actionBarTheme"
        tools:layout_editor_absoluteX="1dp"
        tools:layout_editor_absoluteY="-3dp"
        tools:ignore="MissingConstraints" />
```

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

2.JAVA File

```java
package com.example.optionmenu_0223;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.TextView;
import android.widget.Toast;
//import android.widget.Toolbar;
import androidx.appcompat.widget.Toolbar;

public class MainActivity extends AppCompatActivity {
Toolbar toolbar;
TextView tv1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        toolbar=findViewById(R.id.toolbar);
        tv1=findViewById(R.id.tv1);
        setSupportActionBar(toolbar);
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        MenuInflater menuInflater=getMenuInflater();
        menuInflater.inflate(R.menu.my_menufile,menu);
        return true;
    }

    @SuppressLint("SetTextI18n")
    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        if(item.getItemId()==R.id.item1) {
            tv1.setText("SEARCH MENU");
            Toast.makeText(MainActivity.this,"SEARCH
MENU",Toast.LENGTH_LONG).show();
            return  true;
        }
        else if(item.getItemId()==R.id.item2){
            tv1.setText("SETTINGS MENU");
            Toast.makeText(MainActivity.this,"SETTINGS
MENU",Toast.LENGTH_LONG).show();
            return true;
        }
        else if(item.getItemId()==R.id.submenu1) {
            tv1.setText("SUB MENU 1");
```

```
            Toast.makeText(MainActivity.this,"SUB MENU
1",Toast.LENGTH_LONG).show();
            return true;
        }
        else if(item.getItemId()==R.id.submenu2) {
            tv1.setText("SUB MENU 2");
            Toast.makeText(MainActivity.this,"SUB MENU
2",Toast.LENGTH_LONG).show();
            return true;
        }
        else {
            tv1.setText("PAYMENTS MENU");
            Toast.makeText(MainActivity.this,"PAYMENTS
MENU",Toast.LENGTH_LONG).show();
        }
        return super.onOptionsItemSelected(item);
    }
}
```

3.Design (my_menufile.xml)

```xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:tools="http://schemas.android.com/tools"
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto">
<item
    android:id="@+id/item1"
    android:title="@string/search"
    app:showAsAction="always"
    android:icon="@drawable/baseline_manage_search_24"
    tools:ignore="AlwaysShowAction" />
    <item
        android:id="@+id/item2"
        android:title="@string/settings"
        app:showAsAction="never"
        >
        <menu>
            <item
                android:id="@+id/submenu1"
                android:title="@string/submenu1"
                />
            <item
                android:id="@+id/submenu2"
                android:title="@string/submenu2"

                />


        </menu>
    </item>
    <item
        android:id="@+id/item3"
        android:title="@string/payments"
        app:showAsAction="never" />
</menu>
```
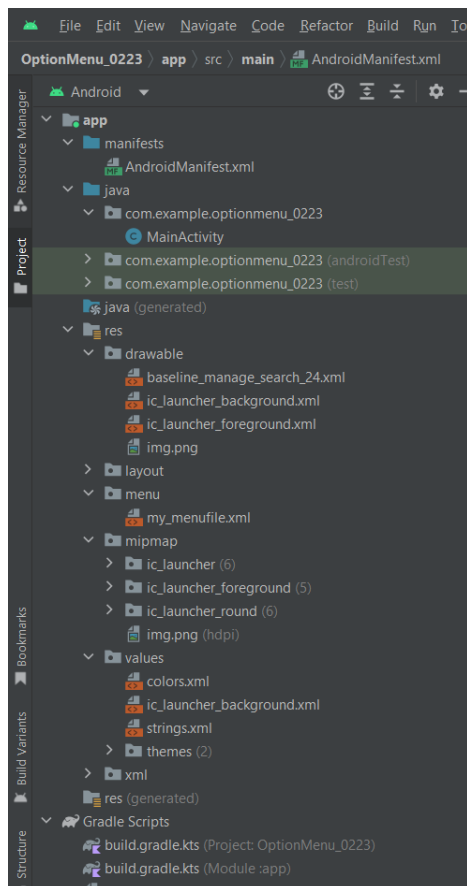
AndroidManifest.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        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.NoActionBar"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true"
            android:icon="@mipmap/img">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER"
/>
            </intent-filter>
        </activity>
    </application>

</manifest>
```


4.Output in the Emulator

Hello World!

SEARCH MENU

SEARCH MENU

SETTINGS ▸

PAYMENTS

SEARCH MENU

SETTINGS

SubMenu1

SubMenu2

SETTINGS MENU

SETTINGS MENU