

Experiment – 9

Aim: Design an application to create an options menu for the android activity.

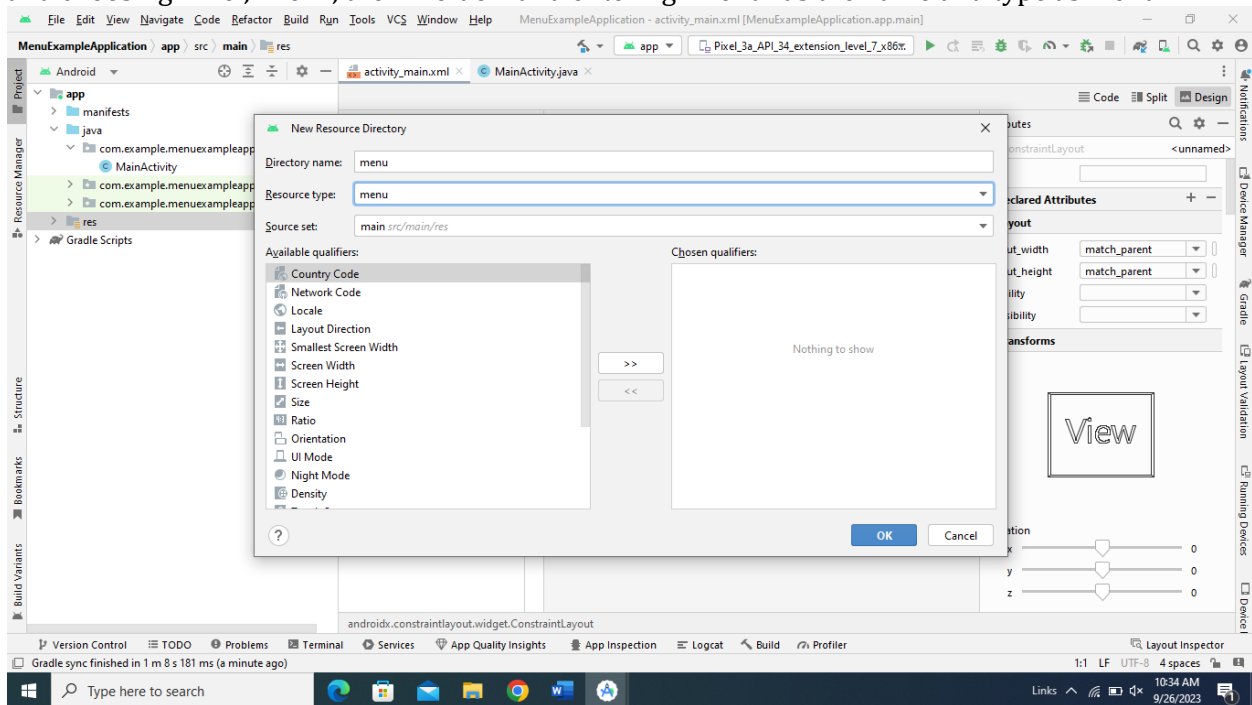
Solution:

Step 1: Change an element in <application> attribute in AndroidManifest.xml:

`android:theme="@style/Theme.AppCompat.Light.NoActionBar"`

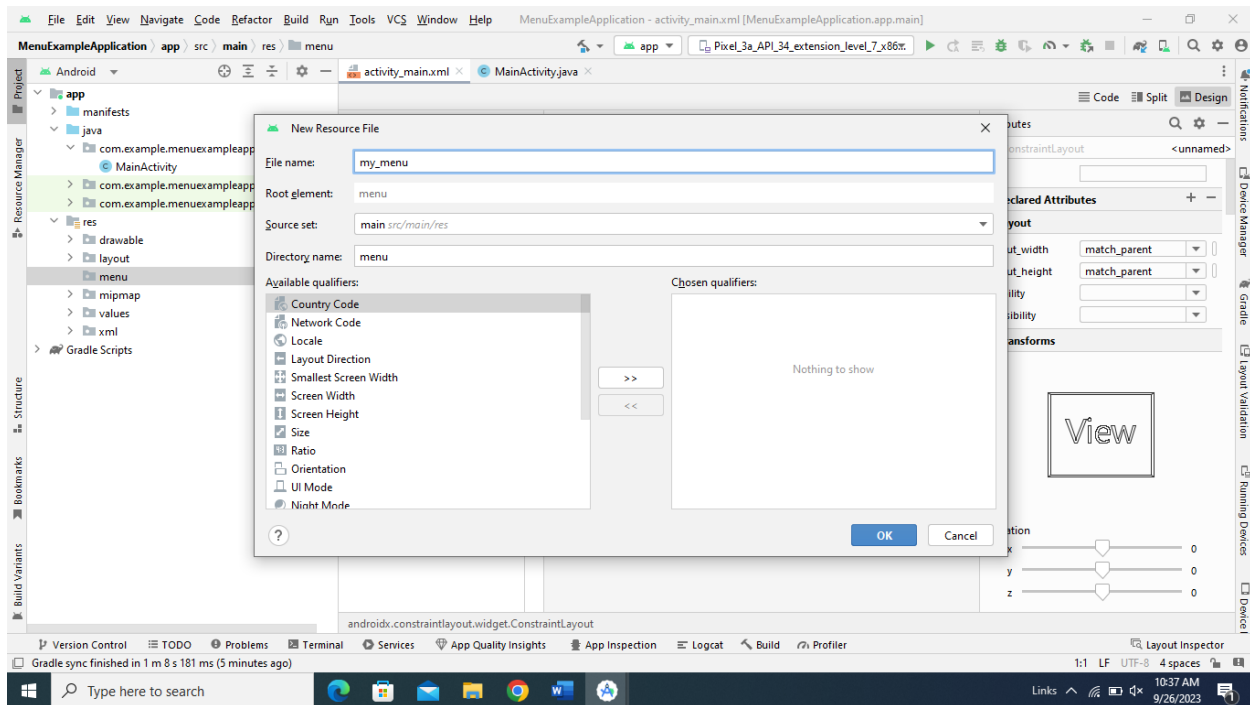
Step 2: Create a resource directory

To create a menu, you need to create menu folder so create one inside the “res” folder by selecting it and choosing “File”, “New”, then “Folder” and entering “menu” as the name and type as menu.



Step 3: create a menu XML file:

Choose the “menu” folder and create a new file by selecting “Menu Resource File”, “New”, then “File” and entering a name. You can choose any filename you like, for example “my_menu.xml”.



Step 4: my_menu.xml:

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

    <item
        android:id="@+id/search"
        android:icon="@android:drawable/ic_menu_search"
        android:title="Search"
        app:showAsAction="always" />
    <item
        android:id="@+id/settings"
        android:title="Settings"
        app:showAsAction="never" />
    <item
        android:id="@+id/deleteid"
        android:title="Delete"
        app:showAsAction="never" />
</menu>
```

Step 5: 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">
```

```
<androidx.appcompat.widget.Toolbar
    android:id="@+id/my_toolbar"
    android:layout_width="match_parent"
    android:layout_height="?attr/actionBarSize"
    android:background="?attr/colorPrimary"
    android:elevation="4dp"
    android:theme="@style/ThemeOverlay.AppCompat.ActionBar"
    app:layout_constraintBottom_toTopOf="@+id/textView"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="1.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.0"
    app:popupTheme="@style/ThemeOverlay.AppCompat.Light" />
```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hello World!"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

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

Step 6: MainActivity.java:

```
package com.example.menuexampleprogram;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
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 androidx.appcompat.widget.Toolbar;
```

```
public class MainActivity extends AppCompatActivity {
    TextView res;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
```

**Make sure that
androidx.appcompat.widget.Toolb
ar package imported to java code.**

```

    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    res = findViewById(R.id.textView);
    Toolbar myToolBar = findViewById(R.id.my_toolbar);
    setSupportActionBar(myToolBar);
}
@Override
public boolean onCreateOptionsMenu(Menu menu){
    MenuInflater inflater = getMenuInflater();
    inflater.inflate(R.menu.my_menu,menu);
    return true;
}
@Override
public boolean onOptionsItemSelected(MenuItem item){
    if(item.getItemId()==R.id.search){
        res.setText("Search");
        Toast.makeText(this, "Search Menu", Toast.LENGTH_SHORT).show();
        return true;
    } else if (item.getItemId()==R.id.settings) {
        res.setText("Settings");
        Toast.makeText(this, "Settings Menu", Toast.LENGTH_SHORT).show();
        return true;
    } else if (item.getItemId()==R.id.deleteid) {
        res.setText("Delete");
        Toast.makeText(this, "Delete Menu", Toast.LENGTH_SHORT).show();
        return true;
    }
    else
        return super.onOptionsItemSelected(item);
}
}

```

Output:

