

## LAB7 MENUS

### MAINACTIVITY.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"
    android:background="@drawable/lab7_bg2"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="104dp"
        android:fontFamily="@font/aclonica"
        android:text="Jack"
        android:textSize="24sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/imageView2"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:fontFamily="@font/aclonica"
        android:text="Jack123@gmail.com"
        android:textSize="20sp"
        app:layout_constraintEnd_toEndOf="@+id/imageView2"
        app:layout_constraintHorizontal_bias="0.461"
        app:layout_constraintStart_toStartOf="@+id/imageView2"
        app:layout_constraintTop_toBottomOf="@+id/imageView2" />

    <TextView
        android:id="@+id/textView6"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="56dp"
        android:fontFamily="@font/aclonica"
        android:text="9876543210"
        android:textSize="20sp"
        app:layout_constraintEnd_toEndOf="@+id/imageView2"
        app:layout_constraintHorizontal_bias="0.451"
        app:layout_constraintStart_toStartOf="@+id/imageView2"
        app:layout_constraintTop_toBottomOf="@+id/imageView2" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="172dp"
        android:fontFamily="@font/aclonica"
        android:text="MCA"
        android:textSize="24sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/imageView2"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/button"
```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:fontFamily="@font/alfa_slab_one"
        android:onClick="showPopup"
        android:text="MARKS"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/imageView2"
        app:layout_constraintVertical_bias="0.603" />

<ImageView
    android:id="@+id/imageView2"
    android:layout_width="185dp"
    android:layout_height="183dp"
    android:layout_marginStart="28dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.108"
    app:srcCompat="@drawable/person" />

<ImageView
    android:id="@+id/imageView3"
    android:layout_width="98dp"
    android:layout_height="79dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.948"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/button"
    app:layout_constraintVertical_bias="0.833"
    app:srcCompat="@drawable/ic_baseline_navigate_next_24" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

## MAINACTIVITY2.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=".MainActivity2">

    <ScrollView
        android:layout_width="372dp"
        android:layout_height="681dp"

        app:layout_constraintBottom_toBottomOf="parent"
        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">

        <LinearLayout
            android:layout_width="345dp"
            android:layout_height="617dp"
            android:orientation="vertical"
            app:layout_constraintBottom_toBottomOf="parent"

```

```

app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent">

<androidx.cardview.widget.CardView
    android:layout_width="150dp"
    android:layout_height="150dp"
    android:layout_margin="20dp"
    app:cardCornerRadius="20dp"
    app:cardElevation="10dp">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center_horizontal"
        android:orientation="vertical">

        <ImageView
            android:id="@+id/im1"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:layout_marginTop="10dp"
            android:src="@drawable/lab7_stu1" />

    </LinearLayout>

</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:layout_width="150dp"
    android:layout_height="150dp"
    android:layout_margin="20dp"
    app:cardCornerRadius="20dp"
    app:cardElevation="10dp">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center_horizontal"
        android:orientation="vertical">

        <ImageView
            android:id="@+id/imageView2"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:layout_marginTop="10dp"
            android:src="@drawable/lab7_stu2" />

    </LinearLayout>

</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:layout_width="150dp"
    android:layout_height="150dp"
    android:layout_margin="20dp"
    app:cardCornerRadius="20dp"
    app:cardElevation="10dp">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center_horizontal"
        android:orientation="vertical">

```

```

        <ImageView
            android:id="@+id/im3"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:layout_marginTop="10dp"
            android:src="@drawable/lab7_stu3" />

    </LinearLayout>

</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:layout_width="150dp"
    android:layout_height="150dp"
    android:layout_margin="20dp"
    app:cardCornerRadius="20dp"
    app:cardElevation="10dp">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center_horizontal"
        android:orientation="vertical">

        <ImageView
            android:id="@+id/im4"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:layout_marginTop="10dp"
            android:contentDescription="TODO"
            android:src="@drawable/lab7_stu4" />

    </LinearLayout>

</androidx.cardview.widget.CardView>

</LinearLayout>
</ScrollView>

</androidx.constraintlayout.widget.ConstraintLayout>

```

## MAINACTIVITY.JAVA

```

package com.example.new_lab7_menus;

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

import android.content.ClipData;
import android.content.DialogInterface;
import android.content.Intent;
import android.graphics.drawable.ColorDrawable;
import android.net.Uri;
import android.os.Bundle;
import android.provider.MediaStore;
import android.view.Gravity;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;

```

```

import android.view.View;
import android.view.ViewTreeObserver;
import android.widget.ImageView;
import android.widget.PopupMenu;
import android.widget.Switch;
import android.widget.Toast;

import com.google.android.material.dialog.MaterialAlertDialogBuilder;

public class MainActivity extends AppCompatActivity implements
PopupMenu.OnMenuItemClickListener {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        getSupportActionBar().setBackgroundDrawable(new
ColorDrawable(getResources().getColor(R.color.teal_200)));

        ImageView imageView = (ImageView) findViewById(R.id.imageView3);
        imageView.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = new Intent(MainActivity.this, MainActivity2.class);
                startActivity(intent);
            }
        });
    }

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

    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        switch (item.getItemId()) {
            case R.id.home:
                Toast.makeText(this, "Returned to Home Page" ,
Toast.LENGTH_SHORT).show();
                Intent intent = new Intent(MainActivity.this, MainActivity.class);
                startActivity(intent);
                finish();
                return true;

            case R.id.search:
                Toast.makeText(this, "Searching..." , Toast.LENGTH_SHORT).show();
                return true;

            case R.id.profile:
                Toast.makeText(this, "Details" , Toast.LENGTH_SHORT).show();
                new MaterialAlertDialogBuilder(MainActivity.this)
                    .setTitle("Details")
                    .setMessage("Name : Jack\n " +
                        "Age: 22 \nCourse : MCA")
                    .setNeutralButton("OK", new DialogInterface.OnClickListener()
{
                        @Override

```

```

        public void onClick(DialogInterface dialogInterface, int
i) {
            dialogInterface.dismiss();
        }
    })
    .show();
    return true;

    case R.id.setting:
        Toast.makeText(this, "Go to Settings " , Toast.LENGTH_SHORT).show();
        return true;

    case R.id.more:
//        Toast.makeText(this, "" , Toast.LENGTH_SHORT).show();
        return true;

    case R.id.logout:
        Toast.makeText(this, "Logged Out" , Toast.LENGTH_SHORT).show();
        finish();
        return true;

    case R.id.location:
        Intent intent1 = new Intent(Intent.ACTION_VIEW);
        intent1.setData(Uri.parse("geo:12.9393585,77.5940298"));
        startActivity(intent1);
        return true;

    case R.id.phone:
        Intent intent2 = new Intent(Intent.ACTION_DIAL);
        intent2.setData(Uri.parse("tel:+91976543210"));
        startActivity(intent2);
        return true;

    case R.id.camera:
        Intent intent3 = new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
        startActivity(intent3);
        return true;

    case R.id.message:
//        Intent intent4 = new Intent(Intent.ACTION_SENDTO);
//        intent4.setData(Uri.parse("mailto:")); // only email apps should
handle this
//        intent4.putExtra(Intent.EXTRA_EMAIL, "abcd@gmail.com");
//        intent4.putExtra(Intent.EXTRA_SUBJECT, "Review");
//        if (intent4.resolveActivity(getPackageManager()) != null) {
//            startActivity(intent4);
//        }
        Intent intent4 = new Intent(Intent.ACTION_SENDTO);
        intent4.setData(Uri.parse("mailto:ok@christuniversity.in"));
        startActivity(intent4);

    default:
        return super.onOptionsItemSelected(item);
    }
}

public void showPopup(View view) {
    PopupMenu popup = new PopupMenu(this, view);
    popup.setOnMenuItemClickListener(this);
    popup.inflate(R.menu.popup_menu);
    popup.show();
}

@Override

```

```

public boolean onOptionsItemSelected(MenuItem menuItem) {
    switch(menuItem.getItemId()) {
        case R.id.item2_1:
            Toast toast = Toast.makeText(this, "Marks in Java : 80/100",
                Toast.LENGTH_SHORT);
            toast.setGravity(Gravity.CENTER, 1, 1);
            toast.show();
            return true;

        case R.id.item2_2:
            Toast toast1 = Toast.makeText(this, "Marks in C : 75/100",
                Toast.LENGTH_SHORT);
            toast1.setGravity(Gravity.CENTER, 0, 0);
            toast1.show();
            return true;

        case R.id.item2_3:
            Toast toast3 = Toast.makeText(this, "Marks in Python : 81/100",
                Toast.LENGTH_SHORT);
            toast3.setGravity(Gravity.CENTER, 1, 1);
            toast3.show();
            return true;

        case R.id.item2_4:
            Toast toast4 = Toast.makeText(this, "Marks in Android : 79/100",
                Toast.LENGTH_SHORT);
            toast4.setGravity(Gravity.CENTER, 1, 1);
            toast4.show();
            return true;

        case R.id.item2_5:
            Toast toast5 = Toast.makeText(this, "Marks in Web Development :
88/100",
                Toast.LENGTH_SHORT);
            toast5.setGravity(Gravity.CENTER, 1, 1);
            toast5.show();
            return true;

        default:
            return false;
    }
}
}

```

## MAINACTIVITY2.JAVA

```

package com.example.new_lab7_menus;

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

import android.os.Bundle;
import android.view.ActionMode;
import android.view.ContextMenu;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.ImageView;
import android.widget.Toast;

public class MainActivity2 extends AppCompatActivity {
    private ImageView imageView;
}

```

```

private ActionMode mActionMode;

@Override
protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main2);
    getSupportActionBar().setDisplayHomeAsUpEnabled(true);

    imageView = findViewById(R.id.im1);
    ImageView imageView2 = findViewById(R.id.imageView2);
    ImageView imageView3 = findViewById(R.id.im3);
    ImageView imageView4 = findViewById(R.id.im4);
    // registerForContextMenu(imageView);
    registerForContextMenu(imageView2);
    registerForContextMenu(imageView3);
    registerForContextMenu(imageView4);

    imageView.setOnLongClickListener(new View.OnLongClickListener() {
        @Override
        public boolean onLongClick(View v) {
            if (mActionMode != null) {
                return false;
            }
            mActionMode = startActionMode(mActionModeCallback);
            return true;
        }
    });
}

private ActionMode.Callback mActionModeCallback = new ActionMode.Callback() {
    @Override
    public boolean onCreateActionMode(ActionMode mode, Menu menu) {
        mode.getMenuInflater().inflate(R.menu.contextmenu, menu);
        mode.setTitle("Choose your option");
        return true;
    }

    @Override
    public boolean onPrepareActionMode(ActionMode mode, Menu menu) {
        return false;
    }

    @Override
    public boolean onActionItemClicked(ActionMode mode, MenuItem item) {
        switch (item.getItemId()) {
            case R.id.option_1:
                Toast.makeText(MainActivity2.this, "Option 1 selected",
Toast.LENGTH_SHORT).show();
                mode.finish();
                return true;
            case R.id.option_2:
                Toast.makeText(MainActivity2.this, "Option 2 selected",
Toast.LENGTH_SHORT).show();
                mode.finish();
                return true;
            default:
                return false;
        }
    }
}

@Override

```



```

        public void onDestroyActionMode(ActionMode mode) {
            mActionMode = null;
        }
    };

    //floating contextual
    @Override
    public void onCreateContextMenu(ContextMenu menu, View v,
ContextMenu.ContextMenuInfo menuInfo) {
        getMenuInflater().inflate(R.menu.contextmenu, menu);
        super.onCreateContextMenu(menu, v, menuInfo);
    }

    @Override
    public boolean onContextItemSelected(@NonNull MenuItem item) {
        Toast.makeText(this, ""+item.getTitle(), Toast.LENGTH_SHORT).show();
        return super.onContextItemSelected(item);
    }
}

```

## CONTEXTMENU.XML

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto">
    <item
        android:id="@+id/option_1"
        android:title="Delete"
        android:icon="@drawable/ic_baseline_delete_24"
        app:showAsAction="always"/>

    <item
        android:id="@+id/option_2"
        android:icon="@drawable/ic_share"
        android:title="Share" />

    <item
        android:id="@+id/check_option"
        android:title="check"
        android:icon="@drawable/download"
        app:showAsAction="ifRoom"/>

        <item
            android:id="@+id/check_option2"
            android:title="check2"
            android:icon="@drawable/ic_baseline_arrow_drop_up_24"
            app:showAsAction="ifRoom">

    </item>

</menu>

```

## FIRSTPAGE\_MENU.XML

```

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

    <item android:id="@+id/home"

```

```
        android:title="Home"
        android:icon="@drawable/home_icon"
        app:showAsAction="always">

</item>
<item android:id="@+id/search"
        android:title="Search"
        android:icon="@drawable/search_icon"
        app:showAsAction="always">
</item>
<item android:id="@+id/profile"
        android:title="Profile"
        android:icon="@drawable/person_icon"
        app:showAsAction="always">
</item>

<item android:id="@+id/setting"
        android:title="Settings"
        android:icon="@drawable/setting_icon"
        app:showAsAction="never">
</item>
<item android:id="@+id/camera"
        android:title="Open Camera"
        android:icon="@drawable/ic_camera"
        app:showAsAction="never">
</item>

<item android:id="@+id/more"
        android:title="More Items"
        app:showAsAction="never">
    <menu>
        <item android:id="@+id/phone"
                android:title="Contact Us"
                android:icon="@drawable/phone_icon"
                app:showAsAction="never">

        </item>

        <item android:id="@+id/location"
                android:title="Locate Us"
                android:icon="@drawable/location_icon"
                app:showAsAction="never">

        </item>

        <item android:id="@+id/message"
                android:title="Message us"
                android:icon="@drawable/message_icon"
                app:showAsAction="never">
        </item>

        <item android:id="@+id/logout"
                android:title="Log Out"
                android:icon="@drawable/sign_out_icon"
                app:showAsAction="never">

        </item>
    </menu>
</item>
</menu>
```

## POPUPMENU.XML

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

    <item
        android:id="@+id/item2_1"
        android:title="JAVA">
    </item>

    <item
        android:id="@+id/item2_2"
        android:title="C">
    </item>

    <item
        android:id="@+id/item2_3"
        android:title="PYTHON">
    </item>

    <item
        android:id="@+id/item2_4"
        android:title="ANDROID">
    </item>

    <item
        android:id="@+id/item2_5"
        android:title="WEB DEVELOPMENT">
    </item>
</menu>
```

## MANIFEST

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
          xmlns:tools="http://schemas.android.com/tools"
          package="com.example.new_lab7_menus">

    <!--      <uses-permission android:name="loc"-->
    <!--      <uses-permission android:name="android.permission.CAMERA"></uses-
permission>-->
    <!--      <uses-permission android:name="android.permission.INTERNET"></uses-
permission>-->
    <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:supportRtl="true"
        android:theme="@style/Theme.New_lab7_menus"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity2"
            android:exported="false"

            android:parentActivityName=".MainActivity"/>
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
```

```
        <action android:name="android.intent.action.MAIN" />
<!--        <data android:scheme="mailto" />-->
        <category android:name="android.intent.category.LAUNCHER" />
    </intent-filter>

</activity>

    <meta-data
        android:name="preloaded_fonts"
        android:resource="@array/preloaded_fonts" />
</application>

</manifest>
```