**[2CEIT5PE5: MOBILE APPLICATION DEVELOPMENT]**

Practical: 3



AIM: Create following UI by using [ConstraintLayout,](https://developer.android.com/training/constraint-layout) [LinearLayout](https://developer.android.com/guide/topics/ui/layout/linear), in one android Application. Create two activities for each layout & use [BottomNavigationBar](https://m3.material.io/components/navigation-bar/implementation/android) & Explicit Intent to move from one activity to another activity. Don't use LinearLayout in ConstraintLayout and vice versa.

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Enrollment number: 21012022030



**Department of Computer Engineering/Information Technology**

**activity\_login.xml**

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

<androidx.coordinatorlayout.widget.CoordinatorLayout 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=".LoginActivity">

<com.google.android.material.appbar.AppBarLayout android:id="@+id/appBarLayout" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:fitsSystemWindows="true">

<com.google.android.material.appbar.MaterialToolbar android:id="@+id/toolbar" android:layout\_width="match\_parent" android:layout\_height="?attr/actionBarSize" app:layout\_scrollFlags="scroll|enterAlways|snap" />

</com.google.android.material.appbar.AppBarLayout>

<androidx.core.widget.NestedScrollView android:id="@+id/nestedScrollView" android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:layout\_marginBottom="50dp" app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior">

<androidx.constraintlayout.widget.ConstraintLayout android:layout\_width="match\_parent" android:layout\_height="match\_parent" app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior">

<ImageView

android:id="@+id/imageView" android:layout\_width="match\_parent" android:layout\_height="100dp" android:src="@drawable/guni\_logo" tools:ignore="MissingConstraints" />

<com.google.android.material.card.MaterialCardView android:id="@+id/cv\_login" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_gravity="center" app:layout\_anchorGravity="center" android:layout\_marginStart="20dp" android:layout\_marginEnd="20dp" app:cardElevation="20dp" app:layout\_constraintTop\_toBottomOf="@+id/imageView" tools:layout\_editor\_absoluteX="20dp">

<com.google.android.material.textfield.TextInputLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginStart="20dp" android:layout\_marginTop="20dp" android:layout\_marginEnd="20dp" android:hint="Email" app:endIconDrawable="@drawable/ic\_baseline\_email\_24" app:endIconTint="@color/icon\_color" app:endIconMode="custom">

<com.google.android.material.textfield.TextInputEditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:inputType="textEmailAddress" />

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginStart="20dp" android:layout\_marginTop="90dp" android:layout\_marginEnd="20dp" android:hint="Password" app:endIconTint="@color/icon\_color" app:endIconDrawable="@drawable/ic\_baseline\_vpn\_key\_24" app:endIconMode="custom">

<com.google.android.material.textfield.TextInputEditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:inputType="textPassword" />

</com.google.android.material.textfield.TextInputLayout>

<TextView

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="right" android:layout\_marginTop="170dp" android:layout\_marginEnd="20dp" android:layout\_marginBottom="40dp" android:text="Forgot Password?" />

</com.google.android.material.card.MaterialCardView>

<androidx.constraintlayout.widget.ConstraintLayout android:elevation="25dp" app:layout\_constraintEnd\_toEndOf="@+id/cv\_login" app:layout\_constraintStart\_toStartOf="@+id/cv\_login" app:layout\_constraintTop\_toBottomOf="@+id/cv\_login" android:layout\_marginTop="-25dp" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content">

<Button

app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" android:id="@+id/btn\_login" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Login" />

</androidx.constraintlayout.widget.ConstraintLayout>

<TextView

android:id="@+id/textView" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Don't have account? " android:layout\_marginEnd="30dp" android:layout\_marginTop="50dp" app:layout\_constraintEnd\_toEndOf="@+id/cv\_login" app:layout\_constraintStart\_toStartOf="@+id/cv\_login" app:layout\_constraintTop\_toBottomOf="@+id/cv\_login" />

<TextView

android:id="@+id/tv\_signup" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="SIGN UP" android:textColor="#DB3D91" android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="@+id/textView" app:layout\_constraintStart\_toEndOf="@+id/textView" />

</androidx.constraintlayout.widget.ConstraintLayout>

</androidx.core.widget.NestedScrollView>

<com.google.android.material.bottomnavigation.BottomNavigationView android:id="@+id/bottomNavigationView" android:layout\_width="match\_parent" android:layout\_height="75dp" app:layout\_anchor="@+id/nestedScrollView" app:layout\_anchorGravity="bottom|center" app:menu="@menu/navigation\_menu" />

</androidx.coordinatorlayout.widget.CoordinatorLayout>

**activity\_registration.xml**

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

<androidx.coordinatorlayout.widget.CoordinatorLayout 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=".RegistrationActivity">

<com.google.android.material.appbar.AppBarLayout android:id="@+id/appBarLayout2" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:fitsSystemWindows="true">

<com.google.android.material.appbar.MaterialToolbar android:id="@+id/toolbar" android:layout\_width="match\_parent" android:layout\_height="?attr/actionBarSize" app:layout\_scrollFlags="scroll|enterAlways|snap" />

</com.google.android.material.appbar.AppBarLayout>

<androidx.core.widget.NestedScrollView android:id="@+id/nestedScrollView2" android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:layout\_marginBottom="50dp" app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior">

<LinearLayout

android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:orientation="vertical" app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior">

<ImageView

android:layout\_width="match\_parent" android:layout\_height="100dp" android:src="@drawable/guni\_logo" />

<com.google.android.material.card.MaterialCardView android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:layout\_marginStart="20dp" android:layout\_marginEnd="20dp" android:layout\_marginBottom="20dp" android:elevation="10dp" app:cardCornerRadius="15dp" app:cardElevation="20dp">

<LinearLayout

android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:orientation="vertical">

<com.google.android.material.textfield.TextInputLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginStart="20dp" android:layout\_marginTop="20dp" android:layout\_marginEnd="20dp"

android:hint="Use Full Name" app:endIconDrawable="@drawable/ic\_baseline\_person\_24" app:endIconMode="custom" app:endIconTint="@color/icon\_color">

<com.google.android.material.textfield.TextInputEditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" />

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginStart="20dp" android:layout\_marginTop="5dp" android:layout\_marginEnd="20dp" android:hint="Phone Number"

app:endIconDrawable="@drawable/ic\_baseline\_phone\_android\_24" app:endIconMode="custom" app:endIconTint="@color/icon\_color">

<com.google.android.material.textfield.TextInputEditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" />

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginStart="20dp" android:layout\_marginTop="5dp" android:layout\_marginEnd="20dp" android:hint="City"

app:endIconDrawable="@drawable/ic\_baseline\_location\_city\_24" app:endIconMode="custom" app:endIconTint="@color/icon\_color">

<com.google.android.material.textfield.TextInputEditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" />

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginStart="20dp" android:layout\_marginTop="5dp" android:layout\_marginEnd="20dp" android:hint="Email" app:endIconDrawable="@drawable/ic\_baseline\_email\_24" app:endIconMode="custom" app:endIconTint="@color/icon\_color">

<com.google.android.material.textfield.TextInputEditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:inputType="textEmailAddress" />

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginStart="20dp" android:layout\_marginTop="5dp" android:layout\_marginEnd="20dp" android:hint="Password" app:endIconDrawable="@drawable/ic\_baseline\_vpn\_key\_24" app:endIconMode="custom" app:endIconTint="@color/icon\_color">

<com.google.android.material.textfield.TextInputEditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:inputType="textPassword" />

</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginStart="20dp" android:layout\_marginTop="5dp" android:layout\_marginEnd="20dp" android:layout\_marginBottom="50dp" android:hint="Confirm Password" app:endIconDrawable="@drawable/ic\_baseline\_vpn\_key\_24" app:endIconMode="custom" app:endIconTint="@color/icon\_color">

<com.google.android.material.textfield.TextInputEditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:inputType="textPassword" />

</com.google.android.material.textfield.TextInputLayout>

</LinearLayout>

</com.google.android.material.card.MaterialCardView>

<LinearLayout

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center\_horizontal|bottom" android:layout\_marginTop="-45dp" android:elevation="20dp">

<Button

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Register" android:elevation="50dp" />

</LinearLayout>

<LinearLayout

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center\_horizontal" android:layout\_marginTop="20dp" android:orientation="horizontal">

<TextView

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Do you have account?" android:layout\_marginBottom="40dp" android:layout\_gravity="center\_horizontal"/>

<TextView

android:id="@+id/tv\_login" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="LOGIN" android:textColor="#DB3D91" android:textStyle="bold" android:layout\_marginStart="10dp"/>

</LinearLayout>

</LinearLayout>

</androidx.core.widget.NestedScrollView>

<com.google.android.material.bottomnavigation.BottomNavigationView android:id="@+id/bottomNavigationView" android:layout\_width="match\_parent" android:layout\_height="75dp"

android:layout\_gravity="bottom" app:menu="@menu/navigation\_menu" />

</androidx.coordinatorlayout.widget.CoordinatorLayout>

**LoginActivity.kt**

package com.example.madpractical3\_21012022030

import android.content.Intent

import androidx.appcompat.app.AppCompatActivity import android.os.Bundle

import com.example.madpractical3\_21012022030.databinding.ActivityLoginBinding

class LoginActivity : AppCompatActivity() {

private lateinit var binding: ActivityLoginBinding override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

**binding = ActivityLoginBinding.inflate(*layoutInflater*) setContentView(binding.*root*)**

setSupportActionBar(binding.toolbar) binding.bottomNavigationView.*selectedItemId* = R.id.*bottom\_nav\_login* binding.bottomNavigationView.setOnItemSelectedListener{it1->

**when(it1.*itemId*)**

{

**R.id.*bottom\_nav\_reg*->**

{

Intent(this,RegistrationActivity::class.*java*).*also* {startActivity(it)}

}

}

return@setOnItemSelectedListener true

}

binding.tvSignup.setOnClickListener{ Intent(this,RegistrationActivity::class.*java*).*apply* {

startActivity(this)

}

}

}

}

**RegistrationActivity.kt**

package com.example.madpractical3\_21012022030

import android.content.Intent

import androidx.appcompat.app.AppCompatActivity import android.os.Bundle

import com.example.madpractical3\_21012022030.databinding.ActivityRegistrationBinding

class RegistrationActivity : AppCompatActivity() {

private lateinit var binding: ActivityRegistrationBinding override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

binding = ActivityRegistrationBinding.inflate(*layoutInflater*) setContentView(binding.*root*)

setSupportActionBar(binding.toolbar) binding.bottomNavigationView.*selectedItemId* = R.id.*bottom\_nav\_reg* binding.bottomNavigationView.setOnItemSelectedListener{it1->

**when(it1.*itemId*)**

{

**R.id.*bottom\_nav\_login*->**

{

Intent(this,LoginActivity::class.*java*).*also* {startActivity(it)}

}

}

return@setOnItemSelectedListener true

}

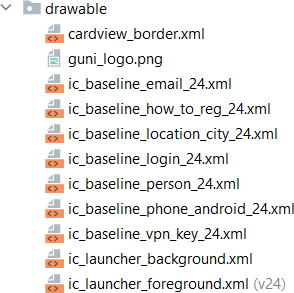
binding.tvLogin.setOnClickListener{ Intent(this,LoginActivity::class.*java*).*apply* {startActivity(this)}

}

}

}

**Resource:**



**Output:**

