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

Practical: 3



**AIM- Create following UI by using ConstraintLayout**

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Submitted By: AMIT GOSWAMI

Enrollment number: 21012021003



**Department of Computer Engineering/Information Technology**

**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">

<ImageView

android:id="@+id/imageView"

android:layout\_width="match\_parent"

android:layout\_height="200dp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:srcCompat="@drawable/guni\_pink\_logo" />

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

android:id="@+id/materialCardView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginHorizontal="20dp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@id/imageView"

app:cardElevation="20dp"

>

<androidx.constraintlayout.widget.ConstraintLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:padding="20dp">

<TextView

android:id="@+id/textView"

android:layout\_width="86dp"

android:layout\_height="28dp"

android:layout\_marginStart="15dp"

android:layout\_marginTop="20dp"

android:text="EmaiI Id"

android:textSize="20dp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<EditText

android:id="@+id/editTextTextEmailAddress"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="20dp"

android:layout\_marginTop="20dp"

android:ems="10"

android:inputType="textEmailAddress"

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

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

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/textView2Password"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="10dp"

android:layout\_marginTop="60dp"

android:text="Password"

android:textSize="20dp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView" />

<EditText

android:id="@+id/editTextTextPassword"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="24dp"

android:layout\_marginTop="40dp"

android:ems="10"

android:inputType="textPassword"

app:layout\_constraintStart\_toEndOf="@+id/textView2Password"

app:layout\_constraintTop\_toBottomOf="@+id/editTextTextEmailAddress" />

<Button

android:id="@+id/button2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Login"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.565"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView4" />

<TextView

android:id="@+id/textView4"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="10dp"

android:layout\_marginTop="40dp"

android:paddingBottom="50dp"

android:text="Forgot Password ?"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPassword" />

</androidx.constraintlayout.widget.ConstraintLayout>

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

<TextView

android:id="@+id/textView5"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="20dp"

android:layout\_marginTop="30dp"

android:paddingBottom="10dp"

android:text=" Don't have an Account"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/materialCardView" />

<Button

android:id="@+id/button3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="20dp"

android:background="#00FFFFFF"

android:text="Sign Up"

android:textColor="#E75480"

android:textStyle="bold"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.144"

app:layout\_constraintStart\_toEndOf="@+id/textView5"

app:layout\_constraintTop\_toBottomOf="@+id/materialCardView" />

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.kt**

package com.example.mad\_practical\_3\_21012021003

import androidx.appcompat.app.AppCompatActivity

import android.os.Bundle

class MainActivity : AppCompatActivity() {

override fun onCreate(savedInstanceState: Bundle?) {

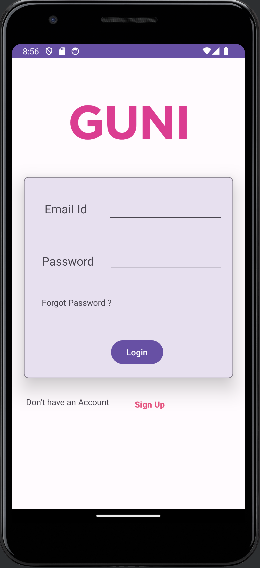
super.onCreate(savedInstanceState)

setContentView(R.layout.activity\_main)

}

}

**Output:**

[](https://user-images.githubusercontent.com/98880561/257397579-f49caee6-dc10-44d9-921d-4802e48ecbde.png)