[2CEIT5PE5: MOBILE APPLICATION DEVELOPMENT]

Practical: 3

AIM: Create following UI by using **ConstraintLayout**.

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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">

    <androidx.core.widget.NestedScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:background="@color/white">

        <androidx.constraintlayout.widget.ConstraintLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content">

            <ImageView
                android:id="@+id/image_logo"
                android:layout_width="match_parent"
                android:layout_height="130dp"
                android:src="@drawable/guni_pink_logo"
                app:layout_constraintEnd_toEndOf="parent"
                app:layout_constraintStart_toStartOf="parent"
                app:layout_constraintTop_toTopOf="parent" />

            <com.google.android.material.card.MaterialCardView
                android:id="@+id/cardview"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginStart="20dp"
                android:layout_marginEnd="20dp"
                app:cardCornerRadius="15dp"
                app:cardElevation="20dp"
                app:layout_constraintTop_toBottomOf="@+id/image_logo">

                <androidx.constraintlayout.widget.ConstraintLayout
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:background="@color/white"
                    android:paddingVertical="20dp">

                    <TextView
                        android:id="@+id/textviewemail"
                        android:layout_width="wrap_content"
                        android:layout_height="wrap_content"
                        android:text="Email Id"
                        android:textSize="18sp"
                        app:layout_constraintBaseline_toBaselineOf="@+id/edittexteamil"
```

```
      app:layout_constraintEnd_toStartOf="@+id/edittexteamil"
      app:layout_constraintStart_toStartOf="parent" />

  <EditText
    android:id="@+id/edittextpass"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPassword"
    android:textSize="18sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.428"
    app:layout_constraintStart_toEndOf="@+id/textviewpass"
    app:layout_constraintTop_toBottomOf="@+id/edittexteamil" />

  <TextView
    android:id="@+id/textviewpass"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Password"
    android:textSize="18sp"
    app:layout_constraintBaseline_toBaselineOf="@+id/edittextpass"
    app:layout_constraintEnd_toStartOf="@+id/edittexteamil"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textviewemail" />

  <TextView
    android:id="@+id/textview_forgotpwd"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_margin="20dp"
    android:layout_marginTop="15dp"
    android:padding="20dp"
    android:text="Forgot passord?"
    android:textSize="18sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.11"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@id/edittextpass" />

  <Button
    android:id="@+id/btn_login"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:paddingHorizontal="20dp"
    android:text="Login"
    android:textColor="#ffffff"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@id/textview_forgotpwd" />

  <EditText
```

```
            android:id="@+id/edittexteamil"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="20dp"
            android:ems="10"
            android:inputType="textPassword"
            android:textSize="18sp"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.0"
            app:layout_constraintStart_toEndOf="@+id/textviewemail"
            app:layout_constraintTop_toTopOf="parent" />
    </androidx.constraintlayout.widget.ConstraintLayout>
</com.google.android.material.card.MaterialCardView>

    <TextView
        android:id="@+id/singup_mes"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:paddingVertical="20dp"
        android:text="Don't have an account"
        android:textSize="18sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.11"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/cardview" />

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="@android:color/transparent"
        android:text="SING UP"
        android:textColor="#EE30A8"
        app:layout_constraintBaseline_toBaselineOf="@id/singup_mes"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@id/singup_mes" />
    </androidx.constraintlayout.widget.ConstraintLayout>
  </androidx.core.widget.NestedScrollView>
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.kt

```
package com.pavanpatel.myapplication_3
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)
    }
}
```

21012021075_Pavan Patel

- **OUTPUT:**

21012021075_Pavan Patel