

## **Android Development**

**CA – 1**

**Project topic – Instagram Login page**

**Name – Nova Gupta**

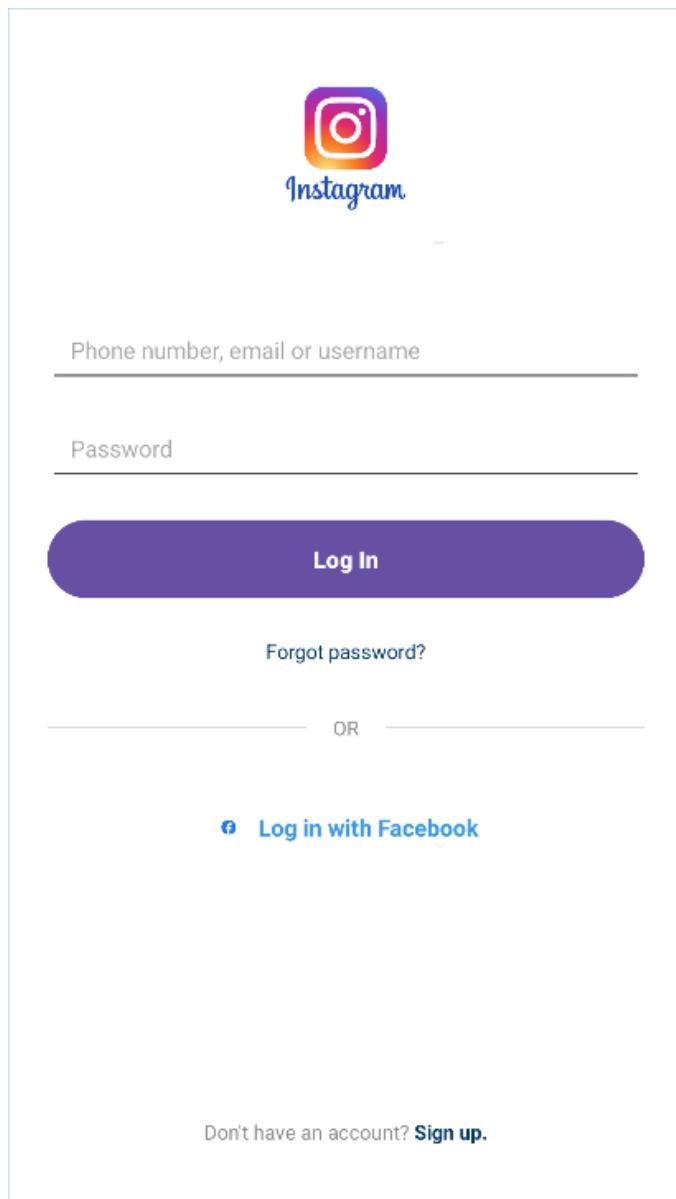
**Registration number – 12326332**

**Roll number – 05**

**Section – KO007**

**GitHub repository link - <https://github.com/Nova-Gupta/InstagramLinearLayout>**

**The UI looks like this:**



**This is the activity\_main.xml file code:**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:background="#FFFFFF"
    android:padding="24dp"
    android:gravity="center">

    <ImageView
        android:layout_width="200dp"
        android:layout_height="120dp"
        android:src="@drawable/ic_instagram_logo"
        android:contentDescription="Instagram Logo"
        android:layout_marginBottom="40dp"/>

    <EditText
        android:id="@+id/etUsername"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Phone number, email or username"
        android:inputType="textEmailAddress"
        android:padding="14dp"
        android:textSize="14sp"
        android:layout_marginBottom="12dp"/>

    <EditText
        android:id="@+id/etPassword"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Password"
        android:inputType="textPassword"
        android:padding="14dp"
        android:textSize="14sp"
        android:layout_marginBottom="16dp"/>

    <Button
        android:id="@+id/btnLogin"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Log In"
        android:textColor="#FFFFFF"
        android:textAllCaps="false"
        android:padding="14dp"
        android:textSize="14sp"
        android:textStyle="bold"
```

```
        android:layout_marginBottom="20dp"/>

    <TextView
        android:id="@+id/tvForgotPassword"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Forgot password?"
        android:textColor="#00376B"
        android:textSize="12sp"
        android:layout_marginBottom="30dp"/>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:gravity="center"
        android:layout_marginBottom="30dp">

        <View
            android:layout_width="0dp"
            android:layout_height="1dp"
            android:layout_weight="1"
            android:background="#DBDBDB"/>

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="OR"
            android:textColor="#8E8E8E"
            android:textSize="12sp"
            android:paddingStart="16dp"
            android:paddingEnd="16dp"/>

        <View
            android:layout_width="0dp"
            android:layout_height="1dp"
            android:layout_weight="1"
            android:background="#DBDBDB"/>
    </LinearLayout>

    <LinearLayout
        android:id="@+id/btnFacebookLogin"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:gravity="center"
        android:padding="12dp"
        android:layout_marginBottom="40dp">
```

```
<ImageView
    android:layout_width="20dp"
    android:layout_height="20dp"
    android:src="@drawable/ic_facebook"
    android:contentDescription="Facebook Icon"
    android:layout_marginEnd="8dp"/>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Log in with Facebook"
    android:textColor="#3797F0"
    android:textSize="14sp"
    android:textStyle="bold"/>
</LinearLayout>
<View
    android:layout_width="match_parent"
    android:layout_height="0dp"
    android:layout_weight="1"/>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:gravity="center"
    android:paddingTop="16dp"
    android:paddingBottom="16dp"
    android:background="#FFFFFF">

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Don't have an account? "
    android:textColor="#8E8E8E"
    android:textSize="12sp"/>

<TextView
    android:id="@+id/tvSignUp"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Sign up."
    android:textColor="#00376B"
    android:textSize="12sp"
    android:textStyle="bold"/>
</LinearLayout>

</LinearLayout>
```

**This is the MainActivity.kt file code:**

```
package com.example.instagramlinearLayout

import android.os.Bundle
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat
import android.widget.Button
import android.widget.EditText
import android.widget.Toast

class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val etUsername = findViewById<EditText>(R.id.etUsername)
        val etPassword = findViewById<EditText>(R.id.etPassword)
        val btnLogin = findViewById<Button>(R.id.btnLogin)

        btnLogin.setOnClickListener {
            val username = etUsername.text.toString().trim()
            val password = etPassword.text.toString().trim()

            if (username.isNotEmpty() && password.isNotEmpty()) {
                Toast.makeText(this, "Login Successful!", Toast.LENGTH_LONG).show()
            } else {
                Toast.makeText(this, "Please fill all fields", Toast.LENGTH_SHORT).show()
            }
        }
    }
}
```

The screenshot shows the Android Studio interface with the project 'InstagramLinearLayout' open. The code editor displays `MainActivity.kt` with the following code:

```
import android.widget.EditText
import android.widget.Toast

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val etUsername = findViewById<EditText>(R.id.etUsername)
        val etPassword = findViewById<EditText>(R.id.etPassword)
        val btnLogin = findViewById<Button>(R.id.btnLogin)

        btnLogin.setOnClickListener {
            val username = etUsername.text.toString().trim()
            val password = etPassword.text.toString().trim()

            if (username.isNotEmpty() && password.isNotEmpty()) {
                Toast.makeText(context, "Login Successful!", duration = Toast.LENGTH_SHORT).show()
            } else {
                Toast.makeText(context, "Please fill all fields", duration = Toast.LENGTH_SHORT).show()
            }
        }
    }
}
```

The preview window shows a login screen with the Instagram logo at the top. It has fields for 'Phone number, email or username' and 'Password', a 'Log In' button, and links for 'Forgot password?' and 'Log in with Facebook'. At the bottom, it says 'Don't have an account? Sign up.'

