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**Green University of Bangladesh**

**Department of Computer Science and Engineering (CSE)**

**Faculty of Sciences and Engineering**

**Semester: (Fall, Year:2024), B.Sc. in CSE (Day)**

**Lab Report NO 2**

**Course Title:Mobile Android Development Lab**

**Course Code:CSE-326 Section:D3**

**Lab Experiment Name:** **Design Login Page .**

**Student Details**

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**Submission Date : Due Oct 7 2024**

**Course Teacher’s Name : Tasnim Tayiba Zannat**

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| **Lab Report Status**  **Marks: ………………………………… Signature:.....................**  **Comments:.............................................. Date:..............................** |

**1. TITLE OF THE LAB REPORT EXPERIMENT**

* Implement validation process for user login.
* Design your login page to give a good outlook.

**2. OBJECTIVES/AIM**

* Understanding of XML
* Understanding about the android studio.
* Thinking about nice design of UI

**3. PROCEDURE / ANALYSIS / DESIGN [3 marks]**

This report analyzes the provided XML code for an Android login page layout, written in XML and intended for use in an Android application. The layout contains essential UI elements like TextView, EditText, and Button widgets, which are commonly used to build a functional login interface.

**4. IMPLEMENTATION**

**Code of XML:**

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

<LinearLayout

xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

xmlns:app="http://schemas.android.com/apk/res-auto"

android:id="@+id/main"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:gravity="center"

android:padding="24dp"

android:background="@color/lightGray"

tools:context=".MainActivity"

>

<!-- Title Text -->

<TextView

android:id="@+id/tvLogin"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Login"

android:textSize="32sp"

android:textStyle="bold"

android:textColor="@color/primary"

android:layout\_marginBottom="32dp"

/>

<!-- Username Input -->

<EditText

android:id="@+id/etUsername"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Username"

android:padding="16dp"

android:layout\_marginBottom="16dp"

android:inputType="text"

/>

<!-- Password Input -->

<EditText

android:id="@+id/etPassword"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Password"

android:padding="16dp"

android:background="@color/white"

android:layout\_marginBottom="24dp"

android:inputType="textPassword"

/>

<!-- Login Button -->

<Button

android:id="@+id/btnLogin"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Login"

android:textColor="@color/white"

android:backgroundTint="@color/primary"

android:padding="16dp"

android:layout\_marginBottom="16dp"

android:textAllCaps="false"

/>

<!-- Error Message (hidden by default) -->

<TextView

android:id="@+id/tvError"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

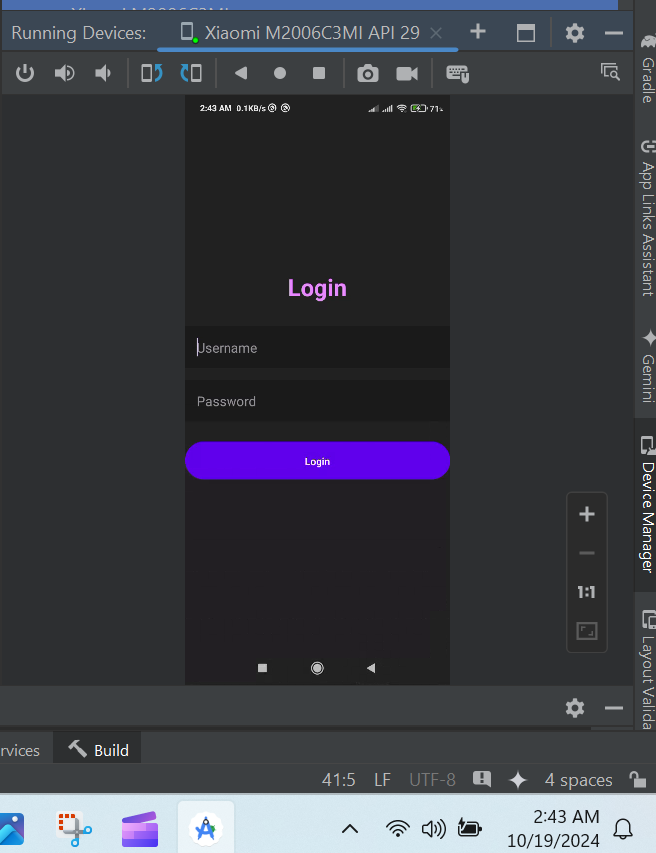
android:textColor="@color/red"

android:visibility="gone"

/>

</LinearLayout>

**5. TEST RESULT**



# Conclusion

The XML layout is cleanly structured and follows Android design principles. It includes basic login functionality, with future potential for adding additional UI/UX features, such as input validation and animations to improve the user experience.