**The State University of Zanzibar**

**Department of Computer Science and Information Technology**

**CS 2219 – Mobile Applications Design and Development**

**Code for Login system – Verifying Username and Password**

**2024/2025**

**By Dr Haji Ali**

**Part A: User Interface on Layout file XML Code.**

**Make sure to write this code in Layout file**

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

<LinearLayout 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"

android:orientation="vertical"

tools:context=".MainActivity">

<EditText

android:id = "@+id/username"

android:layout\_width = "wrap\_content"

android:layout\_height = "wrap\_content"

android:hint = "Enter Your Username"

android:focusable = "true"

android:textColorHighlight = "#ff7eff15"

android:textColorHint = "#ffff25e6"

android:layout\_marginTop = "10dp"

/>

<EditText

android:id = "@+id/password"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:inputType="textPassword"

android:hint = "Enter Your Password"

android:focusable = "true"

android:textColorHighlight = "#ff7eff15"

android:textColorHint = "#ffff25e6"

/>

<Button

android:id="@+id/login"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="login"

/>

</LinearLayout>

**Part B: User Interface on Layout file XML Code.**

**Make sure to write this code in Activity/Java file**

package com.example.myfirstapp2024;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

EditText username, password;

Button login;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

username = (EditText) findViewById(R.id.username);

password = (EditText) findViewById(R.id.password);

login = (Button) findViewById(R.id.login);

login.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if (username.getText().toString().equals("admin") &&

password.getText().toString().equals("12345")) {

Toast.makeText(this,"Welcome to the System!", Toast.LENGTH\_LONG).show();

}

else {

Toast.makeText(this, "Wrong Credentials!", Toast.LENGTH\_LONG).show();

}

}

});

}

}