**LOGIN FORM**

**XML FILE:**

**<?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:paddingLeft="16dp"**

**android:paddingRight="16dp">**

**<EditText**

**android:id="@+id/usr"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:hint="User Name" />**

**<EditText**

**android:id="@+id/pass"**

**android:layout\_width="match\_parent"**

**android:layout\_height="59dp"**

**android:ems="10"**

**android:hint="password"**

**android:inputType="textPassword"/>**

**<Button**

**android:id="@+id/button"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:text="LOGIN" />**

**</LinearLayout>**

**JAVA FILE:**

**package com.example.login;**

**import androidx.appcompat.app.AppCompatActivity;**

**import android.widget.EditText;**

**import android.widget.Button;**

**import android.view.View;**

**import android.widget.Toast;**

**import android.os.Bundle;**

**import java.util.Objects;**

**public class MainActivity extends AppCompatActivity {**

**EditText username,password;**

**Button btn;**

**@Override**

**protected void onCreate(Bundle savedInstanceState) {**

**super.onCreate(savedInstanceState);**

**setContentView(R.layout.*activity\_main*);**

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

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

**btn = (Button) findViewById(R.id.*button*);**

**btn.setOnClickListener(new View.OnClickListener(){**

**@Override**

**public void onClick(View v)**

**{**

**validate();**

**}**

**});**

**}**

**public void validate()**

**{**

**String name=username.getText().toString();**

**String pass=password.getText().toString();**

**String namePattern="[0-9!@#$%^&\*]";**

**int valid=1;**

**if(name.length()==0)**

**{**

**username.getText().clear();**

**username.requestFocus();**

**username.setError("Enter name ");**

**Toast.*makeText*(getApplicationContext(), "Enter valid name", Toast.*LENGTH\_SHORT*).show();**

**valid++;**

**}**

**if(name.matches(namePattern))**

**{**

**username.getText().clear();**

**username.requestFocus();**

**username.setError("Name contains illegal characters");**

**Toast.*makeText*(getApplicationContext(), "Enter valid name", Toast.*LENGTH\_SHORT*).show();**

**valid++;**

**}**

**if(password.length()==0)**

**{**

**password.requestFocus();**

**password.setError("Enter password");**

**valid++;**

**}**

**if(password.length()<5)**

**{**

**password.requestFocus();**

**password.setError("Enter 5 digit password");**

**valid++;**

**}**

**if(valid==1)**

**{**

**Toast.*makeText*(getApplicationContext(), "VALIDATION SUCESSFULL", Toast.*LENGTH\_SHORT*).show();**

**}**

**if(Objects.*equals*(username.getText().toString(), "admin")&&Objects.*equals*(password.getText().toString(),"admin"))**

**{**

**Toast.*makeText*(MainActivity.this,"You have Authenticated Successfully",Toast.*LENGTH\_LONG*).show();**

**}else**

**{**

**Toast.*makeText*(MainActivity.this,"Authentication Failed",Toast.*LENGTH\_LONG*).show();**

**}**

**}**

**}**