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PROG5121

POE Part 1

**Test Classes:**

**LoginTest:**

import org.junit.Test;

import static org.junit.Assert.\*;

public class LoginTest {

@Test

public void testCheckUserName() {

Login login = new Login();

assertTrue(login.checkUserName("user\_123"));

assertFalse(login.checkUserName("user"));

assertFalse(login.checkUserName("user\_with\_long\_name"));

assertFalse(login.checkUserName("userwithoutunderscore"));

}

@Test

public void testCheckPasswordComplexity() {

Login login = new Login();

assertTrue(login.checkPasswordComplexity("Password123!"));

assertFalse(login.checkPasswordComplexity("password"));

assertFalse(login.checkPasswordComplexity("Password"));

assertFalse(login.checkPasswordComplexity("password123"));

}

@Test

public void testLoginUser() {

Login login = new Login();

login.registerUser("John", "Doe", "user123", "Password123!");

assertTrue(login.loginUser("user123", "Password123!"));

assertFalse(login.loginUser("user123", "wrongPassword"));

}

@Test

public void testReturnLoginStatus() {

Login login = new Login();

login.registerUser("John", "Doe", "user123", "Password123!");

assertEquals("Welcome John Doe, it is great to see you again.", login.returnLoginStatus("user123", "Password123!"));

assertEquals("Username or password incorrect, please try again.", login.returnLoginStatus("user123", "wrongPassword"));

}

}

**LoginRegistrationTest:**

import org.junit.Test;

import static org.junit.Assert.\*;

public class LoginRegistrationTest {

@Test

public void testRegisterUser() {

Login login = new Login();

assertEquals("User registered successfully.", login.registerUser("John", "Doe", "user123", "Password123!"));

assertEquals("Username is not correctly formatted, please ensure that your username contains an underscore and is no more than 5 characters in length.", login.registerUser("John", "Doe", "user", "Password123!"));

assertEquals("Password is not correctly formatted, please ensure that the password contains at least 8 characters, a capital letter, a number, and a special character.", login.registerUser("John", "Doe", "user123", "password"));

}

}