Test driven development and Logging framework

SuperSet ID:6412063

Mockito

Exercise 3: Argument Matching

pom.xml

<dependencies>

<dependency>

<groupId>org.junit.jupiter</groupId>

<artifactId>junit-jupiter</artifactId>

<version>5.10.0</version>

<scope>test</scope>

</dependency>

<dependency>

<groupId>org.mockito</groupId>

<artifactId>mockito-core</artifactId>

<version>5.11.0</version>

<scope>test</scope>

</dependency>

</dependencies>

UserService.java

package com.example.service;

public interface UserService {

void sendEmail(String email, String message);

}

EmailClient.java

package com.example.service;

public class EmailClient {

private UserService userService;

public EmailClient(UserService userService) {

this.userService = userService;

}

public void notifyUser(String email) {

String message = "Welcome, " + email + "!";

System.out.println("Sending: " + message); // Print to console

userService.sendEmail(email, message);

}

}

EmailClientTest.java

package com.example.service;

import static org.mockito.Mockito.\*;

import static org.junit.jupiter.api.Assertions.\*;

import org.junit.jupiter.api.Test;

import org.mockito.ArgumentMatchers;

public class EmailClientTest {

@Test

public void testSendEmailWithArguments() {

UserService mockService = mock(UserService.class);

EmailClient client = new EmailClient(mockService);

String email = "dharshini@example.com";

client.notifyUser(email);

verify(mockService).sendEmail(eq(email), contains("Welcome"));

System.out.println("Test Passed: sendEmail() was called with expected arguments.");

}

}

Output:

A screenshot of a computer

Description automatically generated

Console output:

A black square with white border

Description automatically generated