Test driven development and Logging framework

SuperSet ID:6412063

Mockito

Exercise 2: Verifying Interactions

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>

ExternalApi.java

package com.example.api;

public interface ExternalApi {

String getData();

}

MyService.java

package com.example.api;

public class MyService {

private ExternalApi api;

public MyService(ExternalApi api) {

this.api = api;

}

public String fetchData() {

String data = api.getData();

System.out.println("Inside fetchData(): " + data); // Print to console

return data;

}

}

MyServiceTest.java

package com.example.api;

import static org.mockito.Mockito.\*;

import org.junit.jupiter.api.Test;

import org.mockito.Mockito;

public class MyServiceTest {

@Test

public void testVerifyInteraction() {

ExternalApi mockApi = Mockito.mock(ExternalApi.class);

when(mockApi.getData()).thenReturn("Mocked API Response");

MyService service = new MyService(mockApi);

String result = service.fetchData();

verify(mockApi).getData();

System.out.println("Test Passed: getData() was called successfully!");

System.out.println("Result from fetchData(): " + result);

}

}

Console output

A black square with white text

Description automatically generated

Output:

A screenshot of a computer

Description automatically generated