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| **3. Mockito exercises** | **Exercise 2: Verifying Interactions** |

**ExternalApi.java:**

package com.example;

public interface ExternalApi {

void getData();

}

**2. MyService.java:**

package com.example;

public class MyService {

private ExternalApi api;

public MyService(ExternalApi api) {

this.api = api;

}

public void fetchData() {

api.getData();

}

}

**3. MyServiceTest.java:**

package com.example;

import org.junit.jupiter.api.Test;

import static org.mockito.Mockito.\*;

import org.mockito.Mockito;

public class MyServiceTest {

@Test

public void testVerifyInteraction() {

// Step 1: Create mock object

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

// Step 2: Pass mock to service and call method

MyService service = new MyService(mockApi);

service.fetchData();

// Step 3: Verify the interaction

verify(mockApi).getData();

}

}

**pom.xml (JUnit 5 + Mockito):**

<project xmlns="http://maven.apache.org/POM/4.0.0"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>com.example</groupId>

<artifactId>mockito-demo</artifactId>

<version>1.0</version>

<dependencies>

<!-- JUnit 5 -->

<dependency>

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

<artifactId>junit-jupiter</artifactId>

<version>5.10.0</version>

<scope>test</scope>

</dependency>

<!-- Mockito -->

<dependency>

<groupId>org.mockito</groupId>

<artifactId>mockito-core</artifactId>

<version>5.11.0</version>

<scope>test</scope>

</dependency>

</dependencies>

<build>

<plugins>

<!-- Java compiler -->

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-compiler-plugin</artifactId>

<version>3.11.0</version>

<configuration>

<source>11</source>

<target>11</target>

</configuration>

</plugin>

<!-- Run JUnit 5 tests -->

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-surefire-plugin</artifactId>

<version>3.2.5</version>

</plugin>

</plugins>

</build>

</project>

**OUTPUT:**

A screenshot of a computer

AI-generated content may be incorrect.