Mocking and Stubbing

1. Create a mock object for the external API.

MyMockTestProject/

├── pom.xml

└── src

├── main

│ └── java

│ └── com

│ └── example

│ ├── ExternalApi.java

│ └── MyService.java

└── test

└── java

└── com

└── example

└── MyServiceTest.java

MyServiceTest.java

package com.example;

import org.junit.jupiter.api.Test;

import static org.mockito.Mockito.\*;

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

public class MyServiceTest {

@Test

public void testExternalApi() {

ExternalApi mockApi = mock(ExternalApi.class);

when(mockApi.getData()).thenReturn("Mock Data");

MyService service = new MyService(mockApi);

String result = service.fetchData();

assertEquals("Mock Data", result);

}

}

ExternalApi.java

package com.example;

public interface ExternalApi {

String getData();

}

MyService.java

package com.example;

public class MyService {

private ExternalApi api;

public MyService(ExternalApi api) {

this.api = api;

}

public String fetchData() {

return api.getData();

}

}

**Run the Test**

* Right-click on MyServiceTest.java → **Run 'MyServiceTest'**

**OUTPUT**

