A close-up of a logo

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**Using WireMock to Create and Validate a Stubbed Change Request**

**Objective:** Use WireMock to simulate a change request endpoint and validate responses in a test environment.

**Prerequisites:**

* Java installed on your machine
* Maven installed on your machine
* WireMock JAR file downloaded

**Steps:**

1. **Download and Install WireMock**
   * Download the standalone WireMock JAR from WireMock Download and Installation.
   * Run WireMock using the command:

**java -jar wiremock-standalone-3.5.4.jar**

1. **Add the WireMock Dependency**
   * Add the WireMock dependency in your pom.xml:

<dependency>

<groupId>com.github.tomakehurst</groupId>

<artifactId>wiremock</artifactId>

<version>3.0.1</version>

<scope>test</scope>

</dependency>

1. **Classroom Session:**
   * **Create a Stub for Change Request**
     + Ensure WireMock server is running.
     + Define a stub in your test class to mock the change request endpoint.
   * **Execute the Create Change Request**
     + Implement a test class to interact with the WireMock stub.
     + Send a POST request to the stub and verify the response code.

**Example (pseudo-code):**

java

Copy code

// Pseudo-code example for creating a WireMock stub and testing a change request

@BeforeMethod

public void createStub() {

// Define WireMock stub for POST request to '/api/now/table/incident'

WireMock.stubFor(WireMock.post("/api/now/table/incident")

.willReturn(WireMock.aResponse()

.withStatus(201)

.withBody("{\r\n"

+ "\"short\_description\": \"Create using Postman\", \r\n"

+ "\"description\": \"Create Laptop charging problem\"\r\n"

+ "}")

));

}

@Test

public void testChangeRequest() {

// Set base URI to WireMock server

RestAssured.baseURI = "http://localhost:8080/api/now/table";

// Prepare request with JSON body

RequestSpecification request = RestAssured.given()

.contentType("application/json")

.body("{\r\n"

+ "\"short\_description\": \"Create using RA Snow\", \r\n"

+ "\"description\": \"Create Laptop charging problem using RA\"\r\n"

+ "}");

// Send POST request to '/incident' endpoint

Response response = request.post("/incident");

// Validate and print response

response.prettyPrint();

}

**Summary:**

* Download and run WireMock standalone JAR.
* Add WireMock as a test dependency in your Maven project.
* Use WireMock to create stubs for simulating API responses.
* Implement tests to validate interactions with WireMock stubs.