A close-up of a logo

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### Implementing Change Request Creation and Validation Using Rest Assured with Cucumber

### Classroom Session

1. **Create a Maven Project**
2. **Create Necessary Packages**
3. **Add the Dependencies in pom.xml**

**Create Necessary Packages**

* + **features**: Contains all the feature files
  + **steps**: Implementation for the steps in feature files
  + **runner**: Executes the test cases

#### Implementation Steps:

1. **Create a Maven Project**
2. **Add the Dependencies**

Add the following dependencies in your pom.xml file:

<dependency>

<groupId>io.rest-assured</groupId>

<artifactId>rest-assured</artifactId>

<version>5.4.0</version>

<scope>test</scope>

</dependency>

<dependency>

<groupId>org.testng</groupId>

<artifactId>testng</artifactId>

<version>7.4.0</version>

<scope>test</scope>

</dependency>

<dependency>

<groupId>io.cucumber</groupId>

<artifactId>cucumber-java</artifactId>

<version>7.17.0</version>

</dependency>

<dependency>

<groupId>io.cucumber</groupId>

<artifactId>cucumber-testng</artifactId>

<version>7.17.0</version>

</dependency>

### Create and Validate Change Request in ServiceNow Using Rest Assured and Cucumber

#### Learning Objective

The objective of this session is to learn how to create a change request in ServiceNow and validate the status code using Rest Assured with Cucumber.

#### Expected Completion Time

* **Best Case**: 30 minutes
* **Average Case**: 40 minutes

#### Implementation Details

1. **Create a Feature File**

Create a feature file under the features package, e.g., create\_change\_request.feature:

Feature: Create and validate change request

Scenario: Create a change request and validate the status code

Given Set the Endpoint

When Set the Auth

Then # validate the response code and the response body

//implement your code

1. **Create Step Definitions**

Create a step definition file under the steps package, e.g., ChangeRequestSteps.java:

(When you run the feature file, the step definitions will be automatically generated in the console.)

public class ChangeRequestSteps {

@Given("I have the ServiceNow API endpoint and credentials")

public void setUp() {

// add the steps to implement Endpoint and the credentials

}

@When("Set the Auth")

public void createChangeRequest() {

//Set the Authentication steps

}

@Then("I should receive a {int} status code")

public void validateStatusCode(int statusCode) {

assertEquals(statusCode, response.getStatusCode());

}

@Then("the response should contain the change request details")

public void validateResponseBody() {

response.then().body("result.short\_description", equalTo("Create incident via Rest Assured"));

response.then().body("result.description", equalTo("My first incident"));

}

}

1. **Create Runner Class**

Create a runner class under the runner package, e.g., TestRunner.java:

@CucumberOptions(

features = "src/test/resources/features/ create\_change\_request.feature ",

glue = "steps",

)

public class TestRunner extends AbstractTestNGCucumberTests {

}

1. **Execution**

Run the TestRunner.java as a TestNG test. This will execute the Cucumber feature and step definitions, creating a change request in ServiceNow and validating the status code.

### Expected Outcome

Upon completion, you should be able to:

* Understand how to use Rest Assured with Cucumber to interact with ServiceNow APIs.
* Create a change request in ServiceNow via API.
* Validate the response status code and the response body to ensure the successful creation of the change request.

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