Phase 3 Project

Problem Statement:

1) Open AWS

2) Create the EC2 Instance and connect to that

3) Install

Java

Maven

Git

4) Clone the Repo https://github.com/onlyfullstack/rest-assured-tutorial.git

5) cd rest-assured-tutorial

6) mvn spring-boot:run

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API Chaining using Rest Assured and Maven Project

1) Get All Employee

2) Create Employee

3) Update the Employee

4) Delete that Employee

5) Get Deleted Employee

**Git repository:** https://github.com/BhumikaDureja/Phase3Project.git

EC2 instance created

Graphical user interface, text, application, email

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Graphical user interface, application

Description automatically generated

EC2 instance up & running

Text

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Java, maven, git installation complete

Commands used:

To install java on AWS server

sudo yum install java-1.8.0

To verify java version

java -version

To install maven on AWS server

sudo yum install maven -y

To verify maven version

mvn - v

To install git on AWS server

sudo yum install git -y

Clone Git

git clone https://github.com/onlyfullstack/rest-assured-tutorial.git

cd rest-assured-tutorial

mvn spring-boot:run

Text

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A picture containing text

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A picture containing graphical user interface

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A picture containing background pattern

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http://54.237.119.44:8088/employees

Graphical user interface, application

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**Project Structure and code screenshots**

Graphical user interface, text, application

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Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

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Graphical user interface, text, application

Description automatically generated

**Console Output**

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Graphical user interface, text, application, email

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**Source Code:**

**package** apiChainingEmployee;

**import** org.json.JSONObject;

**import** org.testng.Assert;

**import** org.testng.annotations.Test;

**import** io.restassured.RestAssured;

**import** io.restassured.http.ContentType;

**import** io.restassured.path.json.JsonPath;

**import** io.restassured.response.Response;

**import** io.restassured.specification.RequestSpecification;

**public** **class** EndToEndEmployeeTest {

Response response;

String BaseURI = "http://54.237.119.44:8088/employees" ;

@Test

**public** **void** test1() {

response = GetMethodAll();

Assert.*assertEquals*(response.getStatusCode(), 200);

response = PostMethod("Samuel", "Doctor", 2000,"samuel@abc.com" );

Assert.*assertEquals*(response.getStatusCode(), 201);

JsonPath jpath = response.jsonPath();

**int** EmployeeID = jpath.get("id");

System.***out***.println("Employee id : "+EmployeeID);

response = PutMethod(EmployeeID, "Samuel", "Dureja", 2000,"samuel@abc.com");

Assert.*assertEquals*(response.getStatusCode(), 200);

jpath = response.jsonPath();

Assert.*assertEquals*(jpath.get("lastName"), "Dureja");

response = DeleteMethod(EmployeeID);

Assert.*assertEquals*(response.getStatusCode(),200);

String ResponseBody = response.getBody().asString();

Assert.*assertEquals*(ResponseBody, "");

response = GetMethod(EmployeeID);

Assert.*assertEquals*(response.getStatusCode(),400);

}

**public** Response GetMethodAll() {

RestAssured.*baseURI* = BaseURI ;

RequestSpecification request = RestAssured.*given*();

Response response = request.get();

**return** response;

}

**public** Response PostMethod(String firstName, String lastName, **int** salary, String email) {

RestAssured.*baseURI* = BaseURI ;

JSONObject jobj = **new** JSONObject();

jobj.put("firstName", firstName);

jobj.put("lastName", lastName);

jobj.put("salary", salary);

jobj.put("email", email);

RequestSpecification request = RestAssured.*given*();

Response response = request.contentType(ContentType.***JSON***)

.accept(ContentType.***JSON***)

.body(jobj.toString())

.post();

**return** response;

}

**public** Response PutMethod(**int** EmpID, String firstName, String lastName, **int** salary, String email) {

RestAssured.*baseURI* = BaseURI ;

JSONObject jobj = **new** JSONObject();

jobj.put("firstName", firstName);

jobj.put("lastName", lastName);

jobj.put("salary", salary);

jobj.put("email", email);

RequestSpecification request = RestAssured.*given*();

Response response = request.contentType(ContentType.***JSON***)

.accept(ContentType.***JSON***)

.body(jobj.toString())

.put("/" + EmpID);

**return** response;

}

**public** Response DeleteMethod(**int** EmpID) {

RestAssured.*baseURI* = BaseURI ;

RequestSpecification request = RestAssured.*given*();

Response response = request.delete("/" +EmpID);

**return** response;

}

**public** Response GetMethod(**int** EmpID) {

RestAssured.*baseURI* = BaseURI ;

RequestSpecification request = RestAssured.*given*();

Response response = request.get("/" +EmpID);

**return** response;

}

}

**Pom.xml**

<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.simplilearn</groupId>

<artifactId>Phase3Project</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>jar</packaging>

<name>Phase3Project</name>

<url>http://maven.apache.org</url>

<properties>

<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

</properties>

<dependencies>

<dependency>

<groupId>org.testng</groupId>

<artifactId>testng</artifactId>

<version>6.14.3</version>

</dependency>

<!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured -->

<dependency>

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

<artifactId>rest-assured</artifactId>

<version>4.3.1</version>

</dependency>

<dependency>

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

<artifactId>json-path</artifactId>

<version>4.3.1</version>

</dependency>

<dependency>

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

<artifactId>json-schema-validator</artifactId>

<version>4.3.1</version>

</dependency>

<!-- https://mvnrepository.com/artifact/org.json/json -->

<dependency>

<groupId>org.json</groupId>

<artifactId>json</artifactId>

<version>20210307</version>

</dependency>

</dependencies>

</project>

Graphical user interface, text, application, email

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Graphical user interface, text, application, email

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