

Source Code for CRUD Operations Project:

POM.xml :

```
<?xml version="1.0" encoding="UTF-8"?>

<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.restassured</groupId>
  <artifactId>CRUD</artifactId>
  <version>0.0.1-SNAPSHOT</version>

  <name>CRUD</name>
  <!-- FIXME change it to the project's website -->
  <url>http://www.example.com</url>

  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <maven.compiler.source>1.7</maven.compiler.source>
    <maven.compiler.target>1.7</maven.compiler.target>
  </properties>

  <dependencies>

    <!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java -->
    <dependency>
      <groupId>org.seleniumhq.selenium</groupId>
      <artifactId>selenium-java</artifactId>
      <version>3.141.59</version>
    </dependency>

    <dependency>
      <groupId>com.aventstack</groupId>
      <artifactId>extentreports</artifactId>
      <version>3.1.5</version>
    </dependency>

    <!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured -->
    <dependency>
      <groupId>io.rest-assured</groupId>
      <artifactId>rest-assured</artifactId>
      <version>3.3.0</version>
    </dependency>
```

```

<!-- https://mvnrepository.com/artifact/org.testng/testng -->
<dependency>
  <groupId>org.testng</groupId>
  <artifactId>testng</artifactId>
  <version>6.14.3</version>
  <scope>test</scope>
</dependency>

simple -->
<!-- https://mvnrepository.com/artifact/com.googlecode.json-simple/json-
simple -->
<dependency>
  <groupId>com.googlecode.json-simple</groupId>
  <artifactId>json-simple</artifactId>
  <version>1.1.1</version>
</dependency>

  <dependency>
    <groupId>org.hamcrest</groupId>
    <artifactId>hamcrest-all</artifactId>
    <version>1.3</version>
    <scope>test</scope>
  </dependency>

<dependency>
  <groupId>org.mockito</groupId>
  <artifactId>mockito-all</artifactId>
  <version>1.9.5</version>
  <scope>test</scope>
</dependency>

<dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <version>4.11</version>
  <scope>test</scope>
</dependency>

  <!-- https://mvnrepository.com/artifact/org.apache.logging.log4j/log4j-core --
>
  <dependency>
    <groupId>org.apache.logging.log4j</groupId>
    <artifactId>log4j-core</artifactId>
    <version>2.12.1</version>
  </dependency>

  <!-- https://mvnrepository.com/artifact/io.rest-assured/json-schema-validator -
->
  <dependency>
    <groupId>io.rest-assured</groupId>
    <artifactId>json-schema-validator</artifactId>
    <version>4.1.2</version>

```

```

</dependency>

<!-- https://mvnrepository.com/artifact/io.rest-assured/json-path -->
<dependency>
    <groupId>io.rest-assured</groupId>
    <artifactId>json-path</artifactId>
    <version>4.1.1</version>

</dependency>

<!-- https://mvnrepository.com/artifact/org.hamcrest/java-hamcrest -->
<dependency>
    <groupId>org.hamcrest</groupId>
    <artifactId>java-hamcrest</artifactId>
    <version>2.0.0.0</version>
    <scope>test</scope>
</dependency>

<!-- https://mvnrepository.com/artifact/org.hamcrest/hamcrest-core -->
<dependency>
    <groupId>org.hamcrest</groupId>
    <artifactId>hamcrest-core</artifactId>
    <version>2.2-rc1</version>
    <scope>test</scope>
</dependency>

<!-- https://mvnrepository.com/artifact/org.hamcrest/hamcrest-library -->
<dependency>
    <groupId>org.hamcrest</groupId>
    <artifactId>hamcrest-library</artifactId>
    <version>2.2-rc1</version>
    <scope>test</scope>
</dependency>

<!-- https://mvnrepository.com/artifact/io.rest-assured/xml-path -->
<dependency>
    <groupId>io.rest-assured</groupId>
    <artifactId>xml-path</artifactId>
    <version>3.0.0</version>
</dependency>

<!-- https://mvnrepository.com/artifact/log4j/log4j -->
<dependency>
    <groupId>log4j</groupId>
    <artifactId>log4j</artifactId>
    <version>1.2.17</version>
</dependency>

    <dependency>
    <groupId>org.apache.logging.log4j</groupId>
    <artifactId>log4j-api</artifactId>
    <version>2.11.1</version>
</dependency>

```

```

        <dependency>
            <groupId>org.apache.logging.log4j</groupId>
            <artifactId>log4j-core</artifactId>
            <version>2.11.1</version>
        </dependency>

        <dependency>
            <groupId>org.apache.logging.log4j</groupId>
            <artifactId>log4j-1.2-api</artifactId>
            <version>2.11.1</version>
        </dependency>

<!-- https://mvnrepository.com/artifact/javax.xml.bind/jaxb-api -->
<dependency>
    <groupId>javax.xml.bind</groupId>
    <artifactId>jaxb-api</artifactId>
    <version>2.4.0-b180830.0359</version>
</dependency>

</dependencies>

<build>
    <pluginManagement><!-- lock down plugins versions to avoid using Maven defaults (may
be moved to parent pom) -->
        <plugins>
            <!-- clean lifecycle, see https://maven.apache.org/ref/current/maven-
core/lifecycles.html#clean_Lifecycle -->
            <plugin>
                <artifactId>maven-clean-plugin</artifactId>
                <version>3.1.0</version>
            </plugin>
            <!-- default lifecycle, jar packaging: see https://maven.apache.org/ref/current/maven-
core/default-bindings.html#Plugin_bindings_for_jar_packaging -->
            <plugin>
                <artifactId>maven-resources-plugin</artifactId>
                <version>3.0.2</version>
            </plugin>
            <plugin>
                <artifactId>maven-compiler-plugin</artifactId>
                <version>3.8.0</version>
            </plugin>
            <plugin>
                <artifactId>maven-surefire-plugin</artifactId>
                <version>2.22.1</version>
            </plugin>
            <plugin>
                <artifactId>maven-jar-plugin</artifactId>
                <version>3.0.2</version>
            </plugin>

```

```

<plugin>
  <artifactId>maven-install-plugin</artifactId>
  <version>2.5.2</version>
</plugin>
<plugin>
  <artifactId>maven-deploy-plugin</artifactId>
  <version>2.8.2</version>
</plugin>
<!-- site lifecycle, see https://maven.apache.org/ref/current/maven-
core/lifecycles.html#site_Lifecycle -->
<plugin>
  <artifactId>maven-site-plugin</artifactId>
  <version>3.7.1</version>
</plugin>
<plugin>
  <artifactId>maven-project-info-reports-plugin</artifactId>
  <version>3.0.0</version>
</plugin>
</plugins>
</pluginManagement>
</build>
</project>

```

Testng.xml:

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="Suite">
  <test thread-count="5" name="Test">
    <classes>
      <class name="com.restAssured.Crud.TestBase"/>
      <class name="com.restAssured.Crud.POSTRequest"/>
      <class name="com.restAssured.Crud.GETRequest"/>
    </classes>
  </test> <!-- Test -->
</suite> <!-- Suite -->

```

Log4j.properties:

```
log4j.rootLogger=ERROR,stdout
log4j.logger.com.endeca=INFO
log4j.logger.LogDemo=DEBUG, dest1
# Logger for crawl metrics
log4j.logger.com.endeca.itl.web.metrics=INFO

log4j.appender.stdout=org.apache.log4j.ConsoleAppender
log4j.appender.stdout.layout=org.apache.log4j.PatternLayout
log4j.appender.stdout.layout.ConversionPattern=%p\t%d{ISO8601 }\t%r\t%c\t[%t]\t%m%n
```

TestBase.java:

```
package com.restAssured.Crud;

import org.apache.log4j.Level;
import org.apache.log4j.Logger;
import org.apache.log4j.PropertyConfigurator;
import org.testng.annotations.BeforeClass;

import io.restassured.response.Response;
import io.restassured.specification.RequestSpecification;

public class TestBase {

    public static Response response;
    public static RequestSpecification httpRequest;

    public Logger logger;

    @BeforeClass
    public void setUp() {
        logger = Logger.getLogger("LogDemo");
        PropertyConfigurator.configure("log4j.properties");
        logger.setLevel(Level.DEBUG);
    }
}
```

GETRequest.java:

```
package com.restAssured.Crud;  
import org.testng.annotations.Test;  
import io.restassured.RestAssured;  
  
public class GETRequest extends TestBase {  
    @Test  
    public void verifyAllUsers() {  
        RestAssured  
            .when()  
                .get("https://reqres.in/api/users?page=2")  
            .then()  
                .assertThat()  
                    .statusCode(200)  
            .and()  
                .log().all();  
        logger.info("Got All Users Data");  
    }  
}
```

POSTRequest.java:

```
package com.restAssured.Crud;  
import java.util.HashMap;  
import org.testng.annotations.BeforeMethod;  
import org.testng.annotations.Test;  
import io.restassured.RestAssured;  
public class POSTRequest extends TestBase {  
    public static HashMap<String, String> map = new HashMap<String, String>();  
    @BeforeMethod
```

```

public void createData() {
    map.put("name", "Venkata Sai Swabhanu");
    map.put("Job", "Software Test Engineer Apprentice");
    logger.info("Payload Ready");

    RestAssured.baseURI="https://reqres.in";
    RestAssured.basePath="/api/users";
    logger.info("URL Specified");
}

@Test
public void createNewUser() {
    logger.info("Inside POST Method");

    RestAssured
        .given()
            .contentType("application/json")
            .body(map)
        .when()
            .post()
        .then()
            .assertThat()
                .statusCode(201)
            .and()
                .log().all();
    logger.info("Response Code Verified and New User added");
}
}

```