Rest Assured

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Rest Assured

- REST Assured is a Java library.

- It is used to test RESTful APIs.

- Allows for writing readable, maintainable tests.

Why Use REST Assured?

- Simplifies interaction with REST APIs.

- Supports HTTP methods (GET, POST, PUT, PATCH, DELETE).

- Integrates well with testing frameworks (JUnit, TestNG).

- It supports BDD framework

Add Dependency

Link: Maven Repository

```xml
1  <dependency>
2      <groupId>io.rest-assured</groupId>
3      <artifactId>rest-assured</artifactId>
4      <version>5.5.0</version>
5      <scope>test</scope>
6  </dependency>
```

Basic Code Example

```java
class RestAssuredExample {

    @Test
    public void testGet() {
        Response response = RestAssured.get("https://reqres.in/api/users?page=2");

        System.out.println(response.getStatusCode());
        System.out.println(response.getStatusLine());

        System.out.println(response.getBody().asString());
        System.out.println(response.getHeader("Content-Type"));
        System.out.println(response.getTime());

        int statusCode = response.getStatusCode();
        Assert.assertEquals(statusCode, 200);
    }
}
```

REST Assured Code Example 2

```java
import static io.restassured.RestAssured.*;
import static org.hamcrest.Matchers.*;

class RestAssuredExample2 {

    @Test
    public void test2() {
        get("https://reqres.in/api/users?page=2")
                .then()
                .statusCode(200)
                .body("data[1].id", equalTo(8))
                .body("data.first_name", hasItem("Byron"));

    }
}
```

REST Assured Code Example 3

```java
class RestAssuredExample3 {
    @Test
    public void testPost() {
        baseURI = "https://reqres.in/api/";
        given()
                .header("Content-Type", "application/json")
                .body("{\n" +
                        "    \"name\": \"mahmud\",\n" +
                        "    \"job\": \"instructor\"\n" +
                        "}")
                .when()
                .post("users")
                .then()
                .statusCode(201)
                .body("name", equalTo("mahmud"))
                .body("job", equalTo("instructor"));
    }
}
```

Thank you ❤️

qa-june-2024-automation-with-java-slides