



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](#)

```
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

```
1  class RestAssuredExample {  
2  
3      @Test  
4      public void testGet() {  
5          Response response = RestAssured.get("https://reqres.in/api/users?page=2");  
6  
7          System.out.println(response.getStatusCode());  
8          System.out.println(response.getStatusLine());  
9  
10         System.out.println(response.getBody().asString());  
11         System.out.println(response.getHeader("Content-Type"));  
12         System.out.println(response.getTime());  
13  
14         int statusCode = response.getStatusCode();  
15         Assert.assertEquals(statusCode, 200);  
16     }  
17 }
```

REST Assured Code Example 2

```
1  import static io.restassured.RestAssured.*;
2  import static org.hamcrest.Matchers.*;
3
4  class RestAssuredExample2 {
5
6      @Test
7      public void test2() {
8          get("https://reqres.in/api/users?page=2")
9              .then()
10             .statusCode(200)
11             .body("data[1].id", equalTo(8))
12             .body("data.first_name", hasItem("Byron"));
13
14     }
15 }
```

REST Assured Code Example 3

```
1  class RestAssuredExample3 {
2      @Test
3      public void testPost() {
4          baseURI = "https://reqres.in/api/";
5          given()
6              .header("Content-Type", "application/json")
7              .body("{\n" +
8                  "    \"name\": \"mahmud\",\n" +
9                  "    \"job\": \"instructor\"\n" +
10                 "}")
11         .when()
12         .post("users")
13         .then()
14         .statusCode(201)
15         .body("name", equalTo("mahmud"))
16         .body("job", equalTo("instructor")));
17     }
18 }
```

Create a custom JSON Object

Add Dependency

```
1  <dependency>
2      <groupId>com.googlecode.json-simple</groupId>
3      <artifactId>json-simple</artifactId>
4      <version>1.1.1</version>
5  </dependency>
```

Code Example

```
1  JSONObject request = new JSONObject();
2  request.put("name", "mahmud");
3  request.put("job", "instructor");
4  System.out.println(request.toJSONString());
```

Resources

- [Rest Assured Wiki](#)
- [JSONPath Finder](#)
- [JSONPath](#)

Thank you ❤

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