

An aerial photograph showing a dense forest of trees with green and brown foliage. A narrow strip of sandy beach separates the forest from a calm body of water. The water is dark green and reflects the surrounding environment. The text "Rest Assured" is overlaid in the center of the image.

Rest Assured

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Agenda

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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          baseUrl = "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  }
```


Thank you 

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