

REST Assured PUT and DELETE Requests

♦ PUT and DELETE Requests in Web Development (HTTP + Examples)

In HTTP, **PUT** and **DELETE** are two of the most common methods used in **RESTful APIs** to modify or remove resources on a server.

✓ PUT Request

♦ Purpose:

- Used to **update** a resource or **create** a resource if it doesn't exist (depending on implementation).
- It is **idempotent**, meaning calling it multiple times with the same data results in the same state.

♦ Syntax:

```
http

PUT /users/123 HTTP/1.1
Host: example.com
Content-Type: application/json

{
  "name": "John Doe",
  "email": "john@example.com"
}
```

♦ Example in Java (using RestAssured):

```
java

given()
    .header("Content-Type", "application/json")
    .body("{ \"name\": \"John\", \"email\": \"john@example.com\" }")
.when()
    .put("https://example.com/users/123")
.then()
    .statusCode(200);
```

✗ DELETE Request

♦ Purpose:

- Used to **delete** a resource.
- It is also **idempotent** – deleting the same resource multiple times results in the same state.

♦ Syntax:

```
http
```



```
DELETE /users/123 HTTP/1.1
Host: example.com
```

♦ Example in Java (using RestAssured):

```
java

given()
.when()
.delete("https://example.com/users/123")
.then()
.statusCode(200); // or 204 No Content
```

Difference Between PUT and POST:

Method	Use	Idempotent?	Resource Location
PUT	Create or Update existing resource	 Yes	Specified in URL (/users/123)
POST	Create new resource	 No	Usually auto-generated by server

Would you like a **mini-project or hands-on lab** for PUT/DELETE using Postman, Java, or Python?

To **validate** whether a resource was successfully **updated (PUT)** or **deleted (DELETE)**, you typically verify two things:

✓ 1. Validating PUT (Update)

♦ HTTP Status Code:

- **200 OK** – Resource updated.
- **201 Created** – If PUT created a new resource.
- **204 No Content** – Update successful, no body returned.

♦ Body Content Validation (Optional):

Check if the updated data is returned and matches what you sent.

♦ Example (RestAssured - Java):

```
java

// Step 1: Update the user
given()
    .header("Content-Type", "application/json")
    .body("{ \"name\": \"Koti\", \"email\": \"koti@abc.com\" }")
.when()
    .put("https://api.example.com/users/123")
.then()
    .statusCode(200) // or 204
    .body("name", equalTo("Koti"))
    .body("email", equalTo("koti@abc.com"));
```

♦ Step 2 (Optional): GET the updated resource

```
java

given()
.when()
    .get("https://api.example.com/users/123")
.then()
    .statusCode(200)
    .body("name", equalTo("Koti"));
```

✗ 2. Validating DELETE

♦ HTTP Status Code:

- **200 OK** – Resource deleted, may return confirmation.
- **204 No Content** – Deleted successfully, no response body.
- **404 Not Found** – If you try to delete it again.

♦ Example (RestAssured - Java):

```
java

// Step 1: Delete the user
given()
.when()
.delete("https://api.example.com/users/123")
.then()
.statusCode(204); // or 200
```

♦ Step 2 (Optional): Confirm deletion via GET

```
java

given()
.when()
.get("https://api.example.com/users/123")
.then()
.statusCode(404); // Not Found means deletion successful
```

Summary of Validation

Operation	Status Code	Additional Validation
PUT	200 / 204	Re-GET and check values
DELETE	200 / 204	Re-GET returns 404

Would you like the same example using **Postman**, **Python**, or for a live dummy API like **reqres.in** or **jsonplaceholder**?