

Given/When/Then

In this lesson, we'll learn how to build a DSL expression request using the Given/When/Then methods.

We'll cover the following ^

- `given()`
- `when()`
- `then()`

`given()`

It is used in building the DSL expression request with any additional information like headers, params, message body, authentication, etc., before making any `HTTP Request` like `POST`, `GET`, `PUT`, `DELETE` using `given()` method.

Example 1:

```
RestAssured.given()
    .header("header1", "value1")
    .header("header2", "value2")
    .param("param1", "paramValue")
    .body(body)
    .post(url);
```

In the example above, before sending the `POST` request, `headers(...)`, `params(...)` and `body(...)` are added to the request builder.

Example 2:

```
RestAssured.given()
    .get(url);
```

In this example, no extra information is added to the request builder before making a `GET` request.

`when()`

Using `when()`, you can start building the DSL expression by sending a request without any parameters, headers or body etc.

`when()` can be used with `given()` or independently in the DSL expression.

Example 1:

```
RestAssured.given()
    .param("firstName", "John")
    .param("lastName", "Doe")
    .when()
    .get("/greet");
```

In the example above, `when()` is used with `given()` in the DSL expression to pass some parameters with the request.

Example 2:

```
RestAssured.when()
    .get(url);
```

In the DSL expression above, there is no additional information like headers or params passed while making a `get(URL)` call.

`then()` #

It is always used with either `given()`, `when()`, or with both methods in the DSL expression. It returns a validatable response.

Example:

```
RestAssured.given().
    .param("firstName", "John")
    .param("lastName", "Doe")
    .when()
    .get("/greet")
    .then()
    .body("greeting", equalTo("John Doe"));
```

In the next few lessons, we'll use the learning of given/when/then to automate

an HTTP request/response.

In the next lesson, we will learn how to automate an `HTTP GET request` using `REST Assured`.