How Rest Assured works

Exp :https://reqres.in/api/user/2

Base <URL:https://reqres.in>

Resource: api/users/

Path parameter: 2

Query parameter: ?page=2

Exp: <https://reqres.in/api/users?page=2>

HTTP method/verb

The four basic create, read ,update and delete (CRUD) operations are perfoemed using the post,get,put and delete methods in the interface.

POST: this verb is used to create a new resource on a server.

GET: this verb is used to get or read data from a server.

PUT or PATCH: both put and patch verbs are used to update a resource on a server.

The put method is used to update the record entirely.

The patch method is used to update the record partially instead of updating the entire resource.

DELETE: this verb is used to delete a resorce from a server.

HEADERS: headers represent the meta data associated with http request or respons. It is the additional information that is passed between client and server along with the request or response.headers are used for several purpose, such as authentic action, catching ,messaging body information, handling cookies etc headers will be key-value pairs or can be key with multiple values.

Payload body

The payload/body contains the information that the user wants to send the server. The payload is used only with the request that alter the existing resource or create new ones.

2. send the request over the network

3 validate the receive response

HTTP response

The HTTP response consists of the status code, headers and response body

As we already discussed headers and body we will focus on status codes

Status codes

HTTP status codes help us to understand the status of the response quickly.

100-199: informational: the request receive and process continuing

200-299: Success: The request successes

300-399:Redirection:the request is redirecting to another URl

400-499:Cleint error:An error occurred from theclient sitde

500-599:server error: An error occurred from the server side.

Rest Assured BDD support

In BDD (Gherkin Style) test cases are written in a natural language that even non programme can read.

Rest Assured support BDD format i.e given, when and then statements

Given()- we provide all the input details here i.e BASE URL,Headers,Path Parameter,Query Parameter, and request body/payload.

When()- we specify the resources, HTTP request method like POST,GET,PUT,PATCH or DELETE.

Then()-we validate the response i.e the response code, response message, response headers, response body etc.

Demo

Get request – <https://reqres.in/api/users?page=2>

Print response code, response body, response header, response time.