



CP-WST Practical Solution Mock Examination 1



This Document is providing a solution to the Qn_1 of [CP-WST Mock Exam 1](#).

Qn_1) Use Karate web services test automation tool and validate the following web services request

a.URL - <https://reqres.in/api/users?page=2>

Request Type – GET

Response = 200

b.URL - <https://reqres.in/api/login>

Request Type – Post

Request Body - "email": "peter@klaven",
"password": "cityslicka"

Response – 200

c.URL - <https://reqres.in/api/users/3>

Request Type – Put

Request body – name and job

Response – 200

d.URL - <https://reqres.in/api/users/3>

Request Type – DELETE

Response – 204

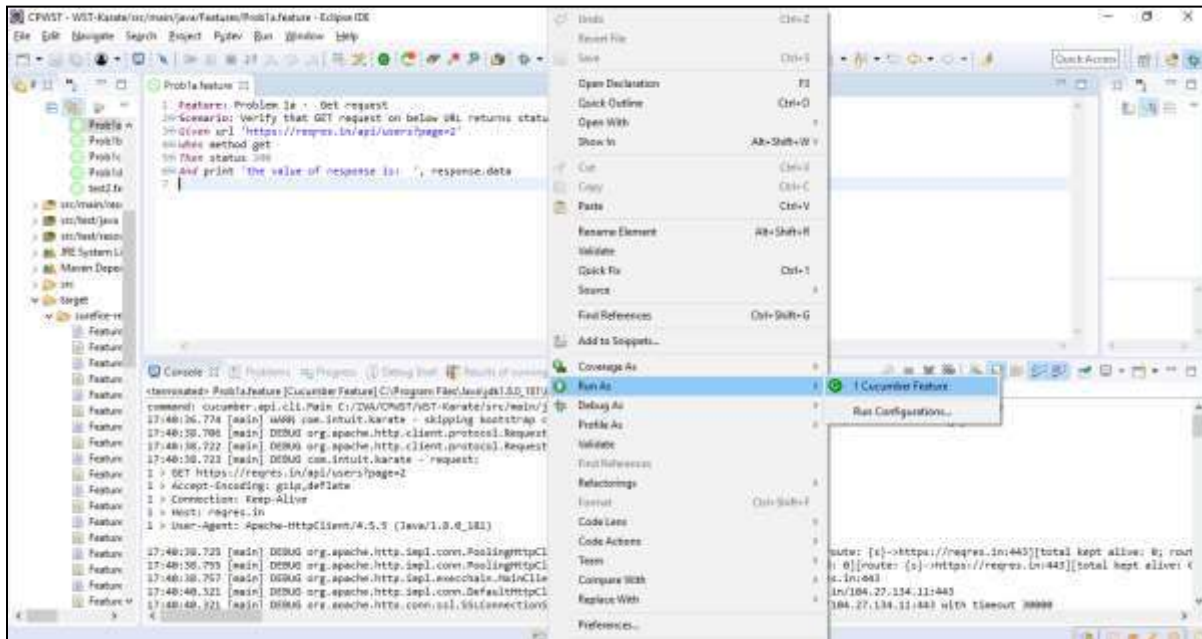
Validate response with time stamp

Soln 1a)

Step 1: Create Prob_1a.feature file in Eclipse and would be something like

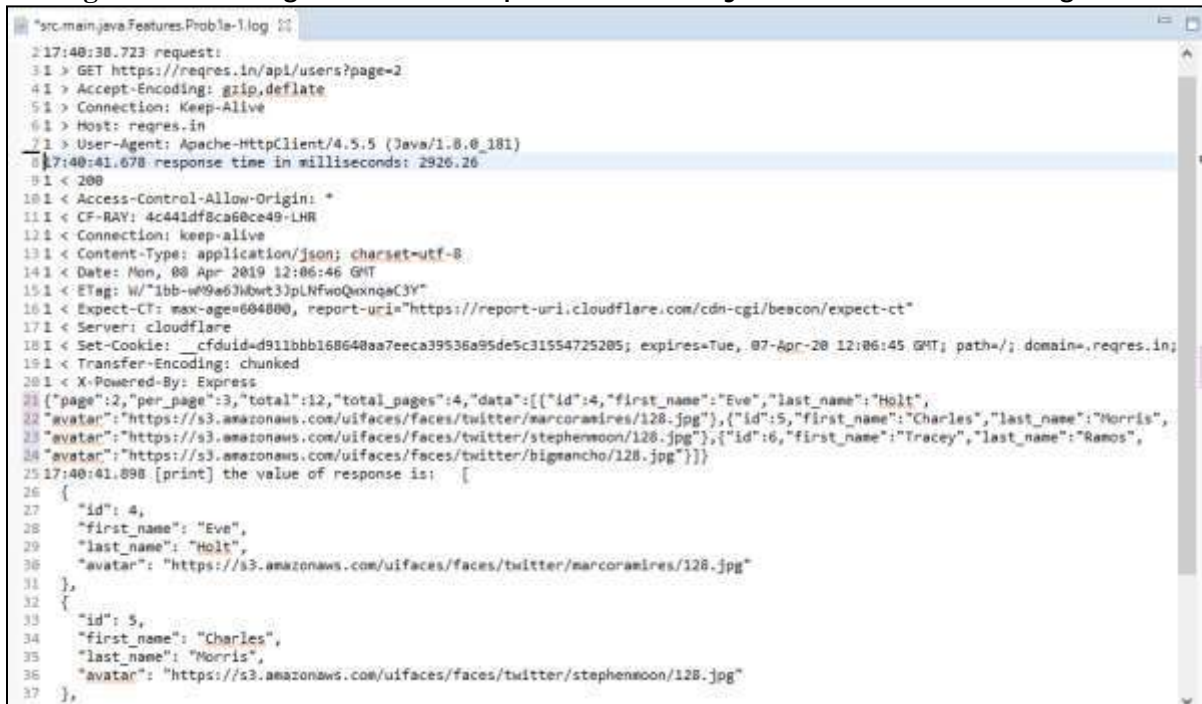
```
Prob1a.feature ✖
1 Feature: Problem 1a - Get request
2 Scenario: Verify that GET request on below URL returns status code of 200
3 Given url 'https://reqres.in/api/users?page=2'
4 When method get
5 Then status 200
6 And print 'the value of response is: ', response.data
7 |
```

Step 2: Right click on feature file and Run As -> Cucumber Feature



Step 3:

The log file is at `./target/surefire-reports/src.main.java.Features.Prob1a.log`



Step 4: The HTML report file is at

`./target/surefire-reports/src.main.java.Features.Prob1a.html`

Test Report is as follows

The screenshot shows a Karate Test Suite interface. On the left, there's a 'Test Suite Navigation' panel with a progress indicator showing 0% of tests passed. The main area displays a list of scenarios and their results. The first scenario, 'Verify that GET request on below URL returns status code of 200', is highlighted in green, indicating it passed. Below this, a detailed view of a test step is shown, including the request and response details.

```

Scenarios: [1:2] Verify that GET request on below URL returns status code of 200
Test 1: Given url 'https://reqres.in/api/users?page=2' 0.004169
17:40:38.803 skipping bootstrap configuration: could not find or read file: classpath:karate-config.js
Test 2: When method get 3.018981
17:40:38.723 request:
1 > GET https://reqres.in/api/users?page=2
1 > Accept-Encoding: gzip,deflate
1 > Connection: keep-alive
1 > Host: reqres.in
1 > User-Agent: Apache-HttpClient/4.5.5 (Java/1.8.0_181)
17:40:41.878 response time in milliseconds: 2928.28
1 < 200
1 < Access-Control-Allow-Origin: *
1 < CF-RAY: 4c4a2f3ca0ce4b-LHR
1 < Connection: keep-alive
1 < Content-Type: application/json; charset=UTF-8
1 < Date: Mon, 09 Apr 2019 12:06:46 GMT
1 < ETag: W/"11b-0f1ed3d0d31c0UuoQvooaC3V"
1 < Expect-CT: max-age=604800, report-uri="https://report-uri.cloudflare.com/cdn-cgi/beacon/expect-ct"
1 < Server: cloudflare
1 < Set-Cookie: __cfduid=011b2a1888aa7eca29034e84e6c1354712291; expires=Thu, 07-Apr-20 12:06:46 GMT; path=/; domain=reqres.in; HttpOnly;
1 < Transfer-Encoding: chunked
1 < X-Powered-By: Express
["page":2,"per_page":3,"total":12,"total_pages":4,"data":
{"id":4,"first_name":"Eve","last_name":"Mull","avatar":"https://s3.amazonaws.com/uifaces/faces/twitter/marcodreina/128.jpg"},
{"id":5,"first_name":"Drew","last_name":"Morris","avatar":"https://s3.amazonaws.com/uifaces/faces/twitter/stephenmoore/128.jpg"},
{"id":6,"first_name":"Tracy","last_name":"Baum","avatar":"https://s3.amazonaws.com/uifaces/faces/twitter/signatone/128.jpg"}]
Test 3: Then status 200 3.000026
Test 4: And print 'the value of response in', response.data 0.057387
17:40:41.890 [print] the value of response is: {
  "test": "A",
  "first_name": "Eve",
  "last_name": "Mull",
  "avatar": "https://s3.amazonaws.com/uifaces/faces/twitter/marcodreina/128.jpg"
}

```

Soln 1b)

Step 1: Create Prob_1b.feature file in Eclipse and would be something like

```

* Prob1b.feature
1 Feature: Post request to URL - https://reqres.in/api/login
2 Scenario: Verify that the Post request results in proper status code 200
3 Given url 'https://reqres.in/api/login'
4 And request {email: 'peter@klaven', password : 'cityslicka'}
5 When method post
6 Then status 200
7 And match response.token == '#string'
8 And print 'The Response is = ', response

```

Step 2:

Right click on feature file and Run As -> Cucumber Feature

Step 3:

The log file is at ./target/surefire-reports/src.main.java.Features.Prob1b.log

12:08:05.184 skipping bootstrap configuration: could not find or read file:

classpath:karate-config.js

12:08:06.326 request:

1 > POST https://reqres.in/api/login

1 > Accept-Encoding: gzip,deflate

1 > Connection: Keep-Alive

1 > Content-Length: 48

1 > Content-Type: application/json; charset=UTF-8

1 > Host: reqres.in

1 > User-Agent: Apache-HttpClient/4.5.5 (Java/1.8.0_181)

{"email":"peter@klaven","password":"cityslicka"}

12:08:10.013 response time in milliseconds: 3683.91

1 < 200

1 < Access-Control-Allow-Origin: *

1 < CF-RAY: 4c4a74369aad6b85-LHR

1 < Connection: keep-alive

1 < Content-Length: 28

1 < Content-Type: application/json; charset=utf-8

1 < Date: Tue, 09 Apr 2019 06:34:13 GMT

1 < ETag: W/"1c-Qhb23J5gzWLVsuoG0IKOSkfy7a0"

1 < Expect-CT: max-age=604800, report-uri="https://report-uri.cloudflare.com/cdn-cgi/beacon/expect-ct"

```

1 < Server: cloudflare
1 < Set-Cookie: __cfduid=dca5cb1e209032c62d147fef45855286c1554791652; expires=Wed,
08-Apr-20 06:34:12 GMT; path=/; domain=.reqres.in; HttpOnly
1 < X-Powered-By: Express
{"token": "QpwL5tke4Pnpja7X"}

```

```

12:08:10.038 [print] The Response is = {
  "token": "QpwL5tke4Pnpja7X"
}

```

Step 4: The HTML report file is at
./target/surefire-reports/src.main.java.Features.Prob1b.html
Test Report is as follows

Soln 1c)

Step 1: Create Prob_1c.feature file in Eclipse and would be something like

```

Prob1c.feature
1 Feature: Prob1c - Put request for URL - https://reqres.in/api/users/3
2 Scenario: Verify for the proper status code and response
3 Given url 'https://reqres.in/api/users/3'
4 And request {name: 'Anand', Job: 'WST'}
5 When method Put
6 Then status 200
7 And print 'the value of response is:', response

```

Step 2:
Right click on feature file and Run As -> Cucumber Feature

Step 3:
The log file is at ./target/surefire-reports/src.main.java.Features.Prob1c.log

```

1 15:38:15.632 skipping bootstrap configuration: could not find or read file: classpath:karate-config.js
2 15:38:16.812 request:
3 1 > PUT https://reqres.in/api/users/3
4 1 > Accept-Encoding: gzip,deflate
5 1 > Connection: Keep-Alive
6 1 > Content-Length: 28
7 1 > Content-Type: application/json; charset=UTF-8
8 1 > Host: reqres.in
9 1 > User-Agent: Apache-HttpClient/4.5.5 (Java/1.8.0_181)
10 {"name":"Anand","Job":"WST"}
11
12 15:38:19.113 response time in milliseconds: 2297.81
13 1 < 200
14 1 < Access-Control-Allow-Origin: *
15 1 < CF-RAY: 4c4ba8095a7ace45-LHR
16 1 < Connection: keep-alive
17 1 < Content-Type: application/json; charset=utf-8
18 1 < Date: Tue, 09 Apr 2019 10:04:21 GMT
19 1 < ETag: W/"43-CEJTLZ9+238WhYL82x+707b5M+o"
20 1 < Expect-CT: max-age=604800, report-uri="https://report-uri.cloudflare.com/cdn-cgi/beacon/expect-ct"
21 1 < Server: cloudflare
22 1 < Set-Cookie: __cfduid=d394737e9f6646765d0564d79f2777c721554804261; expires=Wed, 08-Apr-20 10:04:21 GMT;
23 1 < Transfer-Encoding: chunked
24 1 < X-Powered-By: Express
25 {"name":"Anand","Job":"WST","updatedAt":"2019-04-09T10:09:09.947Z"}
26
27 15:38:19.123 [print] the value of response is: {
28   "name": "Anand",
29   "Job": "WST",
30   "updatedAt": "2019-04-09T10:09:09.947Z"
31 }
32

```

Step 4: The HTML report file is at
./target/surefire-reports/src.main.java.Features.Prob1b.html
Test Report is as follows

The screenshot shows a test suite report with a navigation sidebar on the left and a detailed test log on the right. The sidebar indicates 95 failed tests (0.00%) and 95 skipped tests (0.00%), with 55 passed tests (58.00%). The test log shows a scenario with 5 tests, all of which passed. The first test, 'Given url https://reqres.in/api/users/3', passed with a duration of 0.004849s. The log also displays the request and response details for this test, including headers like 'Accept-Encoding: gzip,deflate' and 'Content-Type: application/json; charset=UTF-8', and the JSON response: {"name":"Anand","Job":"WST","updatedAt":"2019-04-09T10:09:09.947Z"}.

Soln 1d)

Step 1: Create Prob_1d.feature file in Eclipse and would be something like

```

1 Feature: 1d - Delete Request for URL - https://reqres.in/ api/users/3
2 Scenario: Verify that the appropriate response is 204
3 Given url 'https://reqres.in/api/users/3'
4 When method Delete
5 Then status 204
6 And match response.token == '#string'
7 And print 'The Response is $$ ', response

```

Step 2:

Right click on feature file and Run As -> Cucumber Feature

Step 3:

The log file is at `./target/surefire-reports/src.main.java.Features.Prob1d.log`

```
Prob1d.feature  *src.main.java.Features.Prob1d-1.log  src.main.java.Features.Prob1d
1 15:46:48.248 skipping bootstrap configuration: could not find or read file: classpath:karate-config.js
2 15:46:49.382 request:
3 1 > DELETE https://reqres.in/api/users/3
4 1 > Accept-Encoding: gzip,deflate
5 1 > Connection: Keep-Alive
6 1 > Host: reqres.in
7 1 > User-Agent: Apache-HttpClient/4.5.5 (Java/1.8.0_181)
8
9 15:46:53.078 response time in milliseconds: 3694.59
10 1 < 204
11 1 < Access-Control-Allow-Origin: *
12 1 < CF-RAY: 4c4bb494ed6ece55-LHR
13 1 < Connection: keep-alive
14 1 < Date: Tue, 09 Apr 2019 10:12:55 GMT
15 1 < ETag: W/"2-vyGp6PvFo4RvsFtPoIWeCReyIC8"
16 1 < Expect-CT: max-age=604800, report-uri="https://report-uri.cloudflare.com/cdn-cgi/beacon/expect-ct"
17 1 < Server: cloudflare
18 1 < Set-Cookie: __cfduid=d9e9fec9cbc655723cd7b9ca4a09bf8661554804775; expires=Wed, 08-Apr-20 10:12:55 GMT; path=/; domain=reqres.in; HttpOnly
19
20 1 < X-Powered-By: Express
21
22 15:46:53.092 [print] The Response is $$
23
```

Step 4: The HTML report file is at

`./target/surefire-reports/src.main.java.Features.Prob1d.html`

Test Report is as follows

The screenshot displays a Karate Test Suite report. On the left, a 'Test Suite Navigation' sidebar shows 0/5 failed tests (0.00%), 0/5 skipped tests (0.00%), and 5/5 passed tests (100.00%). The main content area shows a scenario titled 'Verify that the appropriate response is 204'. It lists five tests, all of which passed:

- Test 1: Given url 'https://reqres.in/api/users/3' (0.004988)
- Test 2: When method Delete (4.805503)
- Test 3: Then status 204 (0.005022)
- Test 4: And match response 'When == \$body (0.004441)
- Test 5: And print 'The Response is \$\$', response (0.006333)

The detailed log for Test 2 shows the request and response headers, including the Set-Cookie header and the response status of 204.