



IT 314

Software Engineering

NON-FUNCTIONAL TESTING

(Sprint 3)

Fork & Feast

Group 28

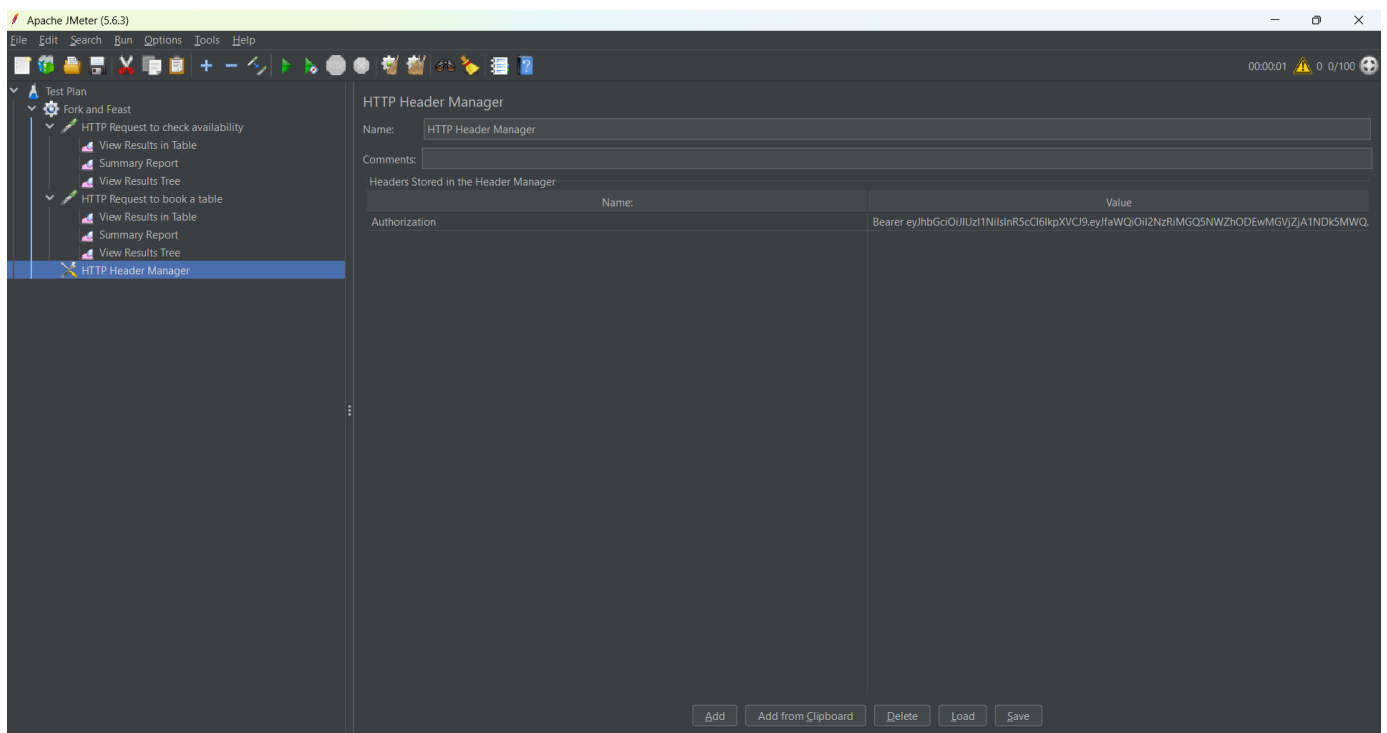
➤ Tool Used:

Apache jmeter-5.6.3

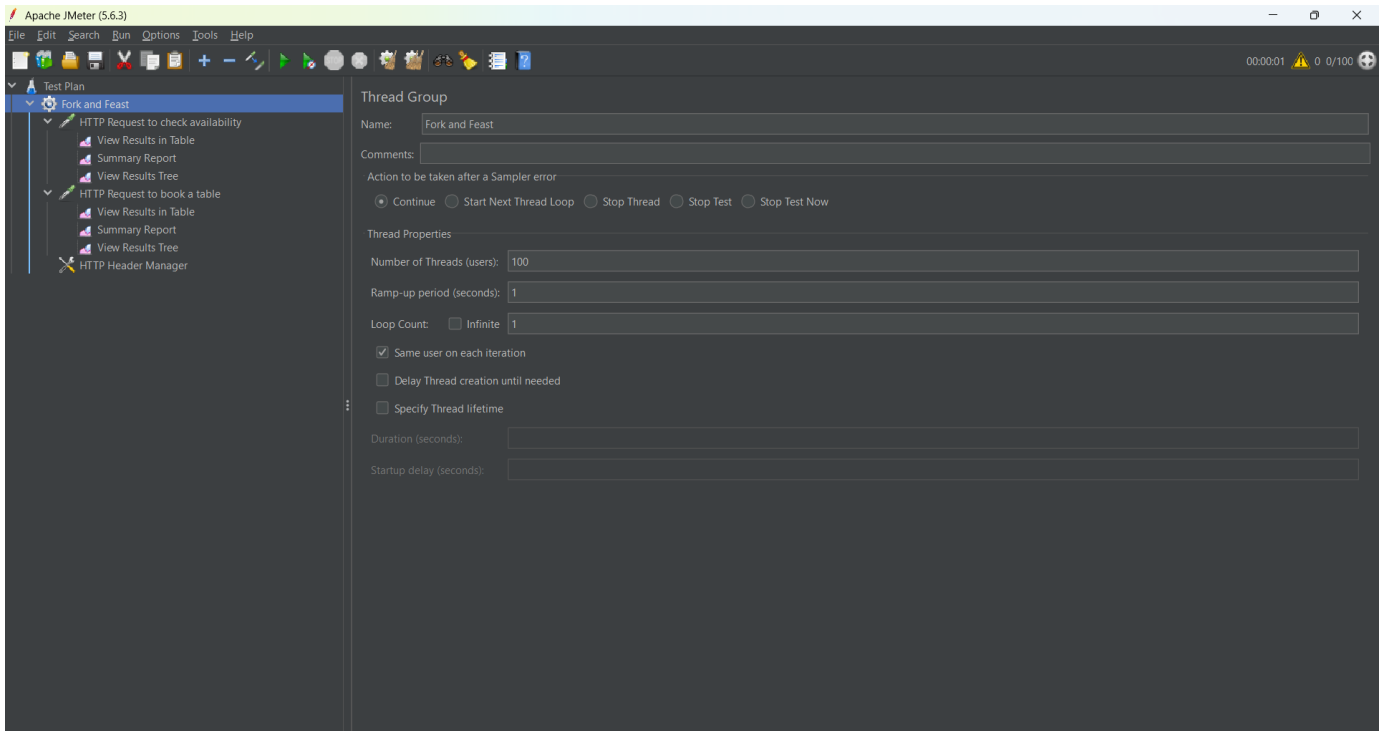
➤ Load Balance Testing

- **Testing User check availability**
POST request to PATH 'forkandfeast.onrender.com/reservation/checkAvailability'
- **Testing User Bookings**
POST request to PATH 'forkandfeast.onrender.com /reservation/createReservation'
- **Scenario:** We accessed the USER bookings page for same restaurant using the same user account from multiple hosts (100 and 500) to assess the system's load balancing and throughput efficiency.

As we are using POST method we have to include a token value so that it can validate the user account.

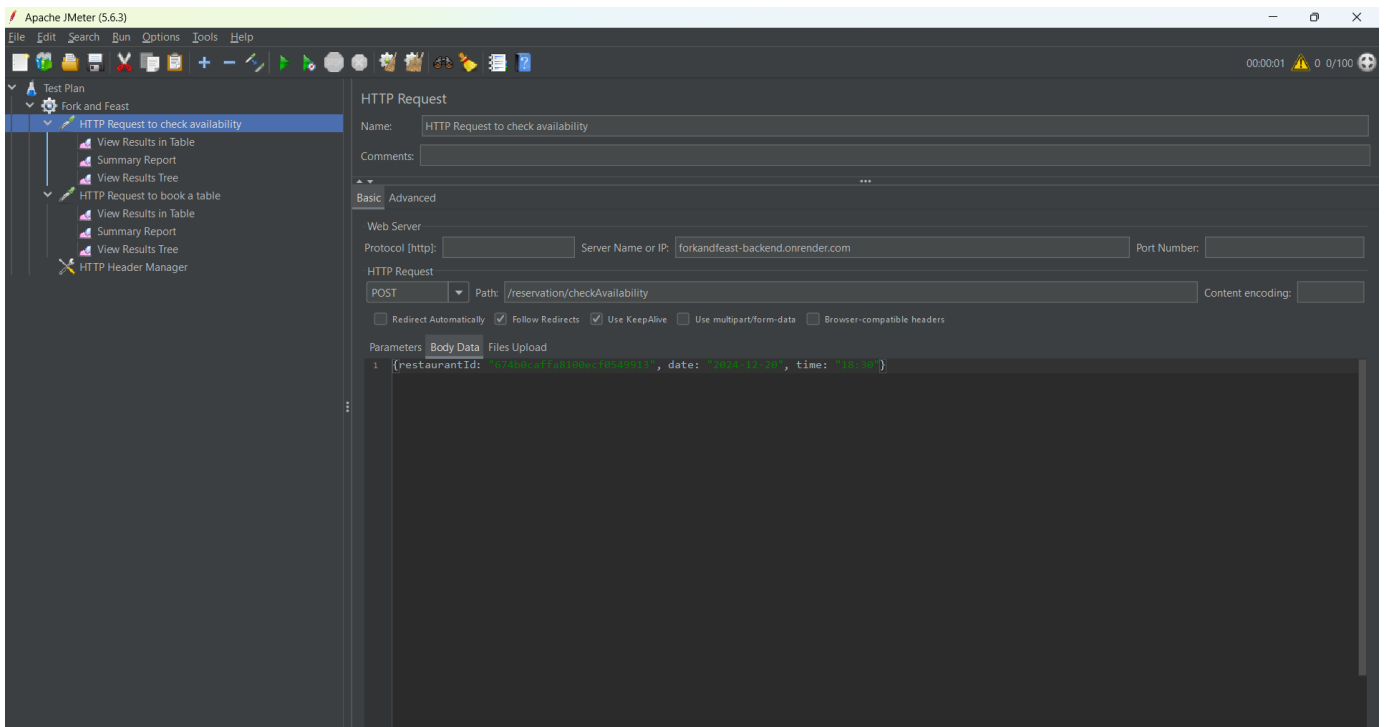


- **100 users:**



For check availability:

The data we are giving as input:



Results:

Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

00:00:01 0 0/100

Test Plan

- Fork and Feast
 - HTTP Request to check availability
 - View Results in Table
 - Summary Report
 - View Results Tree
 - HTTP Request to book a table
 - View Results in Table
 - Summary Report
 - View Results Tree
 - HTTP Header Manager

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename: Browse... Log/Display Only: Errors Successes Configure

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
76	18:39:57.439	Fork and Feast 1-7...	HTTP Request to c...	339	✓	343	520	339	6
77	18:39:57.460	Fork and Feast 1-7...	HTTP Request to c...	328	✓	343	520	328	6
78	18:39:57.480	Fork and Feast 1-8...	HTTP Request to c...	319	✓	343	520	319	12
79	18:39:57.470	Fork and Feast 1-8...	HTTP Request to c...	334	✓	343	520	334	2
80	18:39:57.497	Fork and Feast 1-8...	HTTP Request to c...	312	✓	343	520	312	3
81	18:39:57.507	Fork and Feast 1-8...	HTTP Request to c...	309	✓	343	520	309	4
82	18:39:57.490	Fork and Feast 1-8...	HTTP Request to c...	327	✓	343	520	327	8
83	18:39:57.517	Fork and Feast 1-8...	HTTP Request to c...	308	✓	343	520	308	4
84	18:39:57.531	Fork and Feast 1-8...	HTTP Request to c...	315	✓	343	520	315	1
85	18:39:57.450	Fork and Feast 1-7...	HTTP Request to c...	398	✓	343	520	398	6
86	18:39:57.538	Fork and Feast 1-8...	HTTP Request to c...	327	✓	343	520	327	2
87	18:39:57.418	Fork and Feast 1-7...	HTTP Request to c...	453	✓	343	520	453	9
88	18:39:57.547	Fork and Feast 1-8...	HTTP Request to c...	329	✓	343	520	329	8
89	18:39:57.557	Fork and Feast 1-8...	HTTP Request to c...	332	✓	343	520	332	3
90	18:39:57.591	Fork and Feast 1-9...	HTTP Request to c...	307	✓	343	520	307	5
91	18:39:57.569	Fork and Feast 1-9...	HTTP Request to c...	333	✓	343	520	333	7
92	18:39:57.600	Fork and Feast 1-9...	HTTP Request to c...	311	✓	343	520	311	7
93	18:39:57.640	Fork and Feast 1-9...	HTTP Request to c...	312	✓	343	520	312	15
94	18:39:57.629	Fork and Feast 1-9...	HTTP Request to c...	337	✓	343	520	337	7
95	18:39:57.622	Fork and Feast 1-9...	HTTP Request to c...	357	✓	343	520	357	14
96	18:39:57.658	Fork and Feast 1-9...	HTTP Request to c...	333	✓	343	520	333	8
97	18:39:57.667	Fork and Feast 1-1...	HTTP Request to c...	340	✓	343	520	340	3
98	18:39:57.609	Fork and Feast 1-9...	HTTP Request to c...	398	✓	343	520	398	9
99	18:39:57.648	Fork and Feast 1-9...	HTTP Request to c...	367	✓	343	520	367	7
100	18:39:57.579	Fork and Feast 1-9...	HTTP Request to c...	449	✓	343	520	449	9

☐ Scroll automatically? ☐ Child samples? No of Samples 100 Latest Sample 449 Average 348 Deviation 71

Throughput

Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

00:00:01 0 0/100

Test Plan

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Summary Report

Name: Summary Report

Comments:

Write results to file / Read from file

Filename: Browse... Log/Display Only: Errors Successes Configure

Max	Label	# Samples	Average	Min	Std. Dev.	Error % t	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
635	HTTP Request to...	100	348	287	71.20	0.00%	74.7/sec	25.03	37.95	343.0
635	TOTAL	100	348	287	71.20	0.00%	74.7/sec	25.03	37.95	343.0

☐ Include group name in label? ☒ Save Table Header

Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

Test Plan

- Fork and Feast
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View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename: Browse... Log/Display Only: ☐ Errors ☐ Successes

Search: ☐ Case sensitive ☐ Regular exp.

Text

Sampler result Request Response data

Thread Name:Fork and Feast 1-89
Sample Start:2024-12-01 18:39:57 IST
Load time:332
Connect Time:3
Latency:332
Size in bytes:343
Sent bytes:520
Headers size in bytes:343
Body size in bytes:0
Sample Count:1
Error Count:0
Data type ("text"|"bin"|""): **Response code:307**
Response message:Temporary Redirect

HTTPSampleResult fields:
ContentType:
DataEncoding: null

☐ Scroll automatically?

Raw Parsed

Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

Test Plan

- Fork and Feast
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View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename: Browse... Log/Display Only: ☐ Errors ☐ Successes

Search: ☐ Case sensitive ☐ Regular exp.

Text

Sampler result Request Response data

Request Body Request Headers

Find ☐ Case sensitive ☐ Regular exp.

```
1 POST http://forkandfeast-backend.onrender.com/reservation/checkAvailability
2
3 POST data:
4 {restaurantId: "f33504b-af1a2196a-ff0a090117", date: "2024-12-26", time: "18:38"}
5
6 [no cookies]
7
```

Raw HTTP

Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

Test Plan

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View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename: Browse... Log/Display Only: Errors Successes Configure

Search: Case sensitive Regular exp. Search Reset

Text

Sampler result Request Response data

Request Body Request Headers

Find Case sensitive Regular exp.

```
1 Connection: keep-alive
2 Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ3YWQiOiI2NzRlMGQ5NWZhODEwMGVjZjA1NDk5MmQ1LCJpc093bmV1IjpmYXZlZW5iaWF0IjoxNzY0NDU4MTA1LCJlCjEhAio3E3MzIxNDQ1MDV9.
3 Content-Length: 77
4 Content-Type: text/plain; charset=UTF-8
5 Host: forkandfeast-backend.onrender.com
6 User-Agent: Apache-HttpClient/4.5.14 (Java/23.0.1)
7
```

Raw HTTP

Scroll automatically?

Apache JMeter (5.6.3)

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View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename: Browse... Log/Display Only: Errors Successes Configure

Search: Case sensitive Regular exp. Search Reset

Text

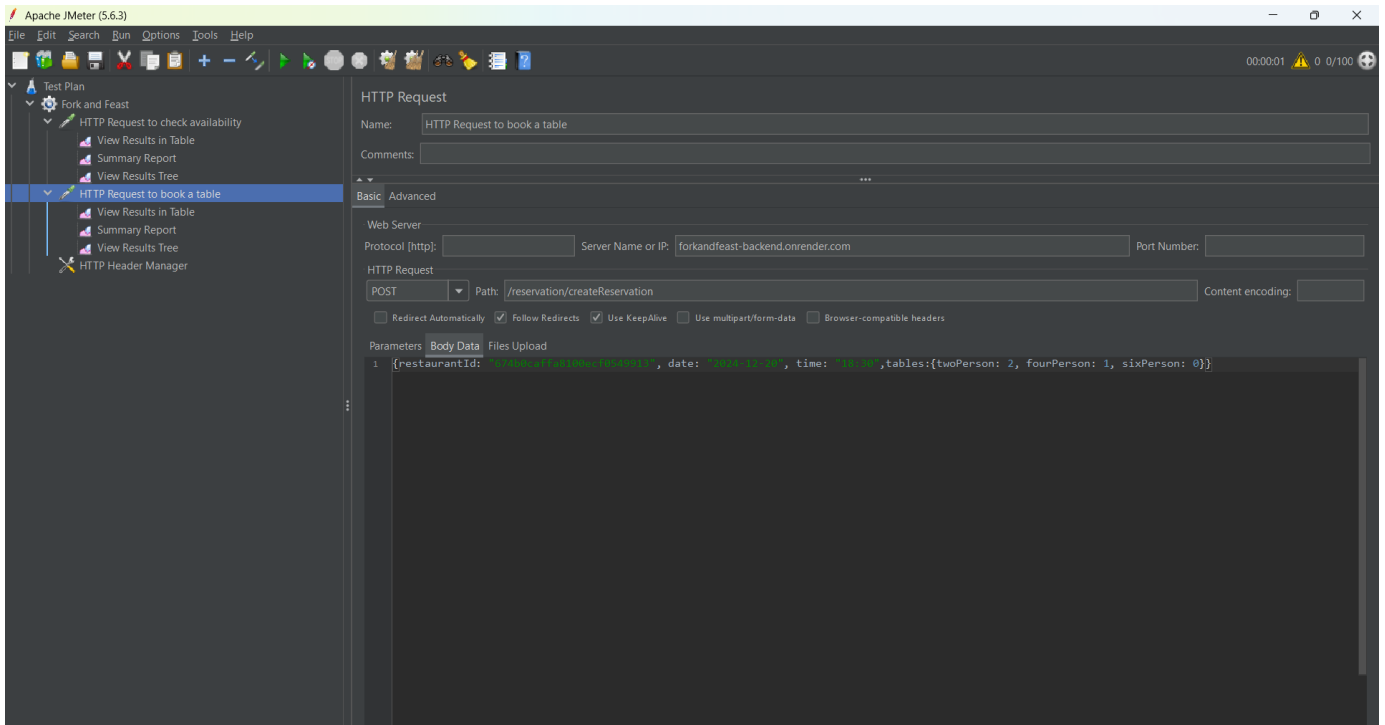
Sampler result Request Response data

Response Body Response headers

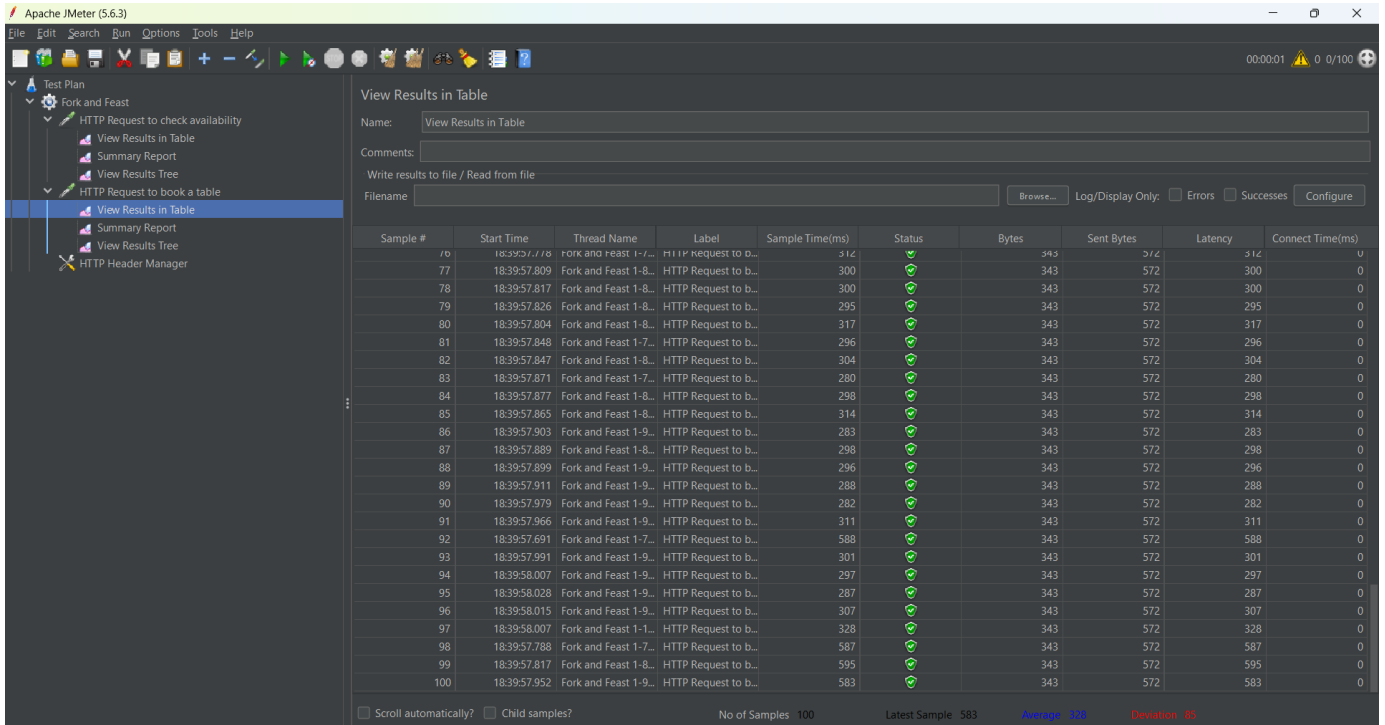
Find Case sensitive Regular exp.

```
1 HTTP/1.1 307 Temporary Redirect
2 Date: Sun, 01 Dec 2024 13:09:53 GMT
3 Content-Length: 0
4 Location: https://forkandfeast-backend.onrender.com/reservation/checkAvailability
5 CF-Ray: 8eb350711e243228-BOM
6 CF-Cache-Status: DYNAMIC
7 Server: cloudflare
8 alt-svc: h3= ; ma=86400
9 Via: HTTP/1.1 forward.http.proxy:3128
10 Connection: keep-alive
11
```

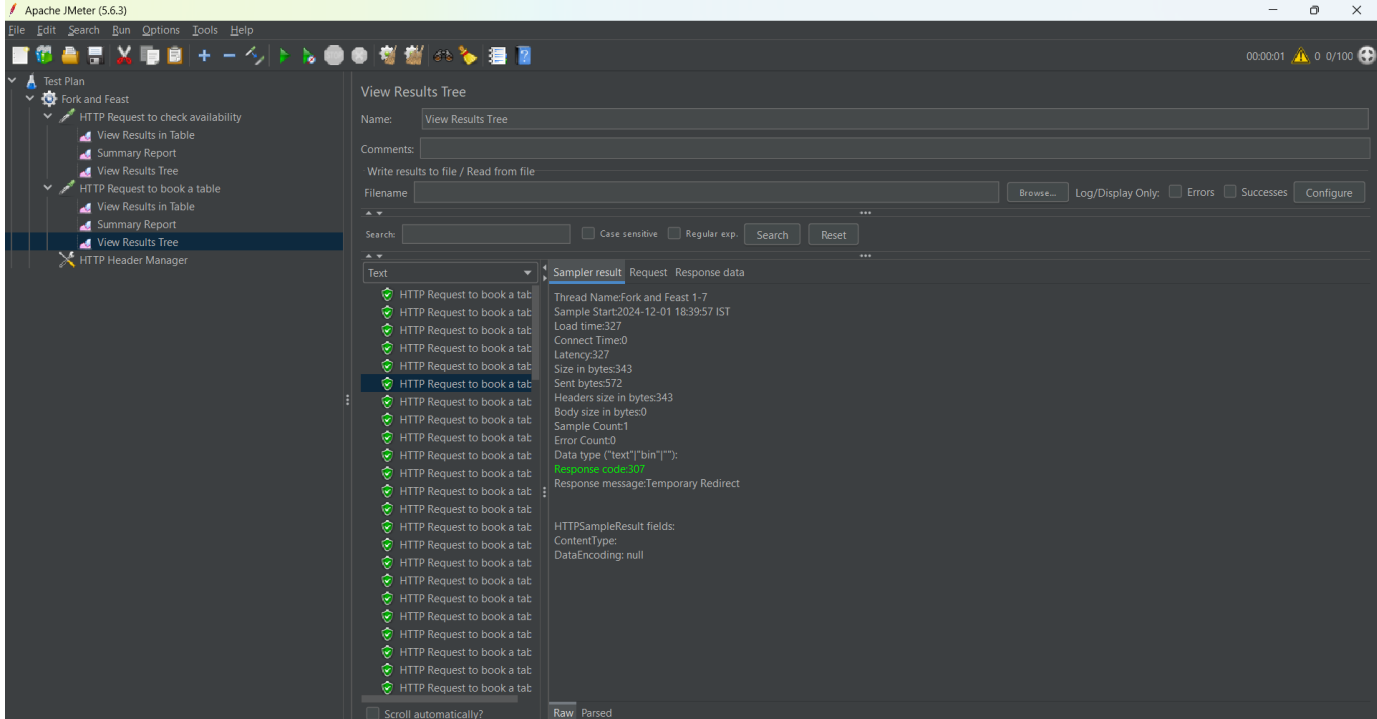
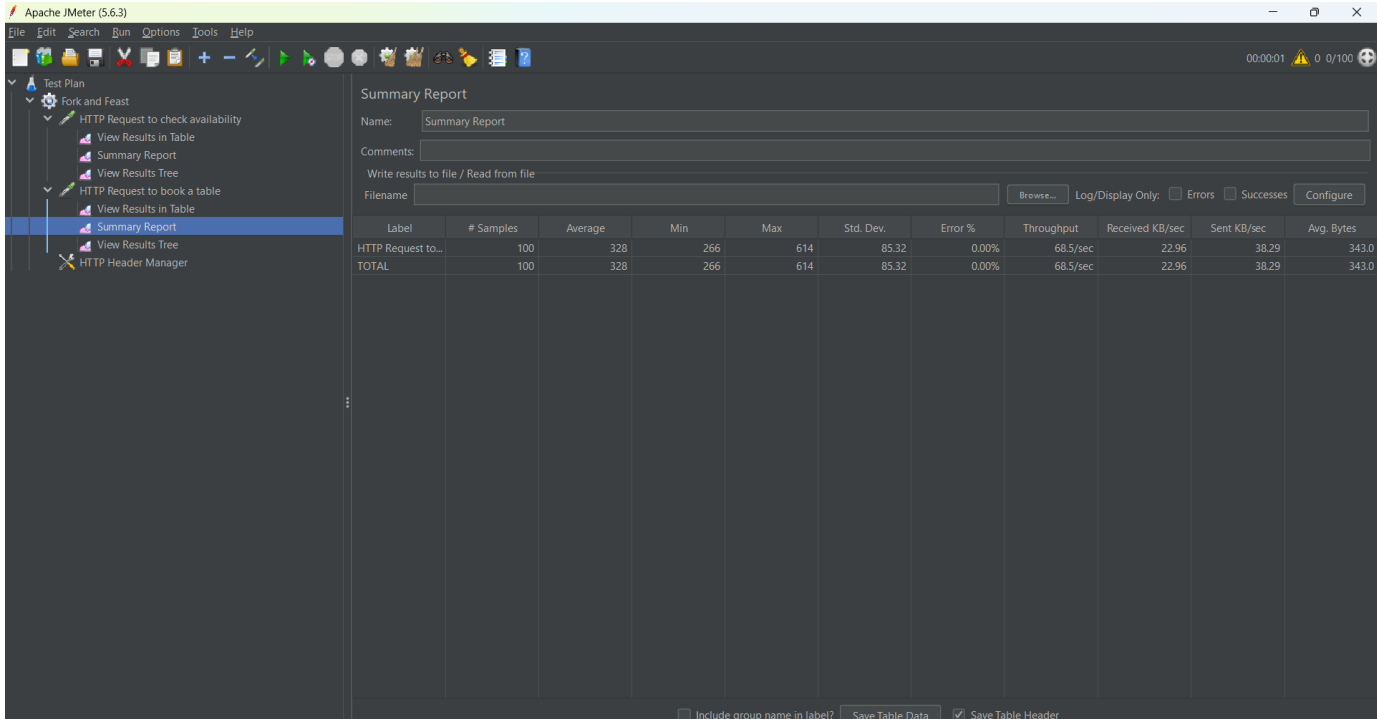
For booking a table:

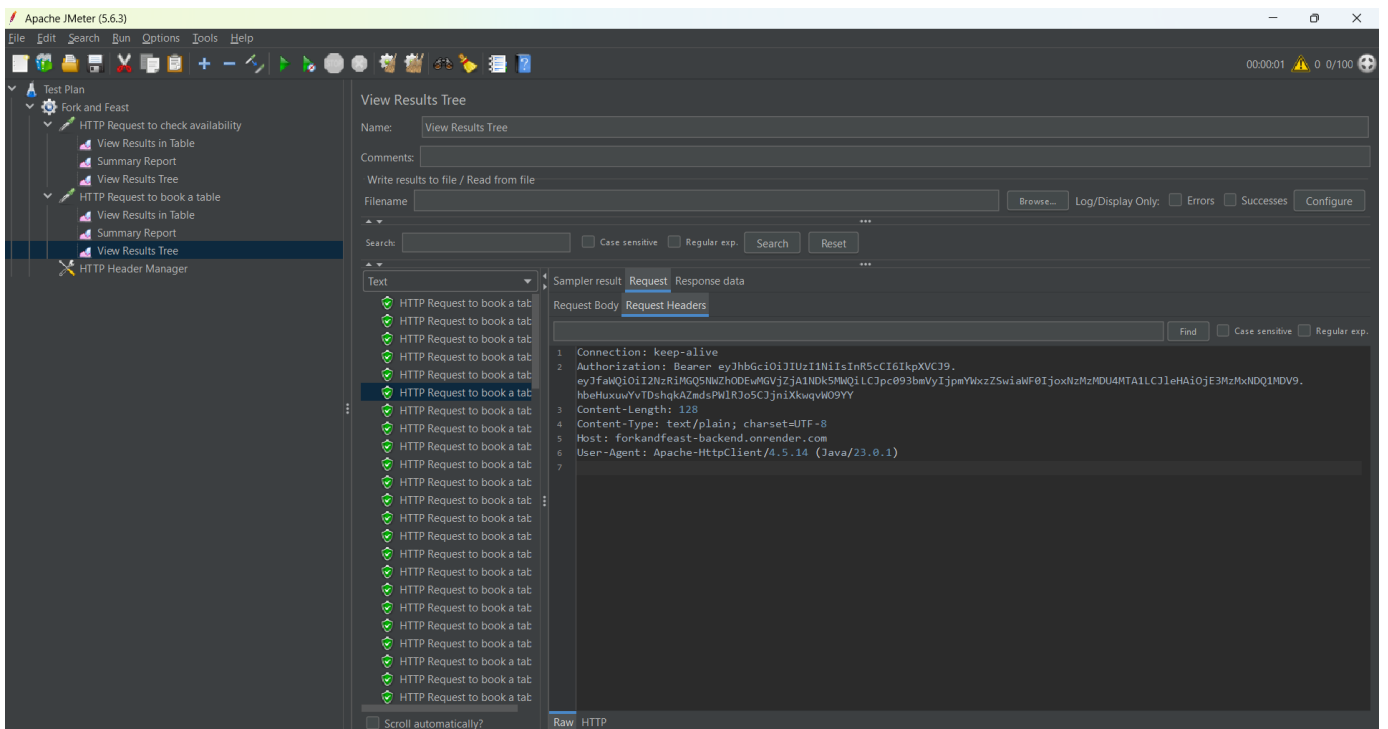
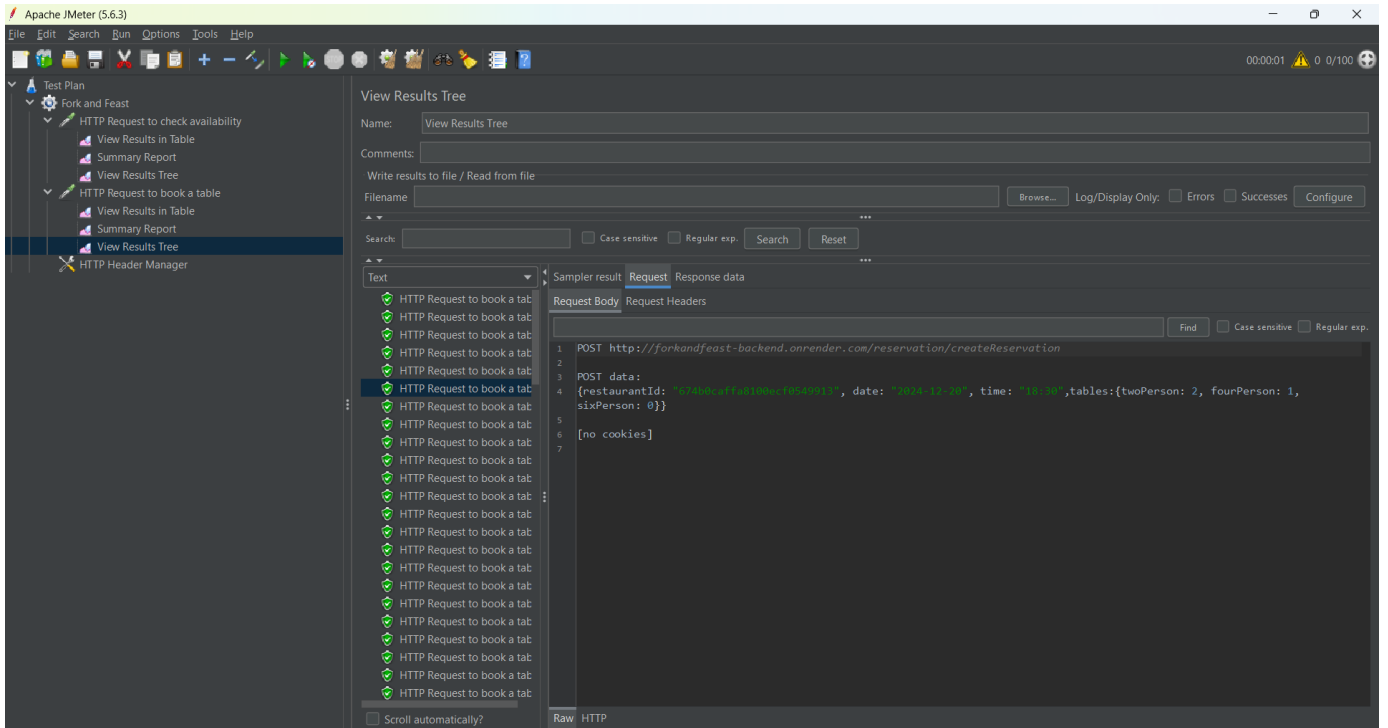


Results:



Throughput





Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

00:00:01 0 0/100

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View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename: Browse... Log/Display Only: ☐ Errors ☐ Successes

Search: ☐ Case sensitive ☐ Regular exp.

Text

Sampler result Request Response data

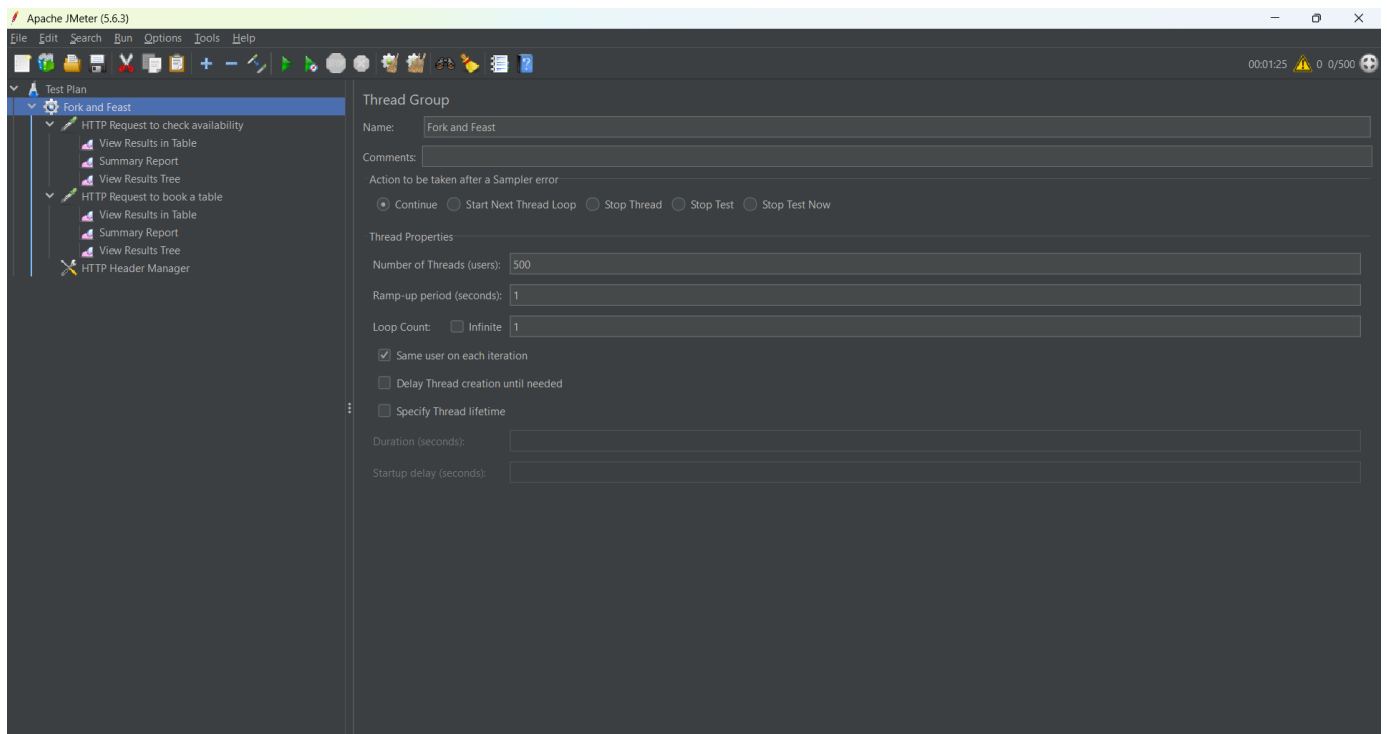
Response Body Response headers

Find ☐ Case sensitive ☐ Regular exp.

```
1 HTTP/1.1 307 Temporary Redirect
2 Date: Sun, 01 Dec 2024 13:09:53 GMT
3 Content-Length: 0
4 Location: https://forkandfeast-backend.onrender.com/reservation/createReservation
5 CF-Ray: 8a195e6a23485a-BOM
6 CF-Cache-Status: DYNAMIC
7 Server: cloudflare
8 alt-svc: h3= ; ma=86400
9 Via: HTTP/1.1 forward.http.proxy:3128
10 Connection: keep-alive
11
```

☐ Scroll automatically?

- 500 users:



For check availability results:

The screenshot shows the 'View Results in Table' window in Apache JMeter 5.6.3. The table displays test results for 500 samples. The first 231 samples are successful (green status icons), while the last 69 samples (232-299) are failed (red status icons). The table columns include Sample #, Start Time, Thread Name, Label, Sample Time(ms), Status, Bytes, Sent Bytes, Latency, and Connect Time(ms). Summary statistics at the bottom show: No of Samples: 500, Latest Sample: 42076, Average: 31139, and Deviation: 16947.

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
213	18:45:56.313	Fork and Feast 1-2...	HTTP Request to c...	36420	✓	343	520	36420	36070
214	18:45:56.307	Fork and Feast 1-2...	HTTP Request to c...	36430	✓	343	520	36430	36076
215	18:45:56.309	Fork and Feast 1-2...	HTTP Request to c...	36439	✓	343	520	36439	36074
216	18:45:56.292	Fork and Feast 1-2...	HTTP Request to c...	36498	✓	343	520	36498	36079
217	18:45:56.262	Fork and Feast 1-2...	HTTP Request to c...	36531	✓	343	520	36531	36075
218	18:45:56.099	Fork and Feast 1-1...	HTTP Request to c...	36712	✓	343	520	36712	36083
219	18:45:56.092	Fork and Feast 1-1...	HTTP Request to c...	36723	✓	343	520	36723	36089
220	18:45:56.119	Fork and Feast 1-1...	HTTP Request to c...	36700	✓	343	520	36700	36094
221	18:45:56.109	Fork and Feast 1-1...	HTTP Request to c...	36715	✓	343	520	36715	36104
222	18:45:56.122	Fork and Feast 1-1...	HTTP Request to c...	36702	✓	343	520	36702	36091
223	18:45:56.125	Fork and Feast 1-1...	HTTP Request to c...	36710	✓	343	520	36710	36089
224	18:45:56.178	Fork and Feast 1-1...	HTTP Request to c...	36669	✓	343	520	36669	36064
225	18:45:56.167	Fork and Feast 1-1...	HTTP Request to c...	36696	✓	343	520	36696	36075
226	18:45:56.175	Fork and Feast 1-1...	HTTP Request to c...	36690	✓	343	520	36690	36067
227	18:45:56.210	Fork and Feast 1-1...	HTTP Request to c...	36681	✓	343	520	36681	36076
228	18:45:56.296	Fork and Feast 1-2...	HTTP Request to c...	36596	✓	343	520	36596	36075
229	18:45:56.203	Fork and Feast 1-1...	HTTP Request to c...	36699	✓	343	520	36699	36082
230	18:45:56.221	Fork and Feast 1-1...	HTTP Request to c...	36706	✓	343	520	36706	36071
231	18:45:56.256	Fork and Feast 1-2...	HTTP Request to c...	36697	✓	343	520	36697	36066
232	18:45:56.321	Fork and Feast 1-2...	HTTP Request to c...	42069	✗	2705	0	0	42068
233	18:45:56.318	Fork and Feast 1-2...	HTTP Request to c...	42072	✗	2705	0	0	42071
234	18:45:56.331	Fork and Feast 1-2...	HTTP Request to c...	42074	✗	2705	0	0	42074
235	18:45:56.325	Fork and Feast 1-2...	HTTP Request to c...	42080	✗	2705	0	0	42080
236	18:45:56.336	Fork and Feast 1-2...	HTTP Request to c...	42069	✗	2705	0	0	42069
237	18:45:56.333	Fork and Feast 1-2...	HTTP Request to c...	42072	✗	2705	0	0	42072

Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

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Summary Report

Name: Summary Report

Comments:

Write results to file / Read from file

Filename: Log/Display Only: ☐ Errors ☐ Successes

Max	Label	# Samples	Average	Min	Std. Dev.	Error % †	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
42093	HTTP Request to...	500	31159	471	16947.49	53.80%	11.6/sec	18.29	2.72	1613.8
42093	TOTAL	500	31159	471	16947.49	53.80%	11.6/sec	18.29	2.72	1613.8

☐ Include group name in label? ☒ Save Table Header

Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

Test Plan

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View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename: Log/Display Only: ☐ Errors ☐ Successes

Search: ☐ Case sensitive ☐ Regular exp.

Text

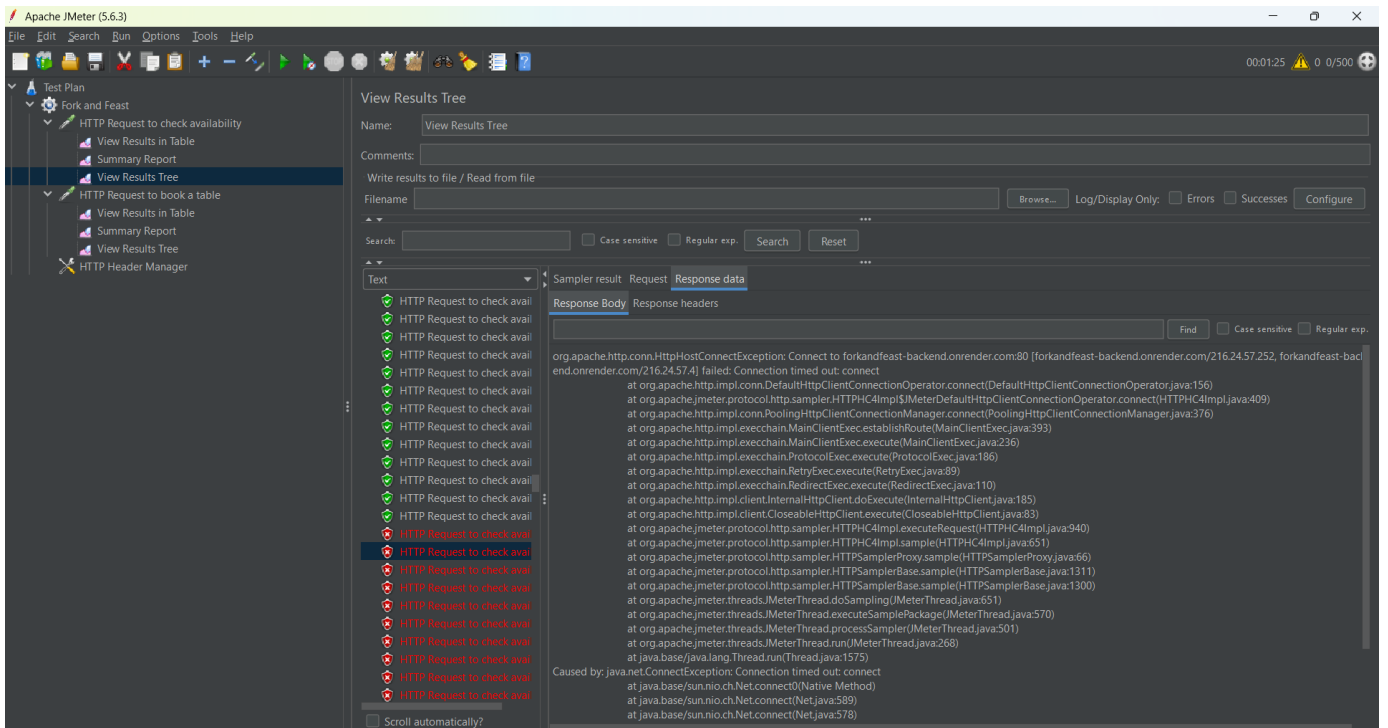
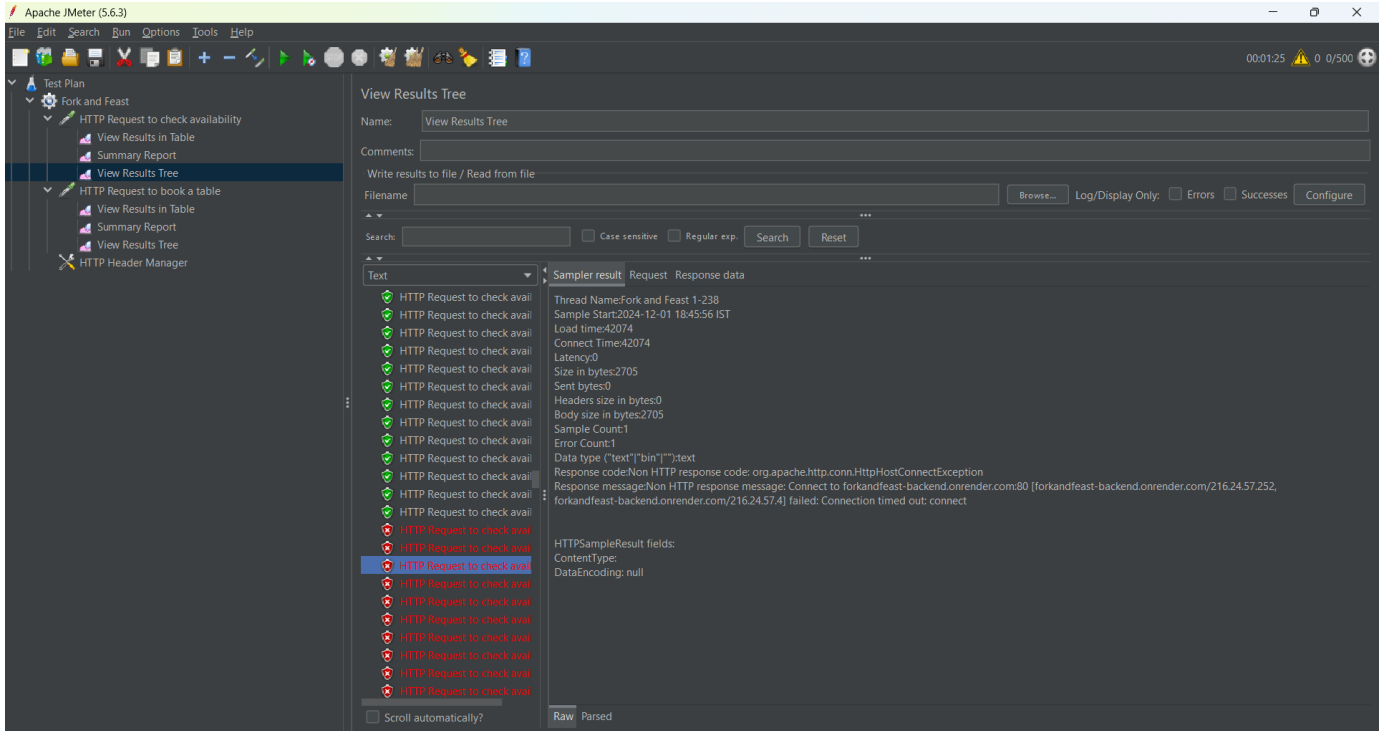
Sampler result: Request Response data

HTTP Request to check avail

Thread Name:Fork and Feast 1-156
Sample Start:2024-12-01 18:45:56 IST
Load time:36696
Connect Time:36075
Latency:36696
Size in bytes:343
Sent bytes:520
Headers size in bytes:343
Body size in bytes:0
Sample Count:1
Error Count:0
Data type ("text"|"bin"|""):
Response code:307
Response message:Temporary Redirect

HTTPSampleResult fields:
ContentType:
DataEncoding: null

☐ Scroll automatically? Raw Parsed



For booking a table results:

Apache JMeter (5.6.3)

FileEditSearchRunOptionsToolsHelp

Test Plan

Fork and Feast

HTTP Request to check availability

View Results in Table

Summary Report

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HTTP Request to book a table

View Results in Table

Summary Report

View Results Tree

HTTP Header Manager

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename: Browse...

Log/Display Only: Errors Successes Configure

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
334	18:46:38.632	Fork and Feast 1-3...	HTTP Request to b...	24389	✓	343	572	24389	24065
335	18:46:38.632	Fork and Feast 1-3...	HTTP Request to b...	24389	✓	343	572	24389	24065
336	18:46:38.614	Fork and Feast 1-3...	HTTP Request to b...	24407	✓	343	572	24407	24067
337	18:46:38.597	Fork and Feast 1-3...	HTTP Request to b...	24431	✓	343	572	24431	24069
338	18:46:38.597	Fork and Feast 1-3...	HTTP Request to b...	24500	✓	343	572	24500	24069
339	18:46:38.412	Fork and Feast 1-2...	HTTP Request to b...	24752	✓	343	572	24752	24071
340	18:46:38.464	Fork and Feast 1-2...	HTTP Request to b...	24704	✓	343	572	24704	24060
341	18:46:38.504	Fork and Feast 1-2...	HTTP Request to b...	24680	✓	343	572	24680	24067
342	18:46:38.486	Fork and Feast 1-2...	HTTP Request to b...	24703	✓	343	572	24703	24069
343	18:46:38.503	Fork and Feast 1-2...	HTTP Request to b...	24688	✓	343	572	24688	24068
344	18:46:38.474	Fork and Feast 1-2...	HTTP Request to b...	24745	✓	343	572	24745	24065
345	18:46:38.615	Fork and Feast 1-3...	HTTP Request to b...	24677	✓	343	572	24677	24066
346	18:46:38.616	Fork and Feast 1-3...	HTTP Request to b...	24681	✓	343	572	24681	24065
347	18:46:38.631	Fork and Feast 1-3...	HTTP Request to b...	42086	✗	2705	0	0	42086
348	18:46:38.631	Fork and Feast 1-3...	HTTP Request to b...	42086	✗	2705	0	0	42086
349	18:46:38.632	Fork and Feast 1-3...	HTTP Request to b...	42085	✗	2705	0	0	42085
350	18:46:38.631	Fork and Feast 1-3...	HTTP Request to b...	42086	✗	2705	0	0	42086
351	18:46:38.631	Fork and Feast 1-3...	HTTP Request to b...	42086	✗	2705	0	0	42086
352	18:46:38.646	Fork and Feast 1-3...	HTTP Request to b...	42088	✗	2705	0	0	42088
353	18:46:38.645	Fork and Feast 1-3...	HTTP Request to b...	42089	✗	2705	0	0	42089
354	18:46:38.645	Fork and Feast 1-3...	HTTP Request to b...	42089	✗	2705	0	0	42089
355	18:46:38.645	Fork and Feast 1-3...	HTTP Request to b...	42089	✗	2705	0	0	42089
356	18:46:38.645	Fork and Feast 1-3...	HTTP Request to b...	42089	✗	2705	0	0	42089
357	18:46:38.646	Fork and Feast 1-3...	HTTP Request to b...	42088	✗	2705	0	0	42088
358	18:46:38.646	Fork and Feast 1-3...	HTTP Request to b...	42088	✗	2705	0	0	42088

☐ Scroll automatically? ☐ Child samples?

No of Samples 500 Latest Sample 42082 Average 18239 Deviation 18211

Apache JMeter (5.6.3)

FileEditSearchRunOptionsToolsHelp

Test Plan

Fork and Feast

HTTP Request to check availability

View Results in Table

Summary Report

View Results Tree

HTTP Request to book a table

View Results in Table

Summary Report

View Results Tree

HTTP Header Manager

Summary Report

Name: Summary Report

Comments:

Write results to file / Read from file

Filename: Browse...

Log/Display Only: Errors Successes Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
HTTP Request to...	500	18739	256	42096	18211.86	30.80%	5.9/sec	6.18	2.28	1070.5
TOTAL	500	18739	256	42096	18211.86	30.80%	5.9/sec	6.18	2.28	1070.5

☐ Include group name in label? ☒ Save Table Header

Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

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View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename: Browse... Log/Display Only: Errors Successes Configure

Search: Case sensitive Regular exp. Search Reset

Text

Sampler result Request Response data

Thread Name:Fork and Feast 1-343

Sample Start:2024-12-01 18:46:38 IST

Load time:42086

Connect Time:42086

Latency:0

Size in bytes:2705

Sent bytes:0

Headers size in bytes:0

Body size in bytes:2705

Sample Count:1

Error Count:1

Data type ("text"|"bin"|"")text

Response code:Non HTTP response code: org.apache.http.conn.HttpHostConnectException

Response message:Non HTTP response message: Connect to forkandfeast-backend.onrender.com:80 [forkandfeast-backend.onrender.com/216.24.57.252, forkandfeast-backend.onrender.com/216.24.57.4] failed: Connection timed out: connect

HTTPSampleResult fields:

ContentType:

DataEncoding: null

Scroll automatically?

Raw Parsed

Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

Test Plan

- Fork and Feast
 - HTTP Request to check availability
 - View Results in Table
 - Summary Report
 - View Results Tree
 - HTTP Request to book a table
 - View Results in Table
 - Summary Report
 - View Results Tree
 - HTTP Header Manager

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename: Browse... Log/Display Only: Errors Successes Configure

Search: Case sensitive Regular exp. Search Reset

Text

Sampler result Request Response data

Response Body Response headers

Find Case sensitive Regular exp.

org.apache.http.conn.HttpHostConnectException: Connect to forkandfeast-backend.onrender.com:80 [forkandfeast-backend.onrender.com/216.24.57.252, forkandfeast-backend.onrender.com/216.24.57.4] failed: Connection timed out: connect

at org.apache.http.impl.conn.DefaultHttpClientConnectionOperator.connect(DefaultHttpClientConnectionOperator.java:156)

at org.apache.jmeter.protocol.http.sampler.HTTPHC4Impl\$JMeterDefaultHttpClientConnectionOperator.connect(HTTPHC4Impl.java:409)

at org.apache.http.impl.conn.PoolingHttpClientConnectionManager.connect(PoolingHttpClientConnectionManager.java:376)

at org.apache.http.impl.execchain.MainClientExec.establishRoute(MainClientExec.java:393)

at org.apache.http.impl.execchain.MainClientExec.execute(MainClientExec.java:236)

at org.apache.http.impl.execchain.ProtocolExec.execute(ProtocolExec.java:186)

at org.apache.http.impl.execchain.RetryExec.execute(RetryExec.java:89)

at org.apache.http.impl.execchain.RedirectExec.execute(RedirectExec.java:110)

at org.apache.http.impl.client.InternalHttpClient.doExecute(InternalHttpClient.java:185)

at org.apache.http.impl.client.CloseableHttpClient.execute(CloseableHttpClient.java:83)

at org.apache.jmeter.protocol.http.sampler.HTTPHC4Impl.executeRequest(HTTPHC4Impl.java:940)

at org.apache.jmeter.protocol.http.sampler.HTTPHC4Impl.sample(HTTPHC4Impl.java:651)

at org.apache.jmeter.protocol.http.sampler.HTTPSamplerProxy.sample(HTTPSamplerProxy.java:66)

at org.apache.jmeter.protocol.http.sampler.HTTPSamplerBase.sample(HTTPSamplerBase.java:1311)

at org.apache.jmeter.threads.JMeterThread.doSampling(JMeterThread.java:1300)

at org.apache.jmeter.threads.JMeterThread.executeSamplePackage(JMeterThread.java:570)

at org.apache.jmeter.threads.JMeterThread.processSampler(JMeterThread.java:501)

at org.apache.jmeter.threads.JMeterThread.run(JMeterThread.java:268)

at java.base/java.lang.Thread.run(Thread.java:1575)

Caused by: java.net.ConnectException: Connection timed out: connect

at java.base/sun.nio.ch.Net.connect0(Native Method)

at java.base/sun.nio.ch.Net.connect(Net.java:589)

at java.base/sun.nio.ch.Net.connect(Net.java:578)

Scroll automatically?