

COURSE NAME : SOFTWARE ENGINEERING

Non-functional testing

“LOADING TESTING”

TABLE OF INDEX:

Home page.....	4
Profile Page.....	5
Edit Profile Page.....	6
Search Page.....	7
View-Course.....	8
Instructor-dashboard.....	9
Edit course.....	10

****JMeter Summary Report Parameters****

The Summary Report in JMeter provides key insights into test performance. Below is a simplified explanation of each parameter:

1. **Label**

- Represents the name or URL of a specific request.
- If the "Include group name in label?" option is enabled, the Thread Group name is prefixed.

2. **Samples**

- Shows the number of virtual users (samples) sent for a request.

3. **Average**

- Displays the average response time (in milliseconds) for all samples under the label.

4. **Min**

- The shortest response time recorded for the label.

5. **Max**

- The longest response time recorded for the label.

6. **Standard Deviation (Std. Dev.)**

- Measures the variation in response times.
- Lower values indicate more consistent performance.

- **Best Practice:** Std. Dev. should be less than or equal to half of the average response time.

7. Error%

- The percentage of failed requests for the label.

8. Throughput

- The number of requests processed per second by the server.
- Higher throughput indicates better performance.

9. KB/Sec

- The amount of data (in KB) downloaded from the server per second.

This report provides a concise overview of your system's performance, helping identify bottlenecks and ensure stability under load.

Home page:

For 150 user:

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	150	13647	107	36507	17455.58	0.00%	3.9/sec	5.67	1.13	1479.0
TOTAL	150	13647	107	36507	17455.58	0.00%	3.9/sec	5.67	1.13	1479.0

For 200 user:

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	200	24158	112	72541	20014.22	18.50%	2.7/sec	4.56	0.63	1730.8
TOTAL	200	24158	112	72541	20014.22	18.50%	2.7/sec	4.56	0.63	1730.8

For 250 user:

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	250	29924	143	72503	18825.73	42.40%	3.4/sec	6.82	0.56	2056.1
TOTAL	250	29924	143	72503	18825.73	42.40%	3.4/sec	6.82	0.56	2056.1

Profile page:

For 150 users:

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	150	13389	115	36248	17362.65	0.00%	3.9/sec	5.73	1.18	1492.0
TOTAL	150	13389	115	36248	17362.65	0.00%	3.9/sec	5.73	1.18	1492.0

For 200 users:

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	200	25396	96	72376	21187.76	18.50%	2.7/sec	4.60	0.66	1741.6
TOTAL	200	25396	96	72376	21187.76	18.50%	2.7/sec	4.60	0.66	1741.6

For 250 users:

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	244	29949	145	42123	17279.23	45.90%	5.5/sec	11.41	0.90	2111.2
TOTAL	244	29949	145	42123	17279.23	45.90%	5.5/sec	11.41	0.90	2111.2

Edit Profile page:

For 150 users:

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	150	14714	110	36342	17574.69	0.00%	3.9/sec	5.77	1.22	1502.0
TOTAL	150	14714	110	36342	17574.69	0.00%	3.9/sec	5.77	1.22	1502.0

For 200 users:

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	200	24766	87	72354	19888.57	20.00%	2.7/sec	4.67	0.67	1767.8
TOTAL	200	24766	87	72354	19888.57	20.00%	2.7/sec	4.67	0.67	1767.8

For 250 users:

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	250	29284	89	72285	18613.61	42.00%	3.4/sec	6.86	0.61	2063.2
TOTAL	250	29284	89	72285	18613.61	42.00%	3.4/sec	6.86	0.61	2063.2

Search page:

For 150 users:

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	400	23128	88	72285	19776.24	26.25%	1.8/sec	3.31	0.42	1853.5
TOTAL	400	23128	88	72285	19776.24	26.25%	1.8/sec	3.31	0.42	1853.5

For 200 users:

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	200	23768	91	72323	19468.86	18.50%	2.7/sec	4.63	0.69	1751.3
TOTAL	200	23768	91	72323	19468.86	18.50%	2.7/sec	4.63	0.69	1751.3

For 250 users:

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	250	30293	93	72397	19322.21	41.20%	3.4/sec	6.82	0.63	2054.8
TOTAL	250	30293	93	72397	19322.21	41.20%	3.4/sec	6.82	0.63	2054.8

View-course:

For 150 users:

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	150	13118	83	36280	17320.89	0.00%	3.9/sec	5.91	1.37	1540.0
TOTAL	150	13118	83	36280	17320.89	0.00%	3.9/sec	5.91	1.37	1540.0

For 200 users:

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	200	24494	93	72364	20560.75	18.50%	2.7/sec	4.70	0.77	1780.6
TOTAL	200	24494	93	72364	20560.75	18.50%	2.7/sec	4.70	0.77	1780.6

For 250 users:

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	250	29682	90	72584	19170.98	41.20%	3.4/sec	6.88	0.70	2076.0
TOTAL	250	29682	90	72584	19170.98	41.20%	3.4/sec	6.88	0.70	2076.0

Instructor-dashboard:

For 150 users:

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	400	23381	90	72584	20185.55	25.75%	2.2/sec	4.07	0.56	1866.0
TOTAL	400	23381	90	72584	20185.55	25.75%	2.2/sec	4.07	0.56	1866.0

For 200 users:

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	600	23589	90	72584	20055.18	23.67%	2.1/sec	3.78	0.54	1835.4
TOTAL	600	23589	90	72584	20055.18	23.67%	2.1/sec	3.78	0.54	1835.4

For 250 users:

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	250	29728	88	72389	19182.98	42.00%	3.4/sec	6.88	0.64	2072.4
TOTAL	250	29728	88	72389	19182.98	42.00%	3.4/sec	6.88	0.64	2072.4

Edit-course:

For 150 users:

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	150	13129	92	36621	17324.21	0.00%	3.9/sec	5.84	1.35	1537.9
TOTAL	150	13129	92	36621	17324.21	0.00%	3.9/sec	5.84	1.35	1537.9

For 200 users:

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	350	19429	90	72464	19695.74	12.29%	2.3/sec	5.86	0.70	2661.8
TOTAL	350	19429	90	72464	19695.74	12.29%	2.3/sec	5.86	0.70	2661.8

For 250 users:

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	250	29509	97	72388	18961.64	40.80%	3.4/sec	6.87	0.70	2069.6
TOTAL	250	29509	97	72388	18961.64	40.80%	3.4/sec	6.87	0.70	2069.6
