Load Test Results for Load Test

Test properties

	Project name	REST Project 1
	Project description	
	Test name	Load Test
	Test duration	10:00

Load allocation

Load type	Rate
Allocation type	Relative
Allocation parameters	Percentage distribution of 1000 VU(s)

Load test overview

Scenarios in the test	1
Load agents used	0
Cloud agents used	0
Servers monitored	0
Test assertions (all levels)	2

Scenario details

New Scenario

Load profile		Ramp Up
Peak arriving users		1000
Ramp duration		10
Peak arriving users time units		Seconds
Target test case(s)		
https://library-flaskapi.herokuapp.com		5 enabled test step(s)

Test Execution Metrics

Test results

❌ Test run result		FAIL
Duration		00:05:00
Start time		19:51:16
End time		19:56:16
Maximum simultaneous virtual users		25

Information on target test cases

Test case runs, including loops	11003
Failed test cases	16
Failure ratio	0%

Test case runs, including loops (10987) — Failed test cases (16)
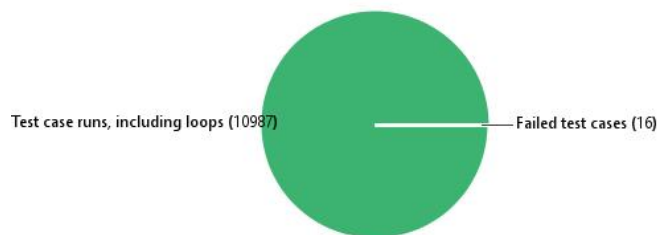
Load test assertions summary

Assertion checks	266
Failed assertions	2
Failure ratio	0%
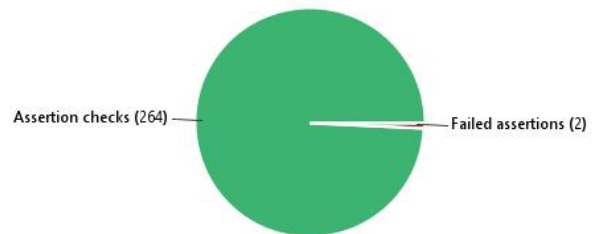
Assertion checks (264) — Failed assertions (2)

Executed test step(s) summary

Test step runs, including loops	54907
Failed test steps	16
Failure ratio	0%

Test step runs, including loops (54891) — Failed test steps (16)

Response time

|	
Longest	57659 ms
Shortest	37 ms
Average	571 ms
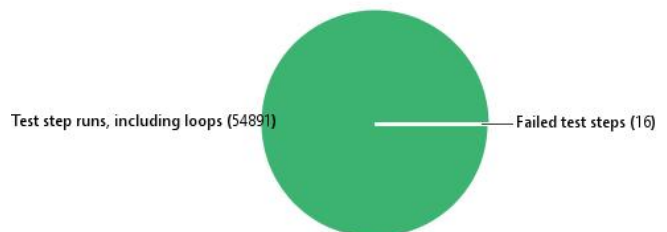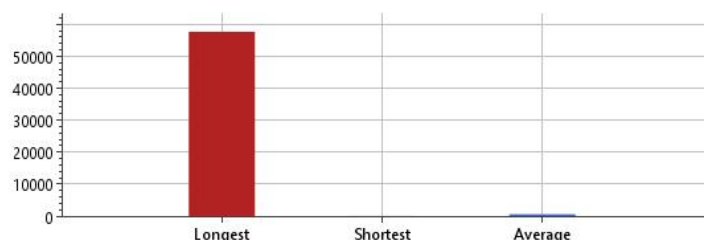
A great difference between response time values may indicate server issues.

Scenarios Summary

This section provides information about target test cases and assertions for each scenario in the load test.

Scenario name	Duration	Targets	Assertions checked	Assertions failed
New Scenario	00:05:00	11003	0	0

Overview Chart

Legend: ● VUs/s ● Time taken ● Err
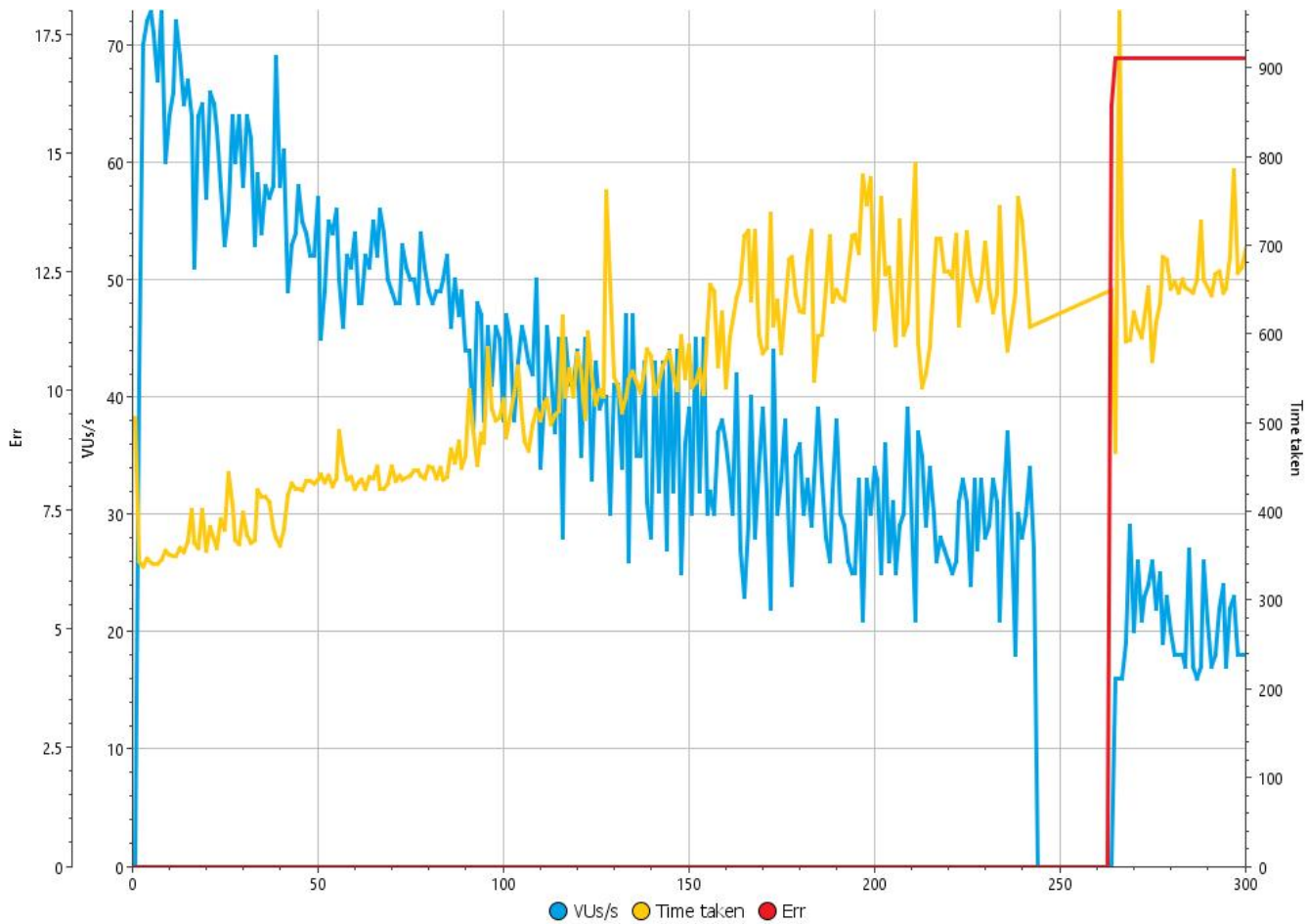
Test Step Metrics

//library-flaskapi.herokuapp.com TestSuite:TestCase

Test step	Min (ms)	Max (ms)	Median (ms)	Last (ms)	Count	TPS	Err	Err %
Get All Books	0	1458	161	0	11003	36	2	0
Get Book By Name	0	538	71	0	10984	36	5	0
Add Book	0	521	73	0	10978	36	3	0
Update Book	0	540	73	0	10973	36	3	0
Delete Book	0	614	73	0	10969	36	3	0
Test Case Level	37	57659	483	726	11003	37	16	0

Response time details

Test Step	Avg (ms)	75%	90%	95%	98%
Get All Books	201	265.00	366.00	417.00	506.92

Test Step Metrics

Response time details

Test Step	Avg (ms)	75%	90%	95%	98%
Get Book By Name	77	78.00	93.50	108.00	135.00
Add Book	80	81.00	96.00	111.00	146.00
Update Book	80	81.00	96.00	110.00	142.52
Delete Book	80	82.00	98.00	113.00	142.60
Test Case Level	571	611.00	713.00	794.00	912.92

Top 5 Test Cases

Test case	Time taken (ms)	Start time	Size (bytes)
https://library-flaskapi.herokuapp.com TestSuite:TestCase	37	19:56:16	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	38	19:56:16	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	39	19:56:16	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	89	19:56:16	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	91	19:56:16	0

Bottom 5 Test Cases

Test case	Time taken (ms)	Start time	Size (bytes)
https://library-flaskapi.herokuapp.com TestSuite:TestCase	57659	19:55:18	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	57584	19:55:19	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	57582	19:55:19	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	57573	19:55:19	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	57505	19:55:19	0

Top 5 Test Steps

Test case	Time taken (ms)	Start time	Size (bytes)
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get Book By Name	0	19:55:40	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get Book By Name	0	19:55:40	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get Book By Name	0	19:55:40	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Delete Book	0	19:55:40	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Delete Book	0	19:55:40	0

Bottom 5 Test Steps

Test case	Time taken (ms)	Start time	Size (bytes)
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get All Books	1458	19:54:08	204258
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get All Books	1148	19:54:18	212458
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get All Books	1094	19:53:59	190308

Bottom 5 Test Steps

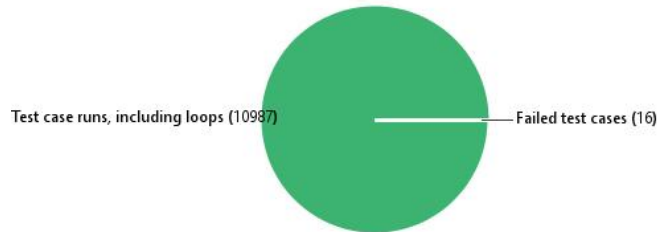| Test case	Time taken (ms)	Start time	Size (bytes)
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get All Books	979	19:54:18	212458
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get All Books	923	19:54:52	238358

Load Test Results for New Scenario Scenario

Scenario overview

Load profile	Ramp Up
Scenario targets	1
Simulated users	Ramp up to 1000 arriving users per Sec in 10 seconds.

Information on target test cases

Test case runs, including loops	11003
Failed test cases	16
Failure ratio	0%

Test case runs, including loops (10987) — Failed test cases (16)

Executed test step(s) summary

Test step runs, including loops	54907
Failed test steps	16
Failure ratio	0%

Test step runs, including loops (54891) — Failed test steps (16)
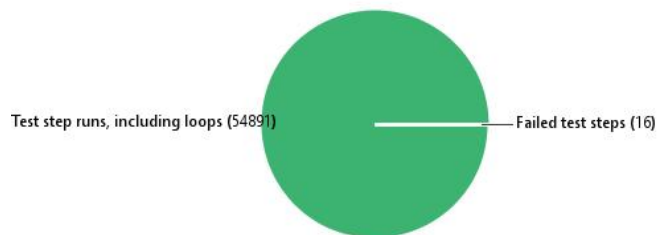
Response time

Longest	57659 ms
Shortest	37 ms
Average	571 ms
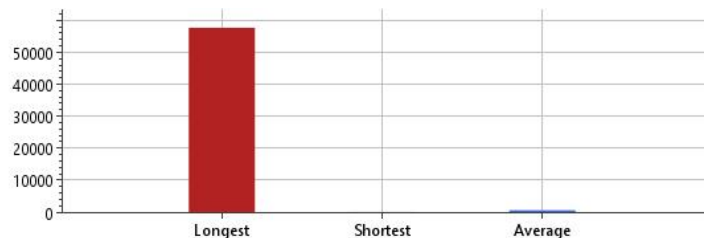
A great difference between response time values may indicate server issues.

Targets Metrics

Target	Requests	Min time (ms)	Max time (ms)	Median time (ms)	Std dev (ms)	Err	Err %
https://library-flaskapi.herokuapp.com TestSuite:TestCase	11003	37	57659	483	1661	16	0

Response time details

Target	Avg (ms)	75%	90%	95%	98%
https://library-flaskapi.herokuapp.com TestSuite:TestCase	571	611.00	713.00	794.00	912.92

Top 5 Test Case Executions

Test case	Time taken (ms)	Start time	Size (bytes)
https://library-flaskapi.herokuapp.com TestSuite:TestCase	37	19:56:16	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	38	19:56:16	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	39	19:56:16	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	89	19:56:16	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	91	19:56:16	0

Bottom 5 Test Case Executions

Test case	Time taken (ms)	Start time	Size (bytes)
https://library-flaskapi.herokuapp.com TestSuite:TestCase	57659	19:55:18	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	57584	19:55:19	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	57582	19:55:19	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	57573	19:55:19	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase	57505	19:55:19	0

Top 5 Test Step Executions

Test case	Time taken (ms)	Start time	Size (bytes)
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get Book By Name	0	19:55:40	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get Book By Name	0	19:55:40	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get Book By Name	0	19:55:40	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Delete Book	0	19:55:40	0
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Delete Book	0	19:55:40	0

Bottom 5 Test Step Executions

Test case	Time taken (ms)	Start time	Size (bytes)
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get All Books	1458	19:54:08	204258
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get All Books	1148	19:54:18	212458
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https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get All Books	979	19:54:18	212458

Bottom 5 Test Step Executions

| Test case	Time taken (ms)	Start time	Size (bytes)
https://library-flaskapi.herokuapp.com TestSuite:TestCase->Get All Books	923	19:54:52	238358

Execution dispersion

This graph shows when the 5 fastest and 5 slowest test case executions happened. The clustered values show the time when the issues occurred during the test run. For example, a lot of values at the beginning of the test might mean that you need a longer warm-up time for the server. Ideally, the values should be distributed evenly throughout the test duration.

Statistics

Stress Statistics
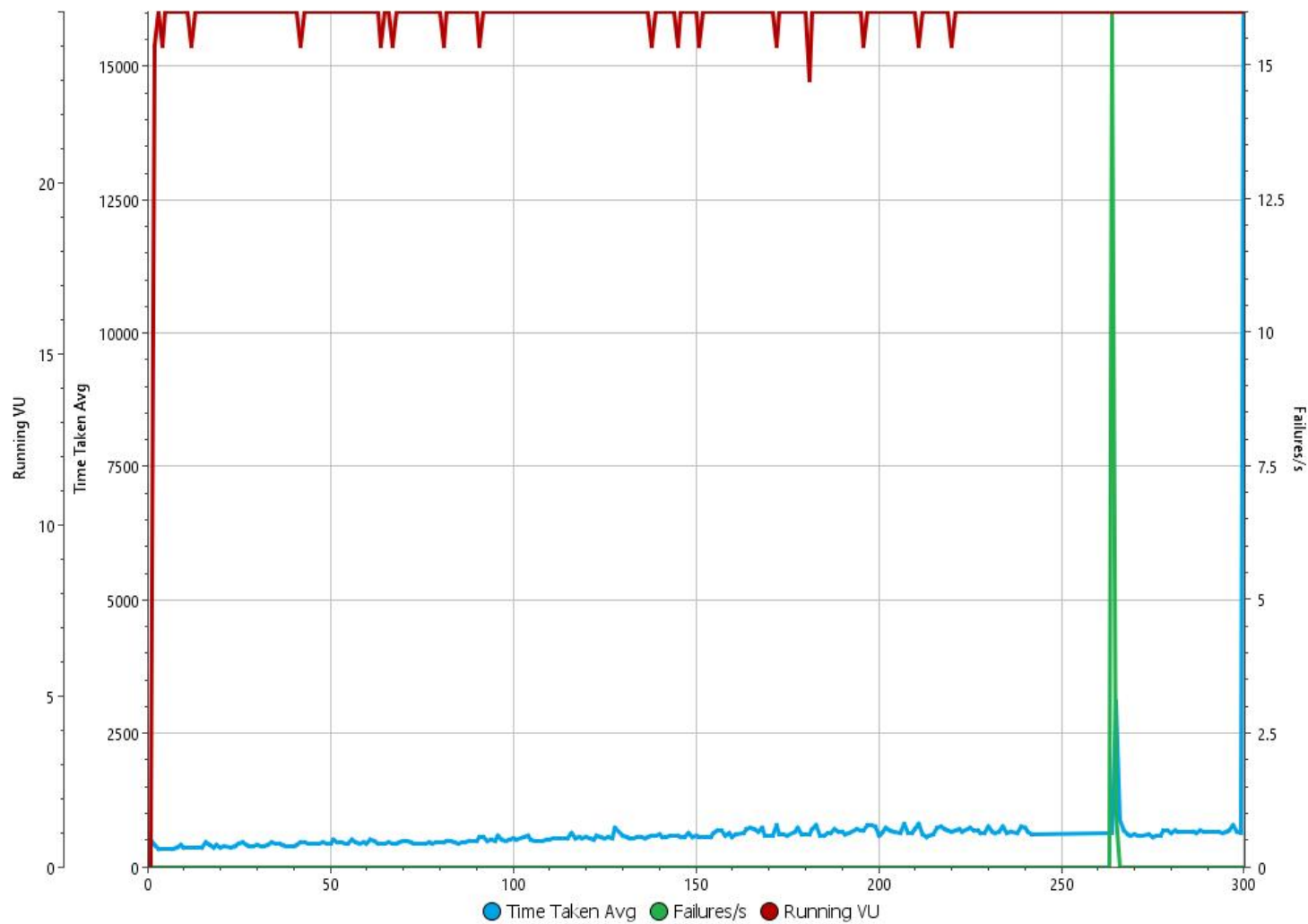
Terms Used in This Report

Rate load type

When you use the Rate load type, the load profile specifies how many "users" visit the tested server during a time period. The profile does not specify the number of concurrent virtual users on the server, it specifies the number of users arriving to the server.

Load allocation

In LoadUI, there are several ways to specify the load simulated by each scenario. This is called Load allocation. You can enter the total number of users and select what portion of them runs each scenario (Relative allocation), run the same number of virtual users for all scenarios (Equal allocation) or enter the number of users in each scenario individually (Per scenario allocation).

Ramp Up profile (Rate)

This load profile linearly increases the number of arriving virtual users during the load test run.

Agent

LoadUI uses agents to distribute load to other computers. Load agents run on a physical computer where the LoadUI Agent application is installed. Cloud agents run in the cloud.

Failure

Failure is a generic term for all issues that cause a simulated user to fail. For example, a test can have failures when load test assertions fail or a test step does not receive a response.

Error

SoapUI test step and test case failures that happen during the load test run are called errors.

Target

LoadUI runs SoapUI test cases to simulate user behavior. The test cases simulated in a scenario are called targets.

TPS

For test steps, number of times the test step was executed during the second.
For target test cases, the number of virtual users that finished the test case execution at each second.

Last

The time spent on the last transaction of the test.

Count

The number of times the test step was run during the test.