

Dear Sir/Madam,

I've completed Load testing and Stress testing on website <https://www.banglapuzzle.com/>.

Volume testing is not possible since database access is not given.

In the Figure: 1 test Plan and thread groups and samplers are visible.

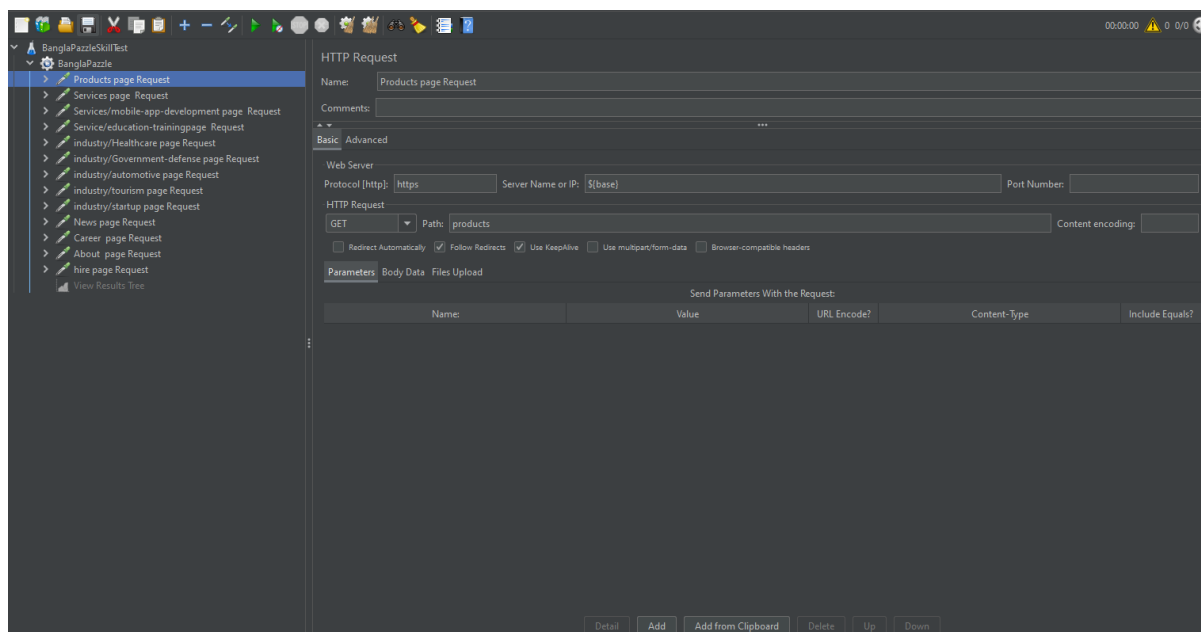


Figure:1

## Load testing Report

Concurrent Request	Loop	Avg TPS for Total Samples	Total Concurrent API request	Error Rate
10	10	9	520	0
30	10	15.8	1560	0
45	10	26.5	2340	0
50	10	30	2599	0.38%
60	10	33	3117	0.42%
70	10	29	3623	1.02%

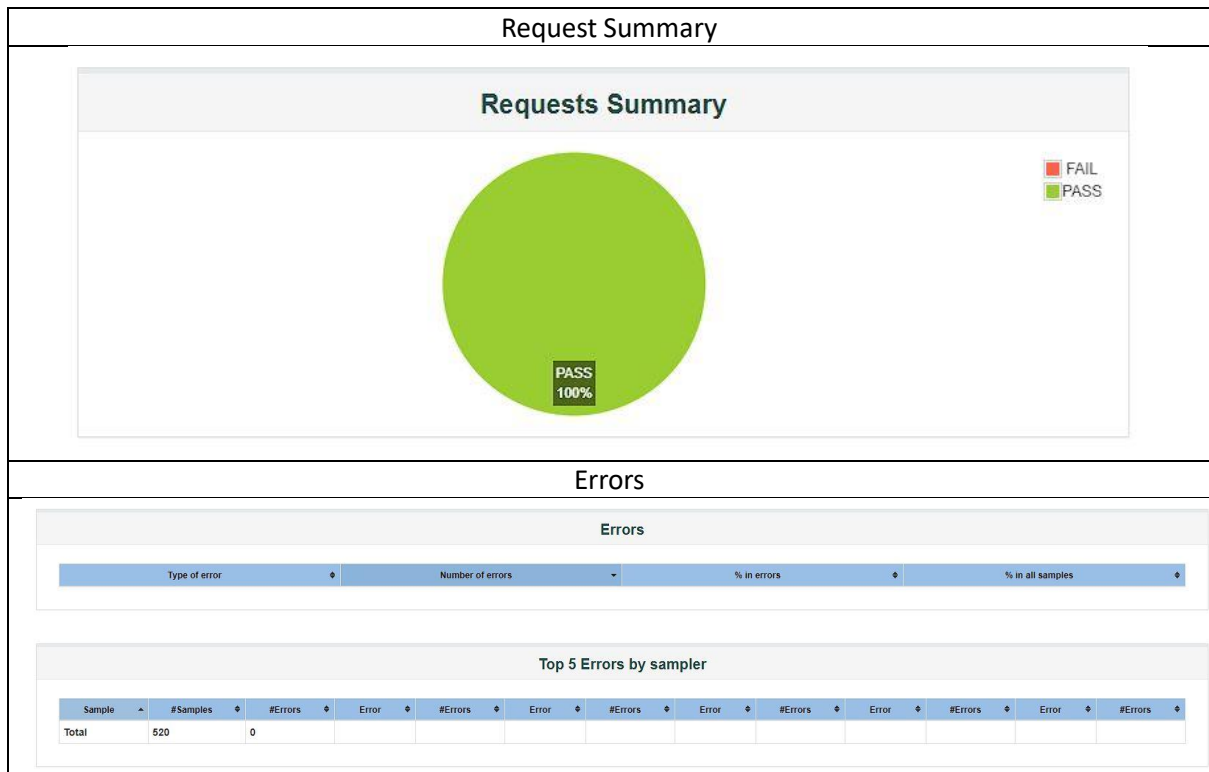
## Summary:

While executed 50 concurrent requests and 2599 total Concurrent API request, 82 request got connection timeout and error rate is 0.38%.

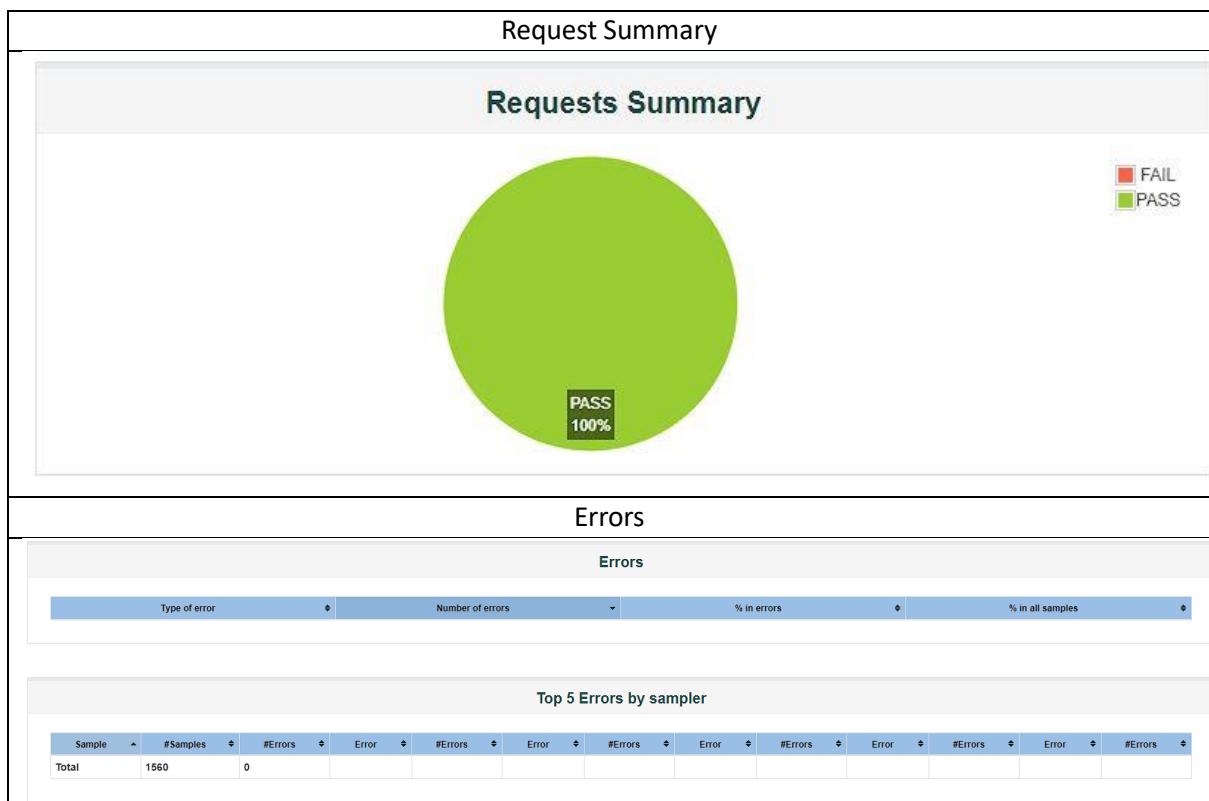
Server can handle almost concurrent 2340 API call with almost zero (0) error rate.

## HTML Report

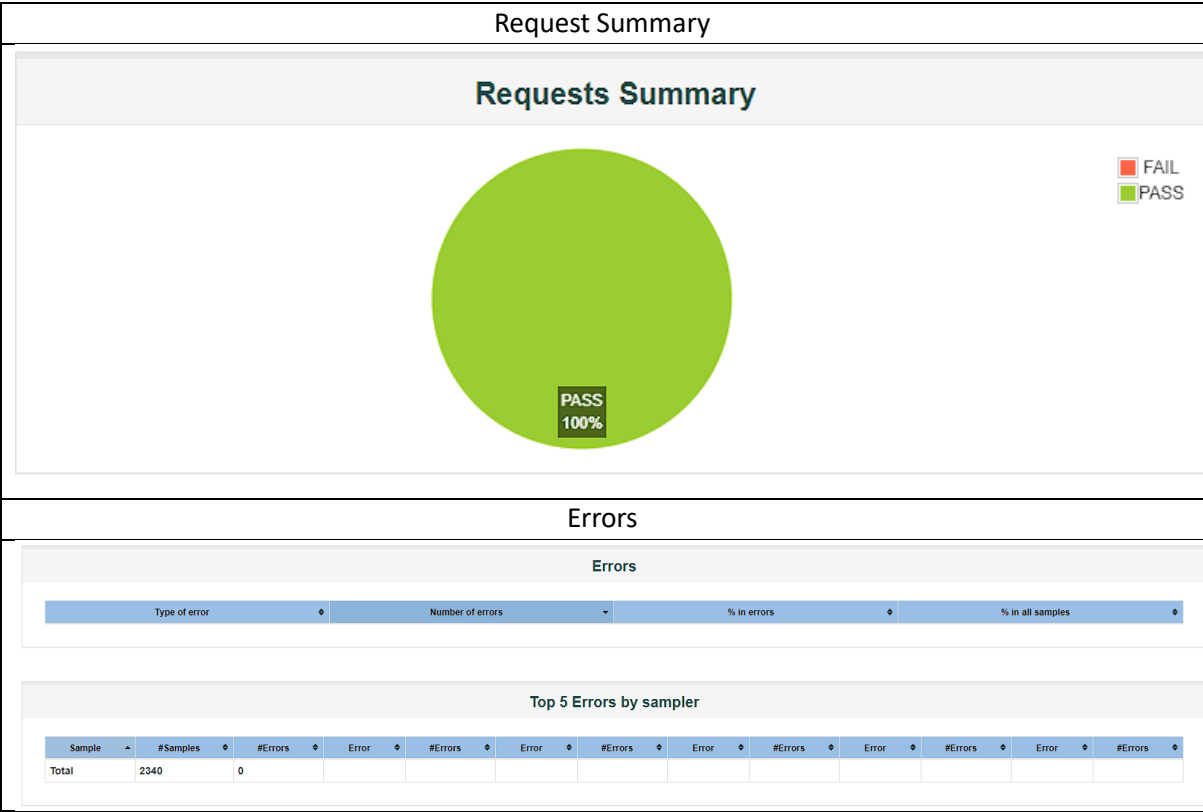
Number of Threads 10; Ramp-Up Period 10s



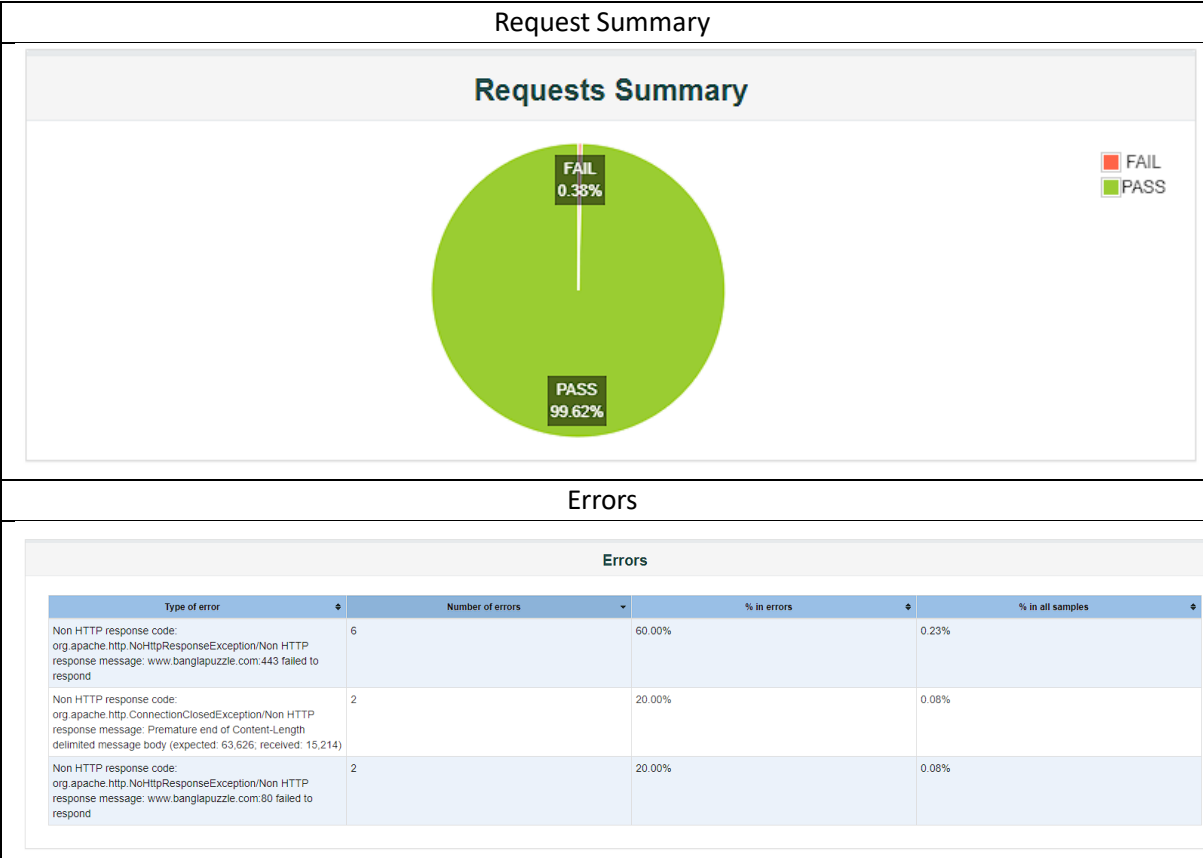
Number of Threads 30; Ramp-Up Period 10s



Number of Threads 45; Ramp-Up Period 10s



Number of Threads 50; Ramp-Up Period 10s



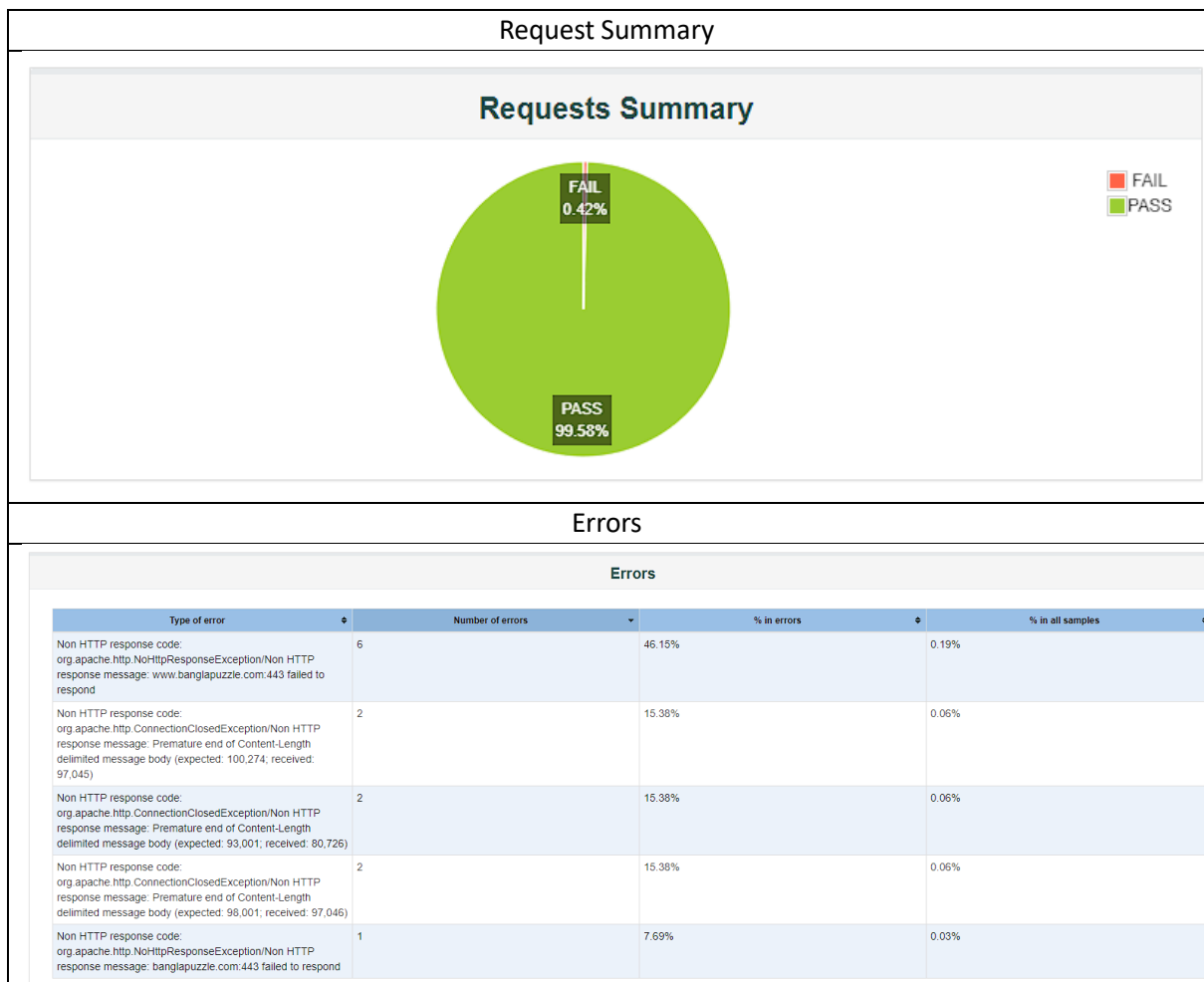
## Stress Testing

Stress Testing is a type of software testing that evaluates how the software responds under extreme conditions. It verifies how robust a system will be, and its response capabilities and error handling when it is subjected to conditions where its normal functioning can be compromised.

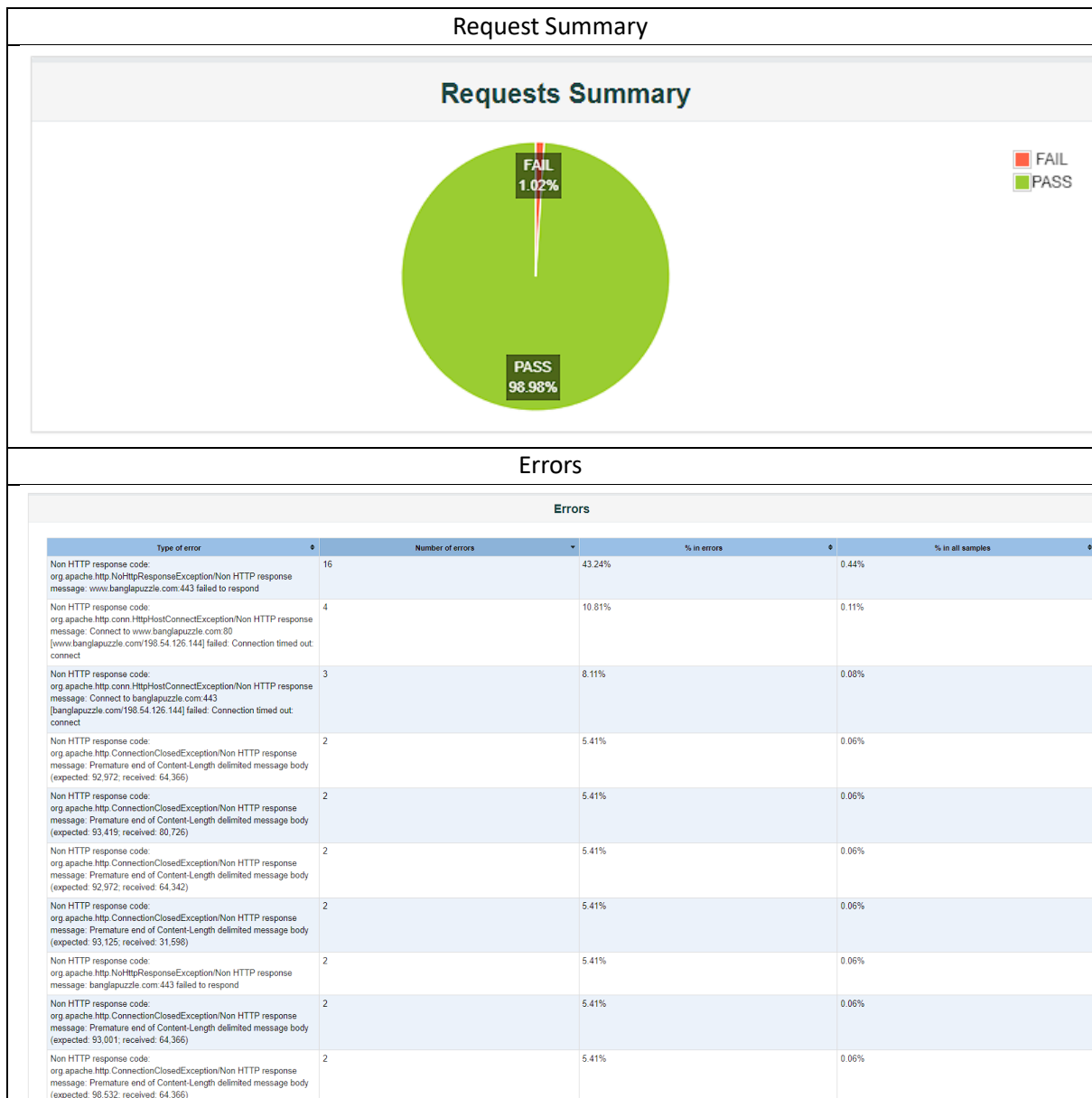
Concurrent Request	Loop	Avg TPS for Total Samples	Total Concurrent API request	Error Rate
60	10	33	3117	0.42%
70	10	29	3623	1.02%

## HTML Report

Number of Threads 60; Ramp-Up Period 10s



Number of Threads 70; Ramp-Up Period 10s



## Volume testing

Volume Testing is a type of Software Testing, where the software is subjected to a huge volume of data. It is also referred to as flood testing. Volume testing is done to analyse the system performance by increasing the volume of data in the database.

For example, testing the music site behaviour when there are millions of users to download the song.

Volume testing is not possible since database access is not given.