Performance Test Report - www.flipkart.com

Objective:

To access the performance and response behaviour of https://www.flipkart.com/ with a load test, an understand the platform and how the web user experience is affected on load.

Results Overview:

The website experienced gradual performance degradation with average response time 45sec with 95% leading to 78sec. Below are my observations,

- 1. When subjected for heavy load for short duration the website failed to handle concurrent requests.
- 2. The high response time could be due to the domain server being hosted in Asia.

Test Details

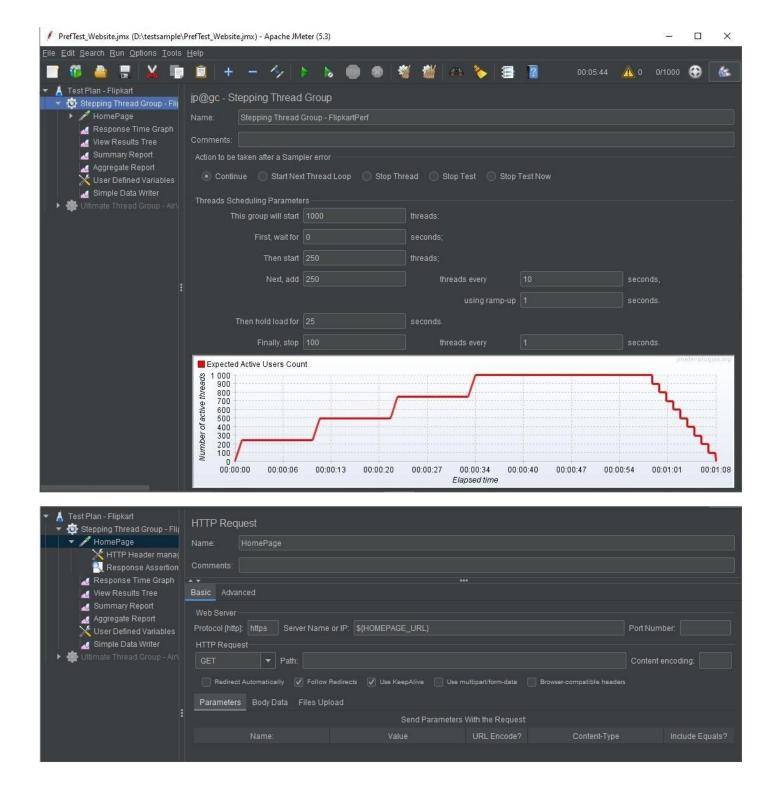
Tool: Apache JMeter 5.3 (with custom plugin for thread groups)

Work Load model

The load injection model was straightforward as given in challenge. I have performed this in step up manner to avoid a major burst send into their server.

The load was done with 1000 threads each as shown below. No specific through put was set

The load model is called a step-up model with each step comprises of 250 threads each step holding load for 10 second duration and on final step with 1000 thread, the load was injected for 25 second duration as instructed in challenge.



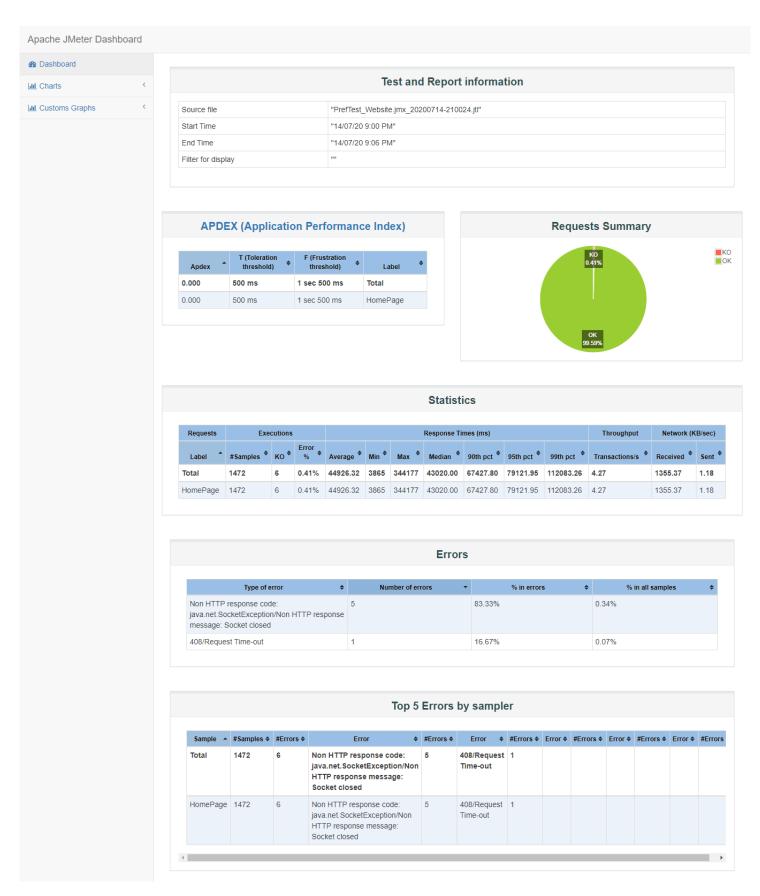
Response Time Overview

Average response time observed ~45sec, with Throughput load 4.2 transactions per second across the duration in whole which is very high for high volume transactional website.

From below table, it can be observed that injected samples are 1472 in whole.

Request Name	Samples	Average (ms)	90% Line (ms)	95% Line (ms)	Error %	Throughput (TPS)
HomePage	1472	44926	67376	78092	0.41%	4.27109
TOTAL	1472	44926	67376	78092	0.41%	4.27109

Below Response time and latency graph with liner to time clearly indicates a server side resource constraint, this could be due to gateway restricting the connections to designated server.

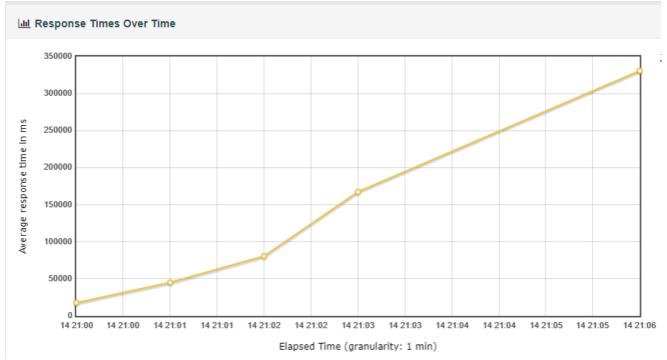


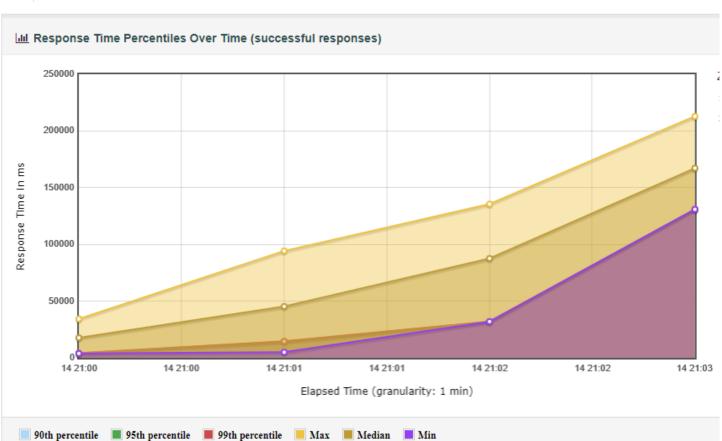
Error Analysis

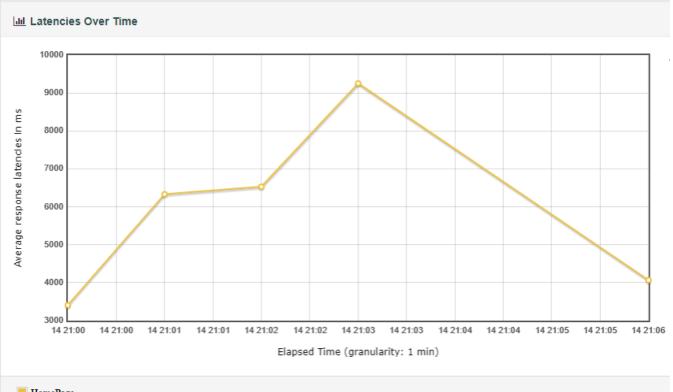
A **408** Request Timeout message is an HTTP status code that is returned to the client when a **request** to the server takes longer than the server's allocated **timeout** window.

In this case the server has terminated the connection request.

Test and Report information		
File:	"PrefTest_Website.jmx_20200714-210024.jtl"	
Start Time:	"14/07/20 9:00 PM"	
End Time:	"14/07/20 9:06 PM"	
Filter for display:	IIII	







HomePage

	Test and Report information		
File:	"PrefTest_Website.jmx_20200714-210024.jtl"		
Start Time:	"14/07/20 9:00 PM"		
End Time:	"14/07/20 9:06 PM"		
Filter for display:	ш		

