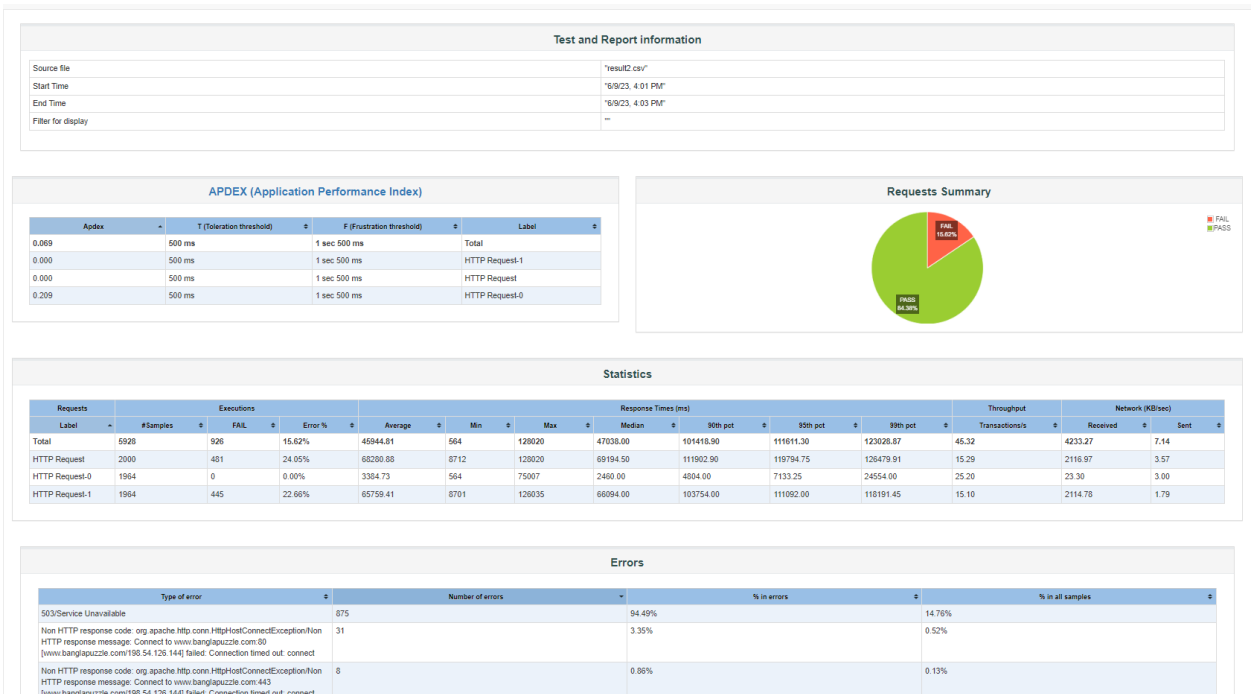


Task1

1. Load Testing:

I have done load testing of the given website <https://banglapuzzle.com/>. It has a total of three phases so that we can have a clear idea about its performance. At first Threads(user) was 1000 and the time was 4 seconds at that point error rate was 0.0% after that I increase the Thread(user) to 500 more and at that point error rate was 0.08%. Finally, in the third phase, I make the Thread(user) into 2000 at that point error rate was 11.38%. I have also made the summary of this load testing.

The screenshot of the summary:



Requests		Executions				Response Times (ms)								Throughput		Network (KB/sec)		
Label	#	# Samples	FAIL	Error %	Average	Min	Max	Median	90th pct	95th pct	99th pct	Transactions/s	Received	Sent				
Total	5928	926	15.62%	45944.81	564	128020	47038.00	101416.90	111611.30	122028.87	46.32	4233.27	7.14					
HTTP Request	2000	481	24.05%	60280.88	8712	128020	69194.50	111902.90	119794.75	126479.91	15.29	2116.97	3.57					
HTTP Request-0	1964	0	0.00%	3384.73	564	75007	2460.00	4804.00	7133.25	24554.00	25.20	23.30	3.00					
HTTP Request-1	1964	445	22.66%	65759.41	8701	126035	66094.00	103754.00	111092.00	118191.45	15.10	2114.78	1.79					

Errors				
Type of error	Number of errors	% in errors	% in all samples	
503/Service Unavailable	875	94.49%	14.76%	
Non HTTP response code: org.apache.http.conn.HttpHostConnectException/Non HTTP response message: Connect to www.banglapuzzle.com:80 [www.banglapuzzle.com/198.54.126.144] failed: Connection timed out: connect	31	3.35%	0.52%	
Non HTTP response code: org.apache.http.conn.HttpHostConnectException/Non HTTP response message: Connect to www.banglapuzzle.com:443 [www.banglapuzzle.com/198.54.126.144] failed: Connection timed out: connect	8	0.86%	0.13%	
Non HTTP response code: javax.net.ssl.SSLHandshakeException/Non HTTP response message: Remote host terminated the handshake	8	0.86%	0.13%	
Non HTTP response code: org.apache.http.NoHttpResponseException/Non HTTP response message: www.banglapuzzle.com:80 failed to respond	4	0.43%	0.07%	

Top 5 Errors by sampler												
Sample #	#Samples	#Errors	Error	#Errors	Error	#Errors	Error	#Errors	Error	#Errors	Error	#Errors
Total	5928	926	503/Service Unavailable	875	Non HTTP response code: org.apache.http.conn.HttpHostConnectException/Non HTTP response message: Connect to www.banglapuzzle.com:80 [www.banglapuzzle.com/198.54.126.144] failed: Connection timed out: connect	31	Non HTTP response code: org.apache.http.conn.HttpHostConnectException/Non HTTP response message: Connect to www.banglapuzzle.com:443 [www.banglapuzzle.com/198.54.126.144] failed: Connection timed out: connect	8	Non HTTP response code: javax.net.ssl.SSLHandshakeException/Non HTTP response message: Remote host terminated the handshake	8	Non HTTP response code: org.apache.http.NoHttpResponseException/Non HTTP response message: www.banglapuzzle.com:80 failed to respond	4
HTTP Request	2000	401	503/Service Unavailable	438	Non HTTP response code: org.apache.http.conn.HttpHostConnectException/Non HTTP response message: Connect to www.banglapuzzle.com:80 [www.banglapuzzle.com/198.54.126.144] failed: Connection timed out: connect	31	Non HTTP response code: org.apache.http.NoHttpResponseException/Non HTTP response message: www.banglapuzzle.com:80 failed to respond	4	Non HTTP response code: org.apache.http.conn.HttpHostConnectException/Non HTTP response message: Connect to www.banglapuzzle.com:443 [www.banglapuzzle.com/198.54.126.144] failed: Connection timed out: connect	4	Non HTTP response code: javax.net.ssl.SSLHandshakeException/Non HTTP response message: Remote host terminated the handshake	4
HTTP Request-1	1964	445	503/Service Unavailable	437	Non HTTP response code: org.apache.http.conn.HttpHostConnectException/Non HTTP response message: Connect to www.banglapuzzle.com:443 [www.banglapuzzle.com/198.54.126.144] failed: Connection timed out: connect	4	Non HTTP response code: javax.net.ssl.SSLHandshakeException/Non HTTP response message: Remote host terminated the handshake	4				

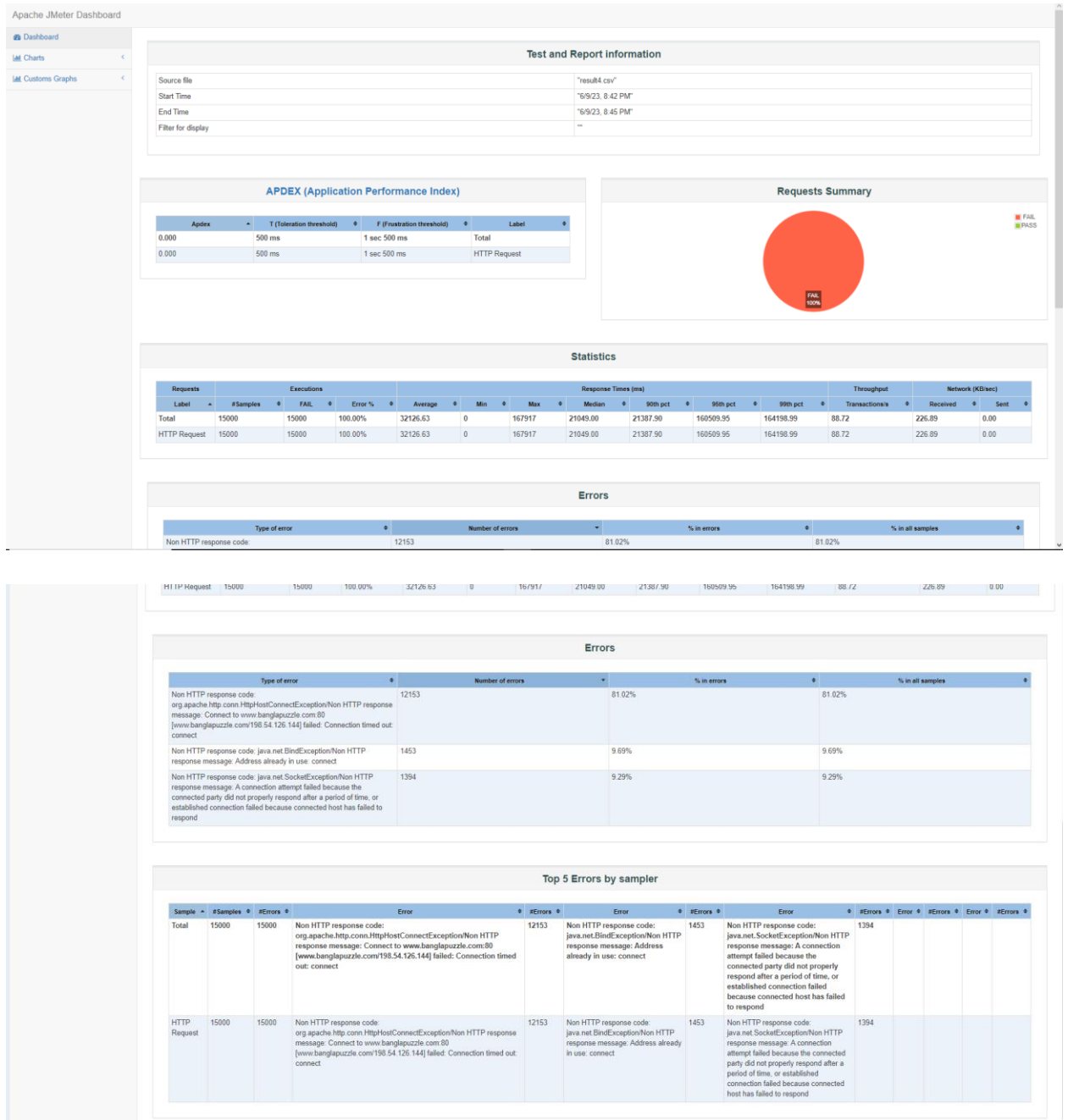
The browser html file of this screenshot has been also attached to the Task1 file and the file name is reports2.

This Load testing Excel file is also attached here:
[Load testing Excel](#)

2. Stress testing:

I have done Stress testing of the given website <https://banglapuzzle.com/>. In the stress testing, we need to increase/decrease the threads of the application that's why It has a total of three phases. At first Thread(user) was 10000 and the time was 2 seconds at that point error rate was 100.00% after that I decrease the Thread(user) and make it 100 and at that point, the error rate was 97.80%. Finally, in the third phase, I make the Thread(user) into 15000 at that point error rate was 100.00%. I have also made the summary of this stress testing.

The screenshot of the summary:



The browser html file of this screenshot has been also attached to the Task1 file and the file name is reports4.

[This Stress testing Excel file is also attached here:](#)
[Stress testing Excel](#)