

DECS PROGRAMMING ASSIGNMENT 4

Name - ABHISHEK DIXIT

Roll no. - 22M0761

System Configuration -

1. Device - Lenovo Ideapad Slim 3
2. Processor - AMD Ryzen 5 5500u
3. Cores - $6 * 2 = 12$
4. RAM - 8 GB
5. SSD - 512 GB
6. Operating System - Ubuntu 22.04
7. Architecture - 64-bit

Load Test Configuration -

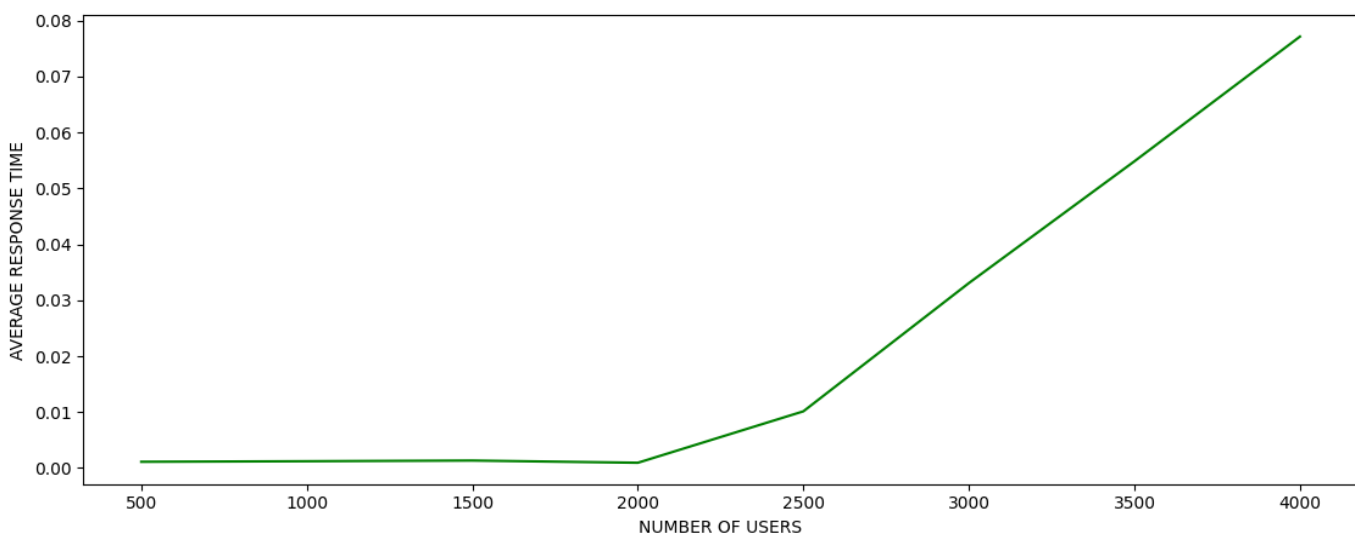
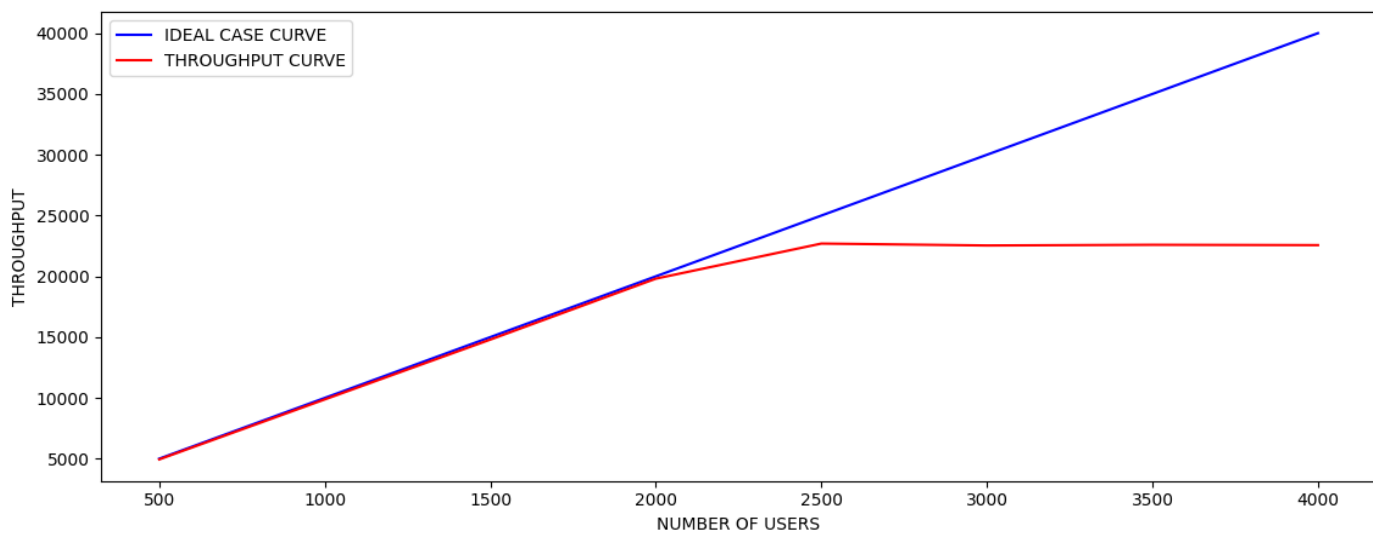
1. Hostname: localhost
2. Port: 7051
3. Think Time: 0.100000 s
4. Test Duration: 60 s
5. Number of users: 500 to 4000 (8 iterations)

Readings observed -

Iteration no.	#Users	Throughput	Avg. Response Time (s)
1	500	4944.682129	0.001119
2	1000	9877.492188	0.001219
3	1500	14798.030273	0.001340

4	2000	19809.099609	0.000944
5	2500	22695.509766	0.010138
6	3000	22538.757812	0.033067
7	3500	22594.193359	0.054836
8	4000	22567.292969	0.077125

Load test Graph -



Observed that the throughput curve plateaus after reaching approx. 22600 requests/second. Also, the average response time increases drastically at the same point. By observing the throughput, it can be concluded that the server got saturated around the 2260 users mark.