Performance Report

Assignment -1

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Instances		Avg. Response Time (ms)	Avg. Server Throughput(ops/s)
1	Seller	6.4430	183
	Buyer	17.634	208
10	Seller	50.4231	26
	Buyer	216.585	31
100	Seller	530.2340	3
	Buyer	1514.912	8

Seller: For evaluating the seller's metrics, we are doing the 1000 client calls to 'getProducts'. In this run, about 90 computations of Average Response Times are collected, and 1 value of Avg. Server Throughput is collected. For multiple clients, all values are averaged. The performances are much slower than socket implementation as more clients are handled simultaneously. This is because REST creates a new connection with each request and that adds a considerable overhead. For a hundred clients, only 3 operations are executed per second by the system which is very slow.

Buyer: Similar to the seller's metrics, to evaluate the buyer's metrics, we are doing the following 1000 client operations: 1000 'getSellerRating'. In this run, 1 Average Server Throughput is collected. For multiple clients all values are averaged. Both the Average Response Time and Average Server Throughput metrics show that the performances are much slower in REST than the web sockets. As mentioned for Seller, the REST creates a new connection for every request and this adds to the overhead. As the number of clients increases, the performance have degraded.