Estimated Load & Real Performance

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# Estimated Load

Based on the resale platform ‘StockX’ average traffic, and interactions per visit the estimated load of the system is determined.

## StockX Traffic & Engagement per Month:

* Total Visits : ~30 million
* Avg Visit Duration: ~00:03:29
* Interactions per Visit: ~4.43

## Interactions per minute:

* Minutes in a month: 43,800
* Visits per month: 30,000,000
* Interactions per visit: 5

Calculation: (30000000 / 43800) \* 5 = 3425

## StockX estimated requests per minute: 3425

# Real Performance and comparison

Based on the testing done using Jmeter tool it was determined that the Client application can handle more than 7000 requests per minute and the API more than 21000 requests per minute.

Based on the real performance the system can handle the usage of more than 50,000,000 users per month.

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| --- | --- | --- | --- | --- |
| Estimated users/month | Estimated interactions/visit | Estimated requests/minute | Possible users/month | Possible requests/minute |
| ~30,000,000 users/month | ~4.43 | ~3425 | ~61,000,000 users/month | >7000 requests/minute |