**Documentation of Load Test Iterations Performed on the API Endpoint**

These screenshots showcase the behavior of the app when users are using the API endpoint. The performance of the app in terms of the response time and total request per second (RPS) was noted as the number of users of the application increases.

* I started the load test simulation with 20 users and a RPS of 3.1 was obtained while the median response time was 1200ms with no recorded failure.
* When the total users were increased to 100, the median response time remained the same (1200ms) and the RPS increased to 26.5 with no recorded failure.
* As the number of users increases, the RPS also increases while the median response time remained constant with no failure been recorded.
* A failure report was obtained when the number of users on API increased to 424. At this rate, the RPS was 106.7 with a median response time of 920ms. The app begins to show degrading signs at this stage and the failure was persistence as revealed in the attached report.
* At 500 users which was the last test performed, the median response time begin to fluctuate, the RPS remained constant at 120 and 11% failure was recorded so far.

**Fig 1.** Report showing request, response time and failure statistics of the load test

A screenshot of a computer

Description automatically generated with medium confidence

**Fig 3.** Chart showing total response per second, response times and number of users

Graphical user interface, chart

Description automatically generated