

Statistics

postTweet API calls/second:	3663
getTimeline API calls/second:	45.5

Language: python 3.11

libraries: pymysql, cryptography, logging, datetime, argparse, csv, sys, time, random

Database: MySQL 8.0.31

Engine: InnoDB/default

Indexing: Yes, indexed user_id, tweet_ts

Procedures: Yes, implemented procedure for get_timeline

Computer stats: intel i7 11700 2.50GHz, 32G RAM

Processor, RAM and other hardware such as disk speed affected performance. There was a noticeable difference in the time it took to load tweets on my desktop (custom built, i7 11th generation, 32G Corsair RAM, M.2 drive) compared to my laptop (Dell XPS, 16G RAM, i7 chip). ORDER BY also seemed to slow down the queries, but it lead to less programmatic work having to be done. I also chose to index the user_id and tweet timestamp, choosing different indices also could have impacted performance.