

Testing the API

Report on Testing the Response Time of the API Under Concurrent Calls. This report aims to evaluate the performance of the sentiment analysis API by testing its response time under concurrent calls. The primary objective is to ensure that the API can handle multiple requests simultaneously without exceeding the specified response time limit of 200 ms per message.

Test Plan using Postman:

1. Single User Test:

- Send a single request to the API to establish a baseline response time.

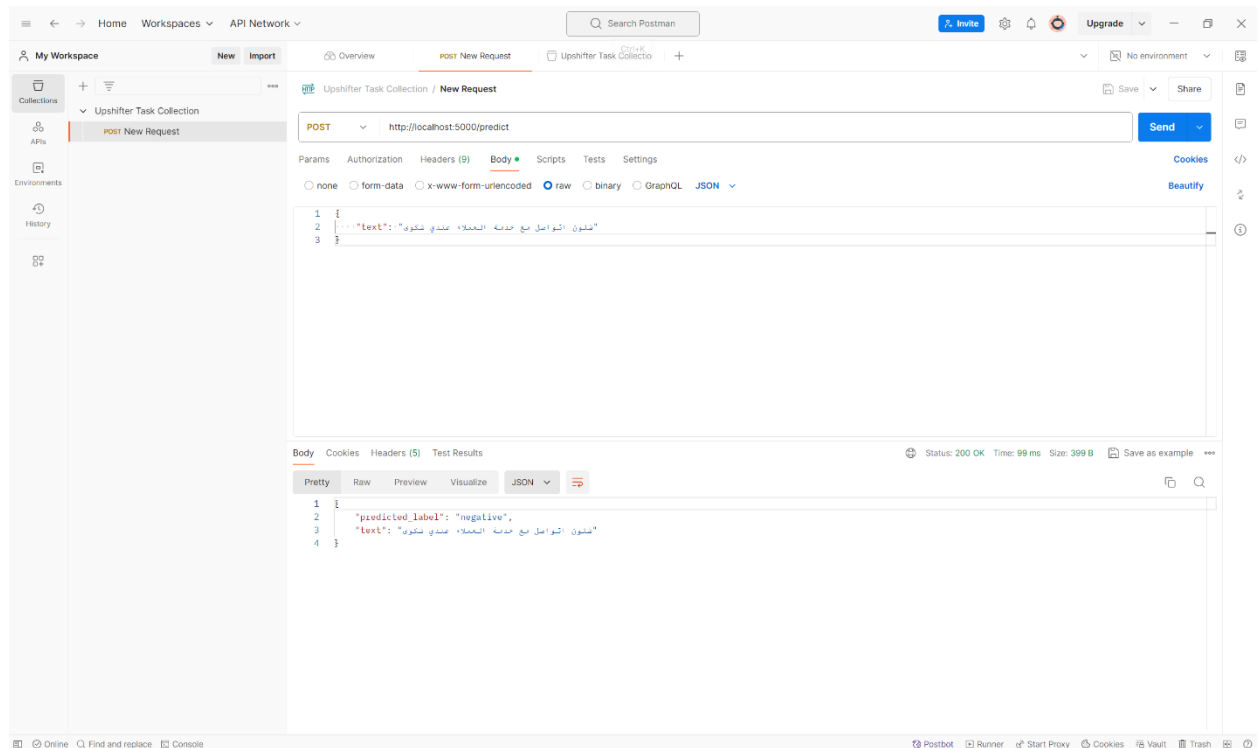
2. Concurrent User Test:

- Simulate multiple users (4 concurrent users) sending requests to the API simultaneously.
- Measure the average response time, maximum response time.

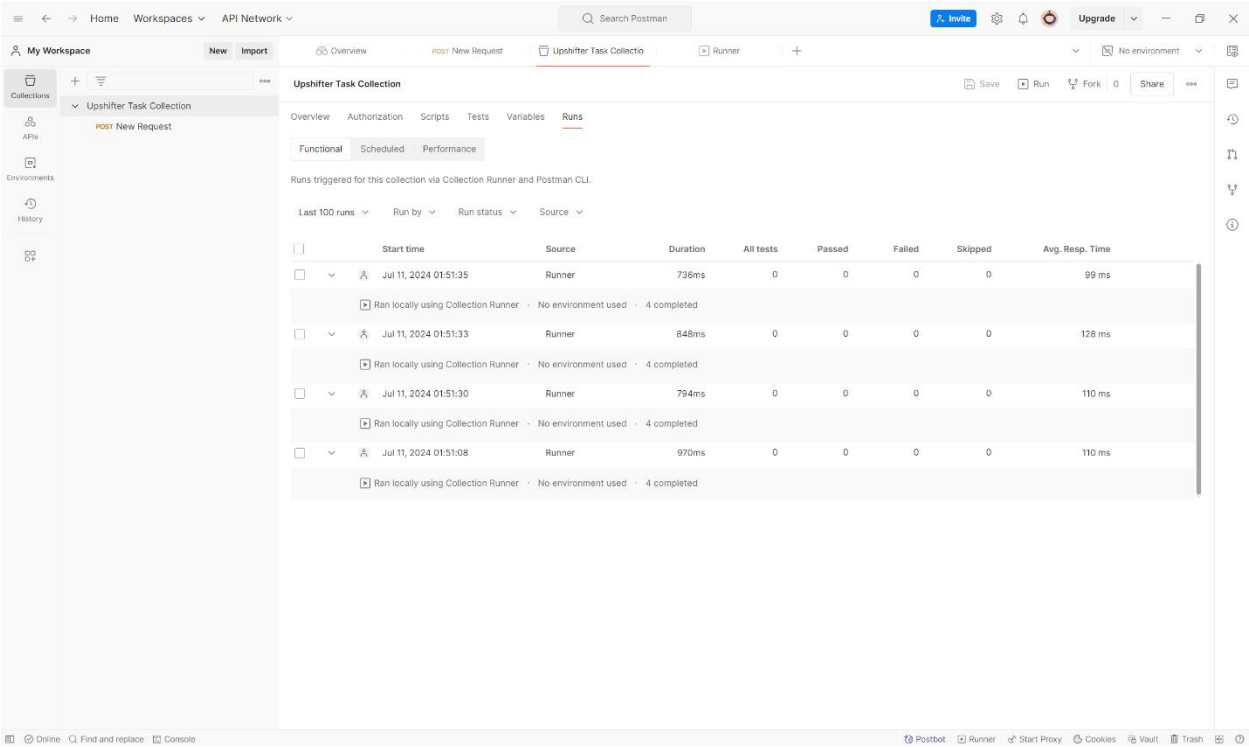
Results:

Single User Test

- **Response Time: 99 ms**



Concurrent User Test



API interface Testing:

Results:

Sentiment Analysis

Enter text for analysis:

الف مبروك، ويستاهلون وعقبالي بإذن الله 🙏🙏🙏🙏

Analyze

Analysis Result: positive