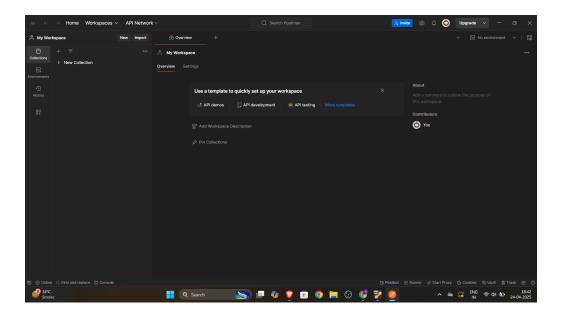
Ritesh Jha | SY-IT(B3) | 16010423076 | Cyber Honors

Compensation-3 | Date : 24 - April - 2025

API Testing

For this Simulation we will be using:

Postman

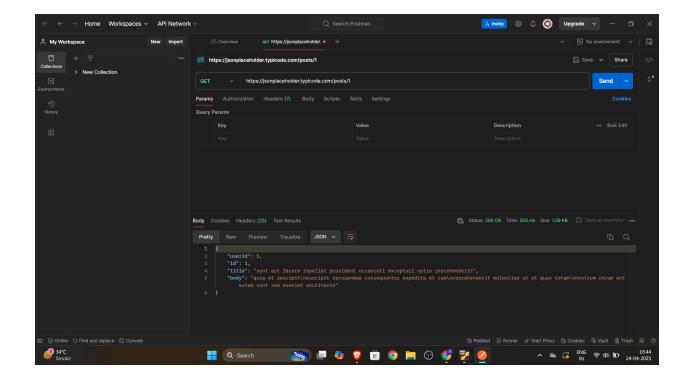


• A free dummy API:

https://jsonplaceholder.typicode.com/posts

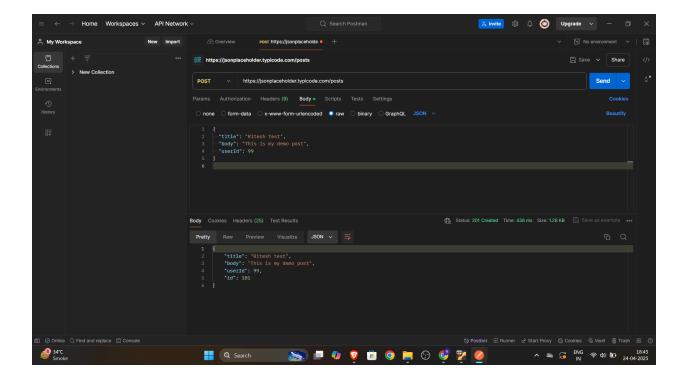
1. GET Request – View Data

- o I first launched Postman and set up a new HTTP request with the GET method.
- The URL I used was https://jsonplaceholder.typicode.com/posts/1, which returns data for a specific post.
- After hitting "Send," I got a JSON response with information about a post, like its userId, id, title, and body.



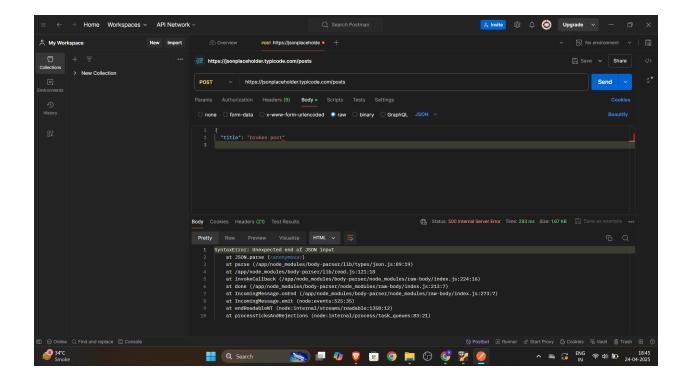
2. POST Request - Send Data

- I switched the method to POST and set the URL to https://jsonplaceholder.typicode.com/posts.
- In the "Body" tab, I selected "raw" and chose JSON format.
 I entered a JSON object to create a new post, containing the title, body, and userId.
- When I clicked "Send," I got a response indicating that the post was created, including a new id (in this case, 101).



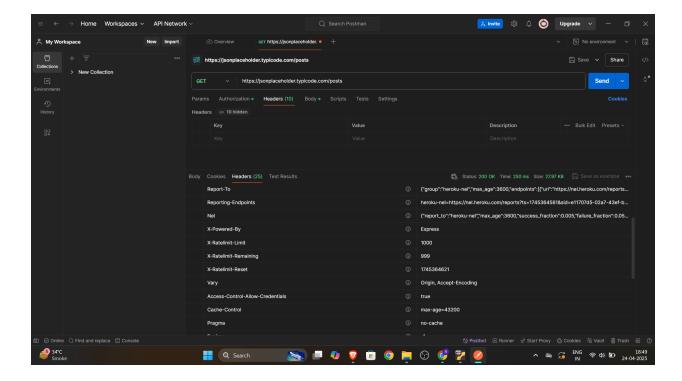
3. Negative Test – Broken POST

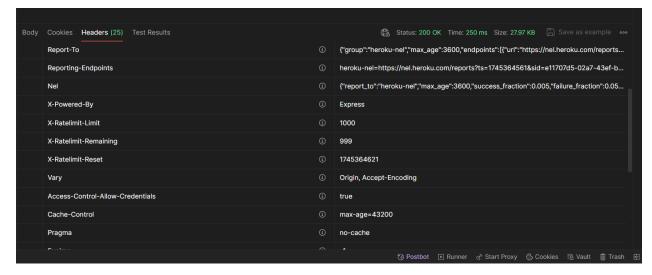
- o I sent a POST request with a broken JSON object (missing a body field).
- The request was made with the data { "title": "broken post" }.



4. Rate Limiting & Response Headers

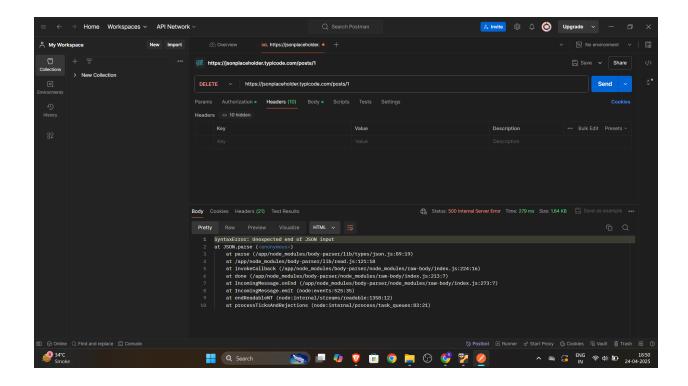
- I repeatedly sent GET requests to the API in quick succession to simulate a burst of requests.
- o I checked the response headers in Postman for rate-limiting information, specifically looking for X-RateLimit-Limit, X-RateLimit-Remaining, and X-RateLimit-Reset.





5. DELETE Request - Remove Data

- I set the method to DELETE and used the URL https://jsonplaceholder.typicode.com/posts/1 to delete the first post.
- After sending the request, I expected to receive a response indicating that the API didn't support deletion.



6. Authentication Testing (Simulating Bearer Token Authentication)

- I created a new GET request to https://jsonplaceholder.typicode.com/posts and went to the Authorization tab in Postman.
- o I selected the "Bearer Token" option and entered a fake token (1234567890abcdef).
- Here, the status is OK because there was not authorization setup in the API.

