IT-314: Software Engineering

Group - 14

VibeHub

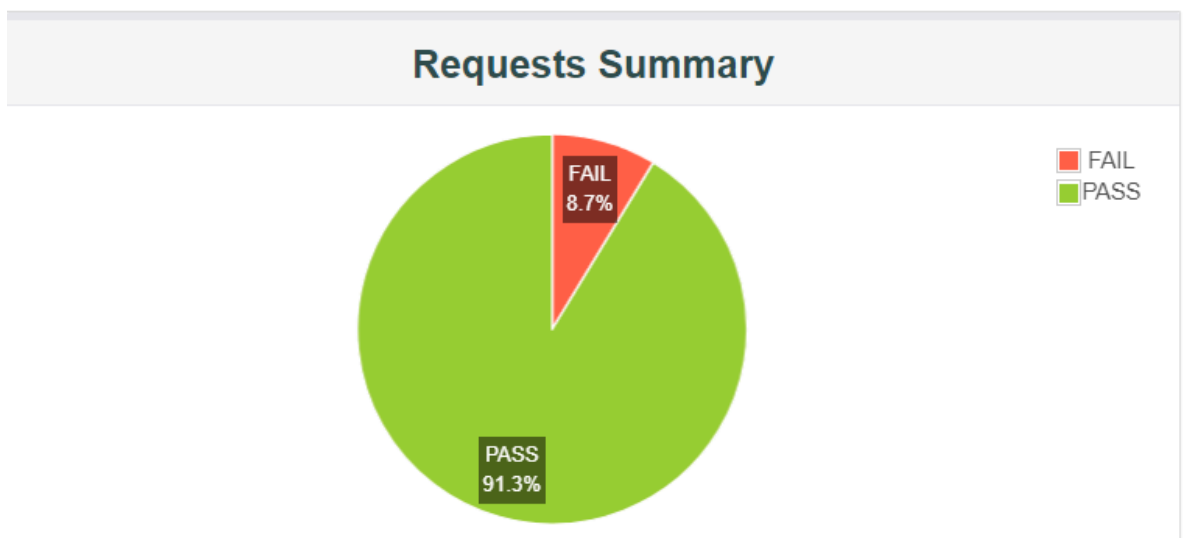# Non Functional Testing

1. Load Balance Testing :
● Testing Home Module:

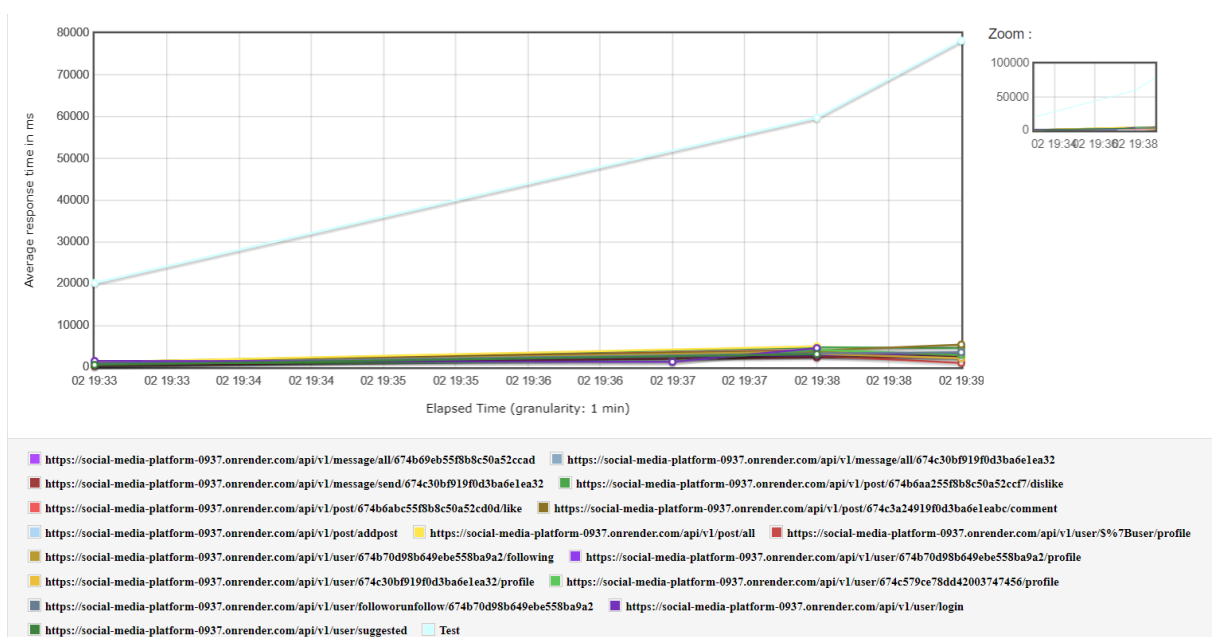GET request to **'social-media-platform-0937.onrender.com'**

Scenario: We have accessed the home page of routier with the same user from multiple hosts (100 and 600) and will be measuring the load balance and throughput of the system.
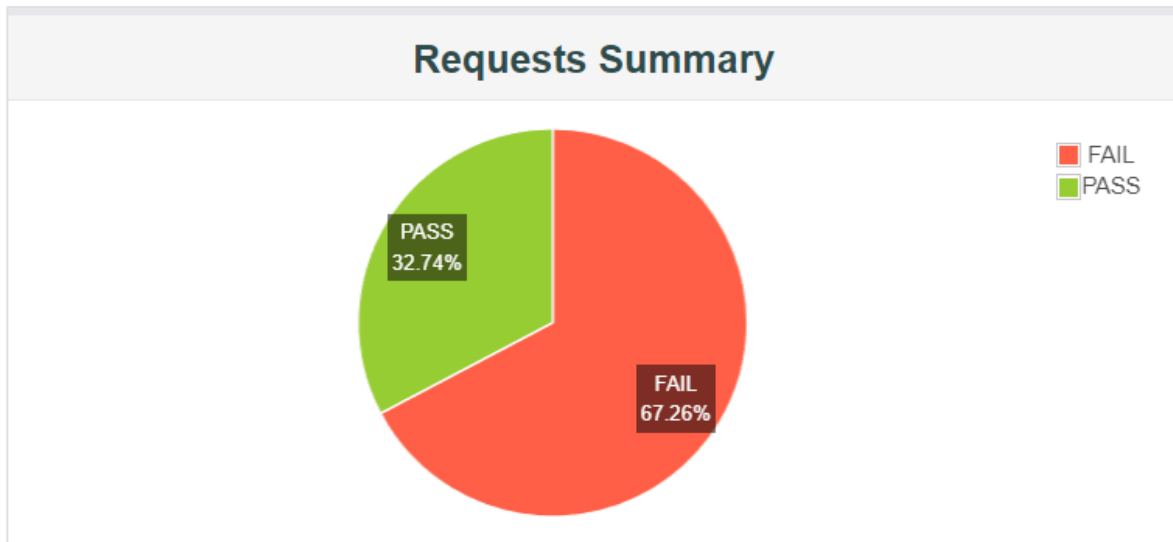
Trail 1: 100 users
● FAIL- 8.7%, PASS- 91.3%
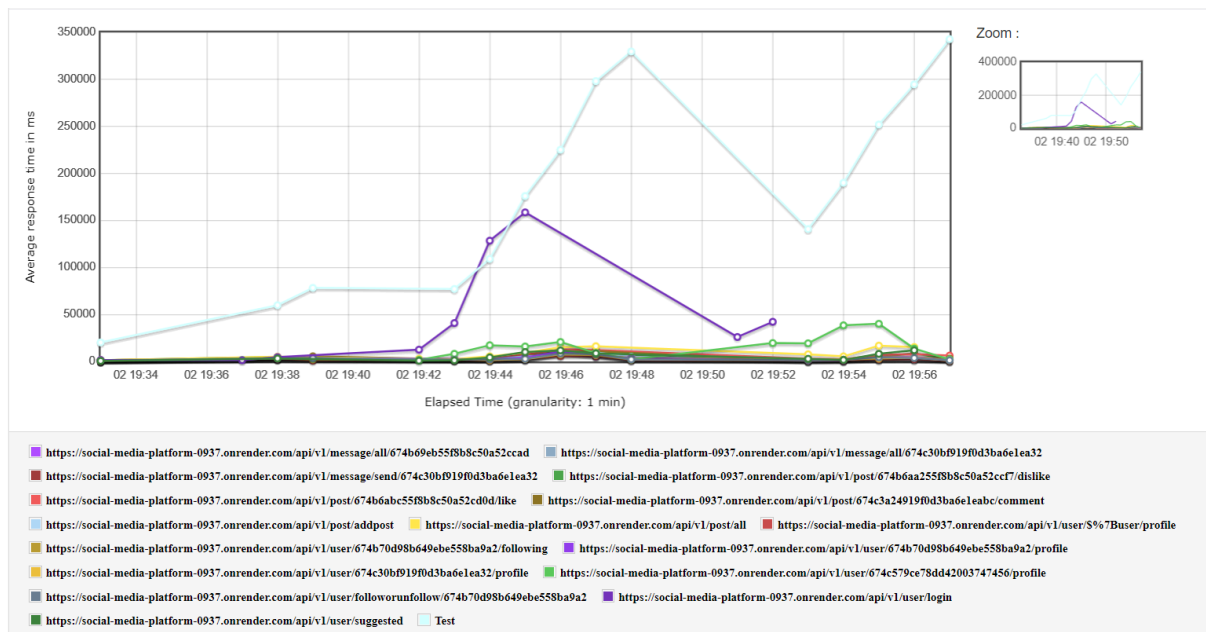

● Response times over time
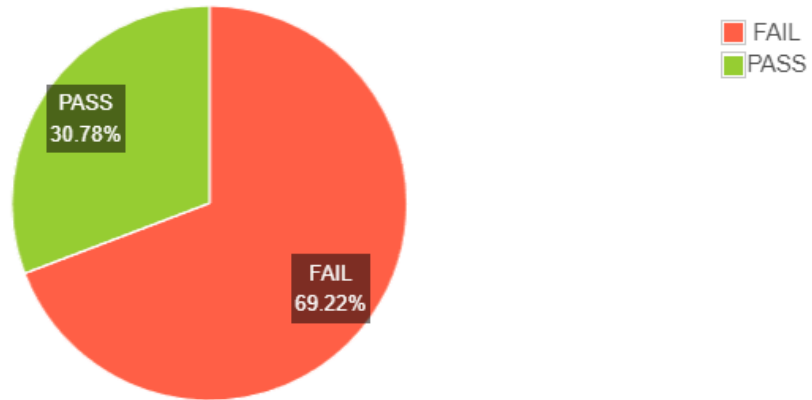
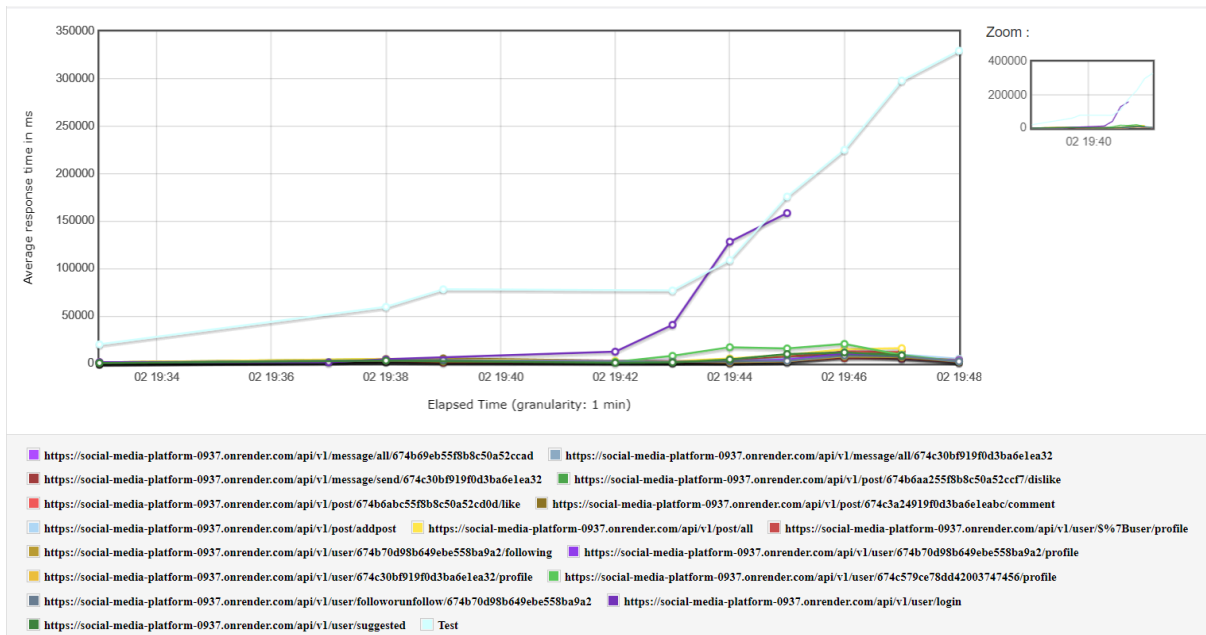Trail 2: 600 users
- FAIL- 67.26%, PASS- 32.74%

- Response time over time

Trail 3 : 1000 users
- FAIL- 69.22%, PASS- 30.76%

- Response time over time
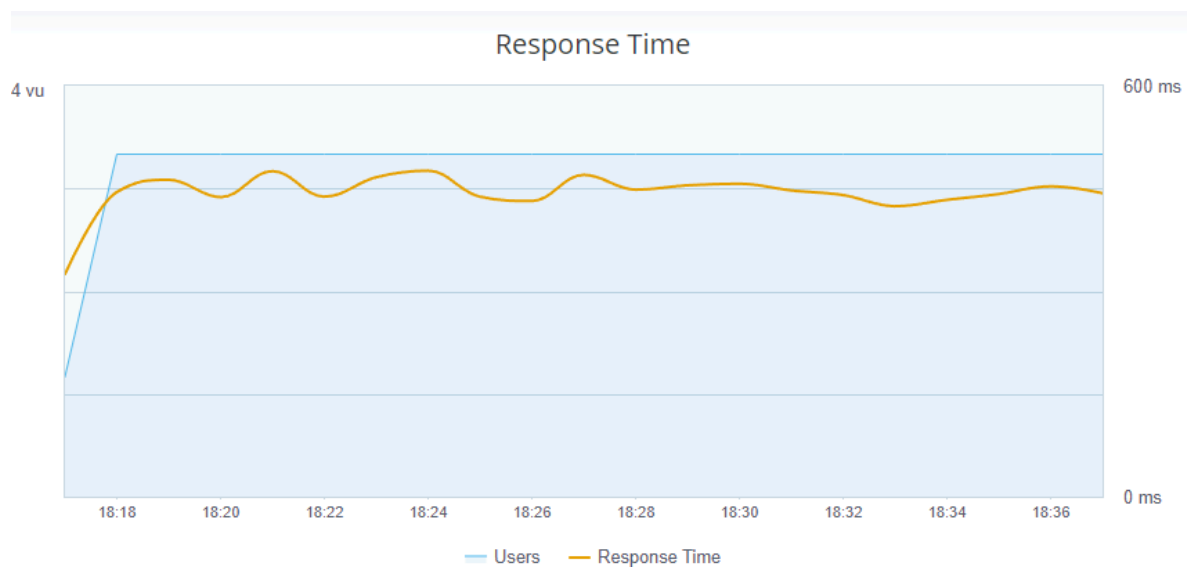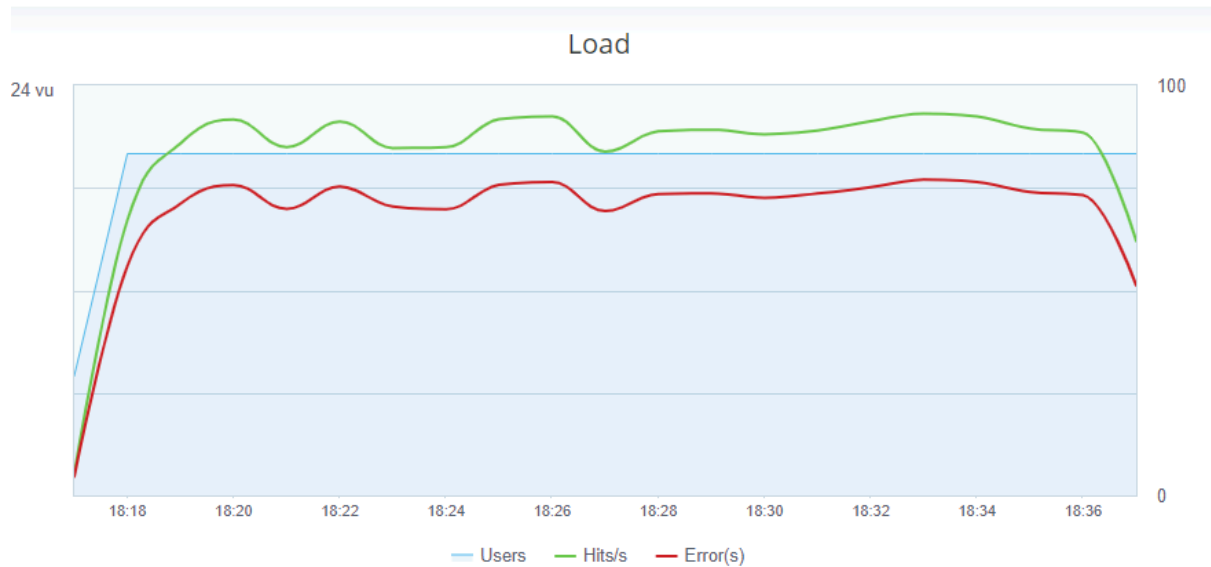
Blazemeter Server :

Graph :

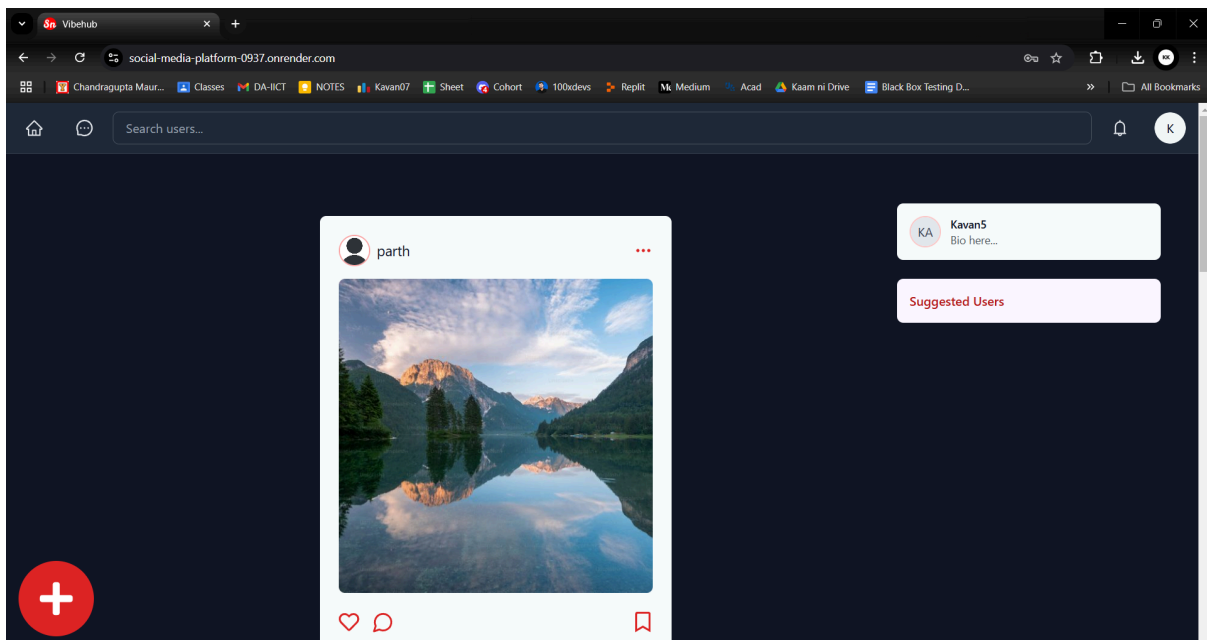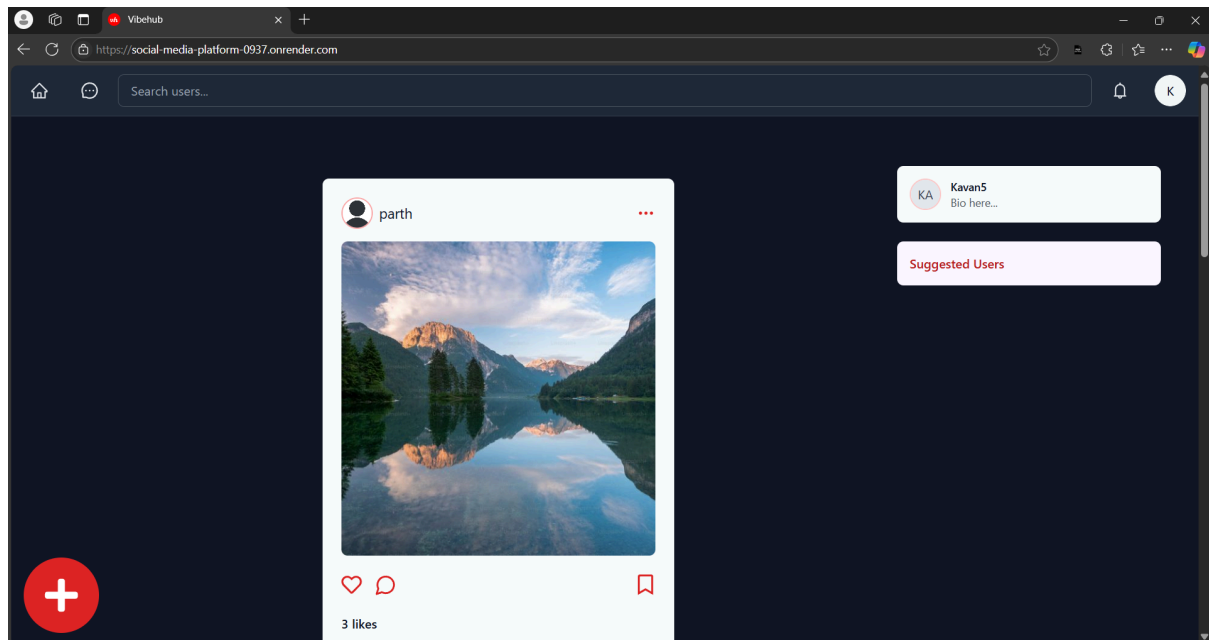## 2. Compatibility testing:

We've made sure that the website is compatible with the latest web browsers covering Edge, Chrome and Brave.

Chrome:

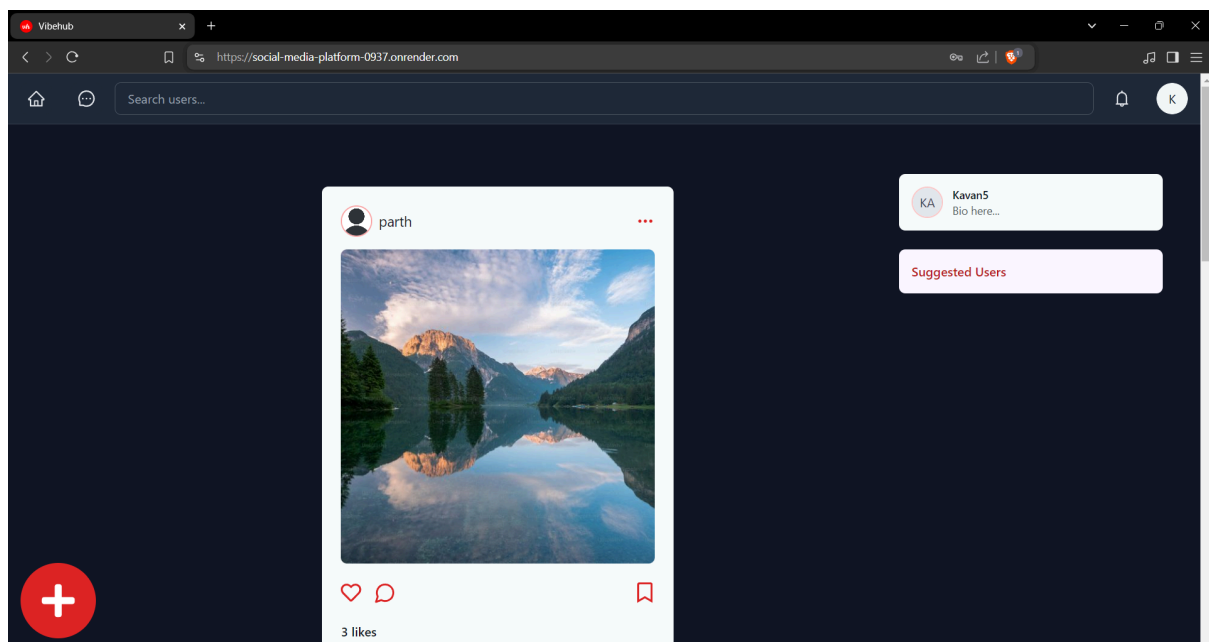**Microsoft Edge:**

Brave:

3. Security testing

Authentication and Authorization: Our system uses JWT authentication to authorize users when accessing various paths. This ensures that sensitive details remain secure, accessible only to

authenticated users. Without logging into the system, no one can gain visibility into interna information. Data Encryption: Passwords are encrypted using bcrypt with the addition of 10 salt rounds. This encryption ensures a high level of security, preventing even database administrators from viewing users' passwords. User data remains confidential and protected

Also, we have scanned our website with a third party https://pentest-tools.com/ Below is the report for the same.

Summary

Overall risk level:
Low

Risk ratings:
High: 0
Medium: 0
Low: 6
Info: 29

Scan information:
Start time: Dec 02, 2024 / 23:06:45 UTC+0530
Finish time: Dec 02, 2024 / 23:12:04 UTC+0530
Scan duration: 5 min, 19 sec
Tests performed: 35/35
Scan status: Finished