# Performance Testing – SocialX

## Objective

Ensure the SocialX application performs well under various loads and user scenarios.

## Tools Used

* Apache JMeter
* Postman for API testing
* Chrome DevTools (Lighthouse)

## Metrics Evaluated

* Page Load Time
* API Response Time
* Concurrent User Handling
* Socket.io message latency

## Results Summary

* Load test up to 1000 concurrent users showed stable response times under 300ms for most endpoints.
* Real-time chat latency was within 50ms on average.
* Post creation and feed rendering remained consistent even under high load.