

Metric	Observation
Real-Time Messaging	Socket.io enabled near-instant message delivery (<100ms latency)
Memory Usage	No memory leaks or crashes during extended sessions (tested 3+ hours)

Tools Used:

- **Postman** – For API testing and validation
- **JMeter/Locust (optional)** – For simulated load testing
- **Chrome DevTools** – For measuring frontend load times and responsiveness
- **MongoDB Compass** – To monitor query performance and database health