1. The app swill load under 5 seconds under typical workload conditions, 95% of the time.
2. The search and navigation functionalities shall return results within 3 seconds to keep the user engaged 95% of the time.
3. The system shall handle a typical workload of 5,000 concurrent users without the performance degrading 99% of the time.
4. Scalability:
5. The architecture shall scale to accommodate a 50% increase in user base and data, maintaining the stated performance standards.
6. The backend systems shall handle a data increase of 50% especially during peak usage times without performance degradation.
7. The app shall have an availability of 99% to ensure users can access it anytime they need.
8. The messaging and search submission features shall function as expected 99% of the time.
9. The app shall have security measures that prevent data breaches and unauthorized access, complying with industry security standards such as OWASP.
10. Secure connections for data transmission shall be implemented using things like HTTPS, and authentication and authorization mechanisms that will adhere to OAuth 2.0 standards.
11. The system shall comply with data protection laws and regulations like GDPR or HIPAA, as applicable.
12. User anonymity shall be maintained where required, and personal information shall be securely stored and managed following the GDPR guidelines.
13. User Interface (UI) shall be intuitive with a user satisfaction rate of at least 90% as measured through user surveys.
14. The app shall comply with WCAG 2.1 Level AA accessibility standards to ensure usability by individuals with disabilities.
15. The codebase shall follow industry standard coding conventions and shall have a documentation coverage of at least 90%.
16. A clear process for identifying, tracking, and resolving bugs shall be established with a resolution time of no more than 72 hours for critical bugs.
17. The app shall undergo unit, integration, and user acceptance testing with a coverage of at least 95%.
18. Performance Testing will be executed to validate the system's capability to handle an anticipated user load of up to 5,000 concurrent users. The pass criteria for these tests shall be the maintenance of a response time under 5 seconds and a system uptime of 99.9%, under the simulated load conditions 99% of the time.
19. Monitoring and analytics tools shall be deployed to continuously track and analyze system performance, user engagement, and other critical metrics in real-time. These tools should provide insights into system throughput, latency, error rates, and user satisfaction, enabling proactive identification and resolution of potential issues before they impact the user experience.
20. The app shall be compatible across web, IOS, and Android platforms, providing a consistent user experience with a compatibility rate of at least 92.5%.
21. Robust data management practices shall be implemented to ensure data integrity and accuracy with a data accuracy rate of at least 99.9%.
22. Regular backups shall be performed daily to prevent data loss with a successful backup rate of 99.9%.
23. Comprehensive documentation shall be provided for end-users and administrators to understand the system's functionalities and best practices, with a documentation coverage of at least 95%.