**Experiment 2 : Prepare an SRS document in line with the IEEE recommended standards for the specified case study. (Non-functional requirement)**

Non-functional requirements for an e-hospital, also known as quality attributes or performance characteristics, are criteria that describe how the system should behave rather than specifying specific features. These requirements are crucial for the overall performance, security, and usability of the e-hospital system. Here are some non-functional requirements for an e-hospital:

**1. Performance:**

- Response Time: The system should respond promptly to user actions, ensuring minimal delays in accessing patient records and other functionalities.

- Throughput: The system should handle a specific number of concurrent users and transactions without degradation in performance.

**2. Scalability:**

- The system should be scalable to accommodate increased user load and data volume as the hospital's operations grow.

**3. Reliability:**

- The system should be available 24/7 with a high level of uptime.

- It should be capable of recovering quickly from system failures or outages.

**4. Availability:**

- The e-hospital system should be highly available to ensure that healthcare professionals can access patient records and services at any time.

**5. Security:**

- Data Security: Patient information and healthcare data should be encrypted, and access should be controlled with strict authentication and authorization measures.

**6. Privacy:**

- Patient confidentiality and privacy must be maintained, with stringent measures to protect against unauthorized access to patient records.

**7. Usability:**

- The system should have a user-friendly interface that is easy to navigate for healthcare professionals, administrative staff, and patients.

**8. Interoperability:**

- The e-hospital system should be capable of integrating with external systems and data exchange standards to ensure seamless communication with other healthcare providers and systems.

**9. Maintainability:**

- The system should be easy to maintain and update, with minimal disruptions to ongoing healthcare operations during maintenance.

**10. Disaster Recovery:**

- The e-hospital should have robust disaster recovery and backup procedures in place to ensure data recovery in case of system failures or disasters.

**11. Performance Monitoring and Logging:**

- The system should have monitoring and logging capabilities to track system performance, errors, and user activities for auditing and troubleshooting.

These non-functional requirements are critical to the success and reliability of an e-hospital system, ensuring that it meets the high standards of performance, security, and usability expected in the healthcare industry.