**Non‐functional Requirements List (Iteration 2)**

**Wiki link :**  [Non‐functional Requirements List (Iteration 2) · Tejaswireddyallam/GDPFall2024-Group2 Wiki (github.com)](https://github.com/Tejaswireddyallam/GDPFall2024-Group2/wiki/Non%E2%80%90functional-Requirements-List-(Iteration-2))

**Project : Telemedicine Application**

The non-functional requirements for the telemedicine app focus on ensuring security, scalability, high availability, and an intuitive user experience, while maintaining regulatory compliance and performance under varying load conditions.

**Performance**

* The app must ensure low-latency video streaming to provide a seamless consultation experience, with minimal delay during live video consultations.
* The app must be accessible 24/7, with minimal downtime, ensuring high availability for critical consultations, especially in emergency situations.
* Appointment scheduling, prescription management, and record retrieval operations should be completed in less than 5 seconds under normal load conditions.

**Security**

* Video calls and chats should be encrypted to ensure privacy and prevent unauthorized access.
* Medical records and personal information must be securely stored and transmitted using strong encryption protocols.
* The system must provide a secure messaging platform for consultations or follow-up questions, with end-to-end encryption for all communication.
* The app must comply with HIPAA (Health Insurance Portability and Accountability Act) regulations for handling medical records, ensuring data privacy and security.
* Add multi-factor authentication (MFA) for an extra layer of security during user login.

**Usability**

* The app should have an intuitive, easy-to-navigate interface for patients, with simple steps for booking appointments and accessing medical records.

**Data Consistency**

* Ensure automatic synchronization of data across all devices in real-time to maintain up-to-date information for users accessing the app from different platforms.

**Scalability**

* The telemedicine app must be scalable to accommodate an increasing number of users, consultations, and appointments without affecting system performance, ensuring smooth operation during peak loads and allowing for seamless integration with additional servers or cloud resources as demand grows.