**3.2 Non-Functional Requirements:**

The non- functionality requirements imply the performance, constraint and quality attributes that the personal health care management system must fulfil.

Thes requirements and points assure the system’s use, dependability, security for senior citizens.

**3.2.1 Confidentiality and Safety:**

The system needs to meet HIPAA for protecting any sorts of data

The data should be encrypted when the data is transferring between any devices

For sensitive data the system needs to use extra measures such as OTP, BIOMETRICS.

Data backup needs to be provided for the data it generated.

**3.2.2 Compatability:**

The system needs to be compatible with existing government protocols

The system needs to be supportive for third party apps.

The respective guardian or care takers needs to have notification allowance for important updates.

Alerts can be modified based on the importance of the updates.

**3.2.3 Accessibility:**

It needs to be altered based upon once hearing and vision levels

It needs to provide data to the guardian every fixed time for monitoring health status and updates.

The app should be reader compatible.

It mainly needs to be available for elders at any time without causing any issues.

**3.2.4 Training and Agility:**

The software needs to adapt to changes of health data of a user based upon the patterns and needs to update to the respective person for monitoring.

The developing model and training model needs to be updated to the real-world scenarios for performing better on the data.

The device or app software needs to be ready to face the pressure and large data transmission situations for proper and accurate functionalities and outcomes.

The system needs to support third party trusted apps or devices software of better integration to provide accurate information.

**3.2.5 Flexibility and Serviceability:**

The system needs to be support future upgrades and compatible with health platforms.

APIs must be developed to support seamless integration with third-party health apps and wearables.

The system must allow remote diagnostics and troubleshooting to lower downtime and maintenance costs.

There should be continuous monitoring and logging in place to identify and address system problems ahead of time.

**3.2.6 Practicality**

The design should be easy to use and adaptable for both app and watch so that elders can use it easily.

It needs to have speech and voice constraints since eye sight can be issue for using the screen.

Providing larger font and icons to make the content readable.

Basic steps to be needed to perform actions successfully.

**3.2.7 Yielding and legal system:**

The system needs to be followed proper standards provided by government under medical categories before releasing the product.

The user agreement needs to be provided for everyone before using the application.

The software needs to be accessible in any part of the world adaptable to time zones and temperatures.

Security audits need to be done for maintaining legal and medical industry requirements.

**3.2.8 Dependability and Efficiency:**

he app and the device software’s need to be updated time to time to reach its maximum performance.

It should provide data without having any battery and performance issues.

The battery backup should be for at least 24 hours

The device and app should be having alert notifications with hearable sound.

The app and device data needs to be in sync and data to be transferred with in each device.

These functional specifications ensure that the personal health-care management system offers a seamless, secure, and effective experience tailored for old-aged users with high performance, reliability, and industry-standard compliance.