

Requirement Document for Voice Assistant Feature for Elderly Care Wearable Device

Purpose

The primary objective of integrating a voice assistant feature into the elderly care wearable device is to cater to the needs of elderly individuals with accessibility challenges, particularly those who may have difficulty seeing or typing on the device. This feature aims to provide essential assistance by offering responses to basic inquiries such as time, weather updates, and additionally provide specific information relevant to various health concerns.

Primary Features

The voice assistant feature is envisioned to incorporate the following primary functionalities:

- Provision of responses to basic queries regarding time and weather.
- Giving information regarding the current oxygen, heart rate levels, etc.
- Notifying elderly users about upcoming appointments and calendar events.
- Assisting users in querying symptoms they may be experiencing, offering relevant information.

Secondary Features

In addition to the primary functionalities, the voice assistant feature will include secondary attributes:

- Providing guidance on mental health matters and offering assistance as needed.
- Enabling users to initiate calls and send messages through voice commands.
- Conducting periodic health assessments by prompting users with a predetermined set of questions pertaining to both mental and physical well-being.

Compliance and Safety

Adherence to regulatory standards and ensuring user safety are vital considerations for the implementation of this feature:

- Compliance with healthcare privacy regulations to safeguard sensitive user data.
- Implementation of robust security measures to securely store and transmit user information.
- Ensuring the voice assistant delivers appropriate responses and refrains from responding to inappropriate inquiries.

Future Considerations

Future enhancements for the voice assistant feature aim to broaden its scope and improve user experience:

- Expanding the range of questions the voice assistant can address to encompass a wider array of topics.
- Incorporating multilingual support to facilitate communication for users of diverse linguistic backgrounds.
- Ensuring compatibility with emerging healthcare technologies to stay up-to-date of advancements in the field.

This requirement document outlines the key features, compliance requirements, and future considerations for the integration of a voice assistant feature into the elderly care wearable device, with the overarching goal of enhancing the quality of life for elderly individuals with accessibility needs.