

Vrddhopasthaan
Senior Citizen Health & Reminder App

Software Requirement Specification

Version 1.0

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1 Revision History

Version	Date	Author(s)	Reason for Changes
1.0	08.02.2025	Avilasha Goswami, Deep Habiswashi, Kaushiki Sarkar, Soumyadeep Dutta	Initial Draft

2 Introduction

2.1 Purpose

The purpose of this document is to define the software requirements for the Senior Citizen Health Reminder App, a mobile/web application designed to assist elderly individuals in managing their daily tasks, medications, and emergency contacts. The app aims to provide an intuitive and accessible interface for senior citizens to enhance their health management and safety.

2.2 Document Conventions

This document follows the IEEE 830-1998 format for Software Requirements Specification (SRS). Standard LaTeX conventions are used for structuring and formatting.

2.3 Intended Audience and Reading Suggestions

This document is intended for:

- Developers responsible for implementation.
- UI/UX designers working on accessibility.
- Healthcare professionals advising on medical compliance.
- End users and testers evaluating usability.

2.4 Scope

The application will serve as a health and reminder assistant for senior citizens. It will help users manage their medication schedules, emergency contact lists, and personal health records. The app will also include an Emergency SOS button for immediate assistance during emergencies. Some being:

- **Medicine Reminders:** Users can set and receive alerts.
- **Emergency SOS Button:** Provides an instant emergency alert system.
- **Health Record Tracking:** Stores medical history and appointments.
- **Appointment Scheduling:** Users can schedule and get reminders.
- **Caregiver Mode:** Family members can monitor reminders remotely.

3 Overall Description

3.1 Product Perspective

This app will be available as a mobile and web-based application, integrating cloud storage for records and featuring a voice-enabled assistant.

3.2 Product Functions

- **Medication Management**
- **Emergency SOS Button**
- **Health Record Tracking**
- **Appointment Scheduling**
- **Voice Command Support**

3.3 User Characteristics

- **Primary Users:** Senior citizens aged 60+.
- **Secondary Users:** Caregivers and family members.
- **Accessibility:** Large fonts and voice guidance.

3.4 Constraints

- Must have an intuitive UI for seniors.
- Requires internet connectivity.
- Must comply with healthcare privacy laws.

3.5 Assumptions and Dependencies

- Users have basic smartphone knowledge.
- May integrate with third-party medical databases.
- May rely on third-party emergency contact services.

4 Specific Requirements

4.1 Functional Requirements

- **User Registration & Login:** Secure authentication, 2FA support.
- **Medicine Reminder System:** Custom notifications.
- **Emergency SOS Feature:** One-click emergency alerts.
- **Health Records Management:** Secure cloud storage.
- **Appointment Scheduling:** Sync with calendar apps.
- **Settings & Customization:** Language preferences, dark mode.

4.2 External Interface Requirements

- **Mobile Interface:** Android/iOS support.
- **Web Interface:** Browser accessible.
- **API Integration:** Connects with health services.
- **Voice Assistant Integration:** Supports voice commands.

4.3 Nonfunctional Requirements

- **Performance:** Notifications within 1 second.
- **Reliability:** 99.9% uptime.
- **Security:** Encrypted storage, auto logout.
- **Usability:** Large fonts, high contrast modes.

5 Supporting Information

- UI wire-frames will be included in future updates.
- Future enhancements may include AI-driven health insights.
- In any increments, a wearable device for senior citizen to track their real-time location has been taken into consideration.
- The wire-frames will give real time health updates to the families to act upon early during any mishap.

6 References

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