1/7/2024

Initial Project Planning

FINAL YEAR PROJECT



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THE BRITISH COLLEGE

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**SENIOR-SHIELD: Next-Gen HealthCare App for Elderly**

# Project Aim:

The aim of "Senior-Shield" is to develop a next-generation healthcare app that uses IoT technology to provide complete monitoring, instant help, and improved well-being for the elderly, resulting in a safer and healthier aging experience.

# Objectives:

The objective of my project includes:

* Adaptive User interface catering to the specific needs of elderly users.
* Develop a system to monitor elderly health using IoT technology.
* Make sure falls get noticed quickly with smart technology.
* Help remember and take medicines on time.
* Alert caretakers fast if something seems off, using clever analytics.
* Chat to a doctor through the app for easy consultations
* Incorporate GPS and accurate location tracking and safety alerts.

# Project Specification

Senior-Shield uses IoT gadgets to keep track of health and remind about medicines. It operates as a Flutter-based smart app that can interact with these gadgets keeping everything safe and easy for older folks.

The following is a description of the product specification using the MoSCoW technique, which is divided into functional and non-functional requirements:

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| Functional Requirements | MoSCoW |
| Continuous monitor of vital signs like heartrate, blood pressure and temperature using IoT devices | **M** |
| Fall Detection and Emergency Response | **M** |
| IoT Integration | **M** |
| Real Time Alerts and Notifications | **M** |
| Medication Management | **M** |
| Responsive UI | **S** |
| Location Tracking and GPS Integration | **S** |
| Chat Service Integration with Doctor | **S** |
| Awareness Messages | **S** |
| Integration of Brain Games | **C** |
| Chat with Friends | **C** |

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| Non-Functional Requirements | MoSCoW |
| Security Measures with Data Encryption | M |
| Easy To Use for Seniors and Understandable | M |
| Smooth Working with Traffic Handling | M |
| Compatibility With Multiple Devices | S |
| Continuous Improvement with Feedback and new technology | S |
| Offline Capability | C |
| Aesthetic Appealing | C |