Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Detailed Personal Assistance Inventory	There is a rising concern in designing options for elderlies residing in a society with an increased population ageing. IoT is a revolutionary phenomenon that transforms our life entirely as well as aims to revolutionize current healthcare into a more individualized, precautionary and inclusive approach to treatment.
FR-2	Real Time Monitoring	In order to integrate these two main problems, this research provides an IoT-ready approaches for elderly living treatment that can track and record critical details for patients in emergencies and include protocols for activating alarms
FR-3	Adjusting Technology	The strong low / low-cost / wireless capabilities make this approach into a secure and convenient wristband, perfect for anywhere and anywhere. There has been a strong device efficiency for incorporated functionalities and an overall battery life time of 306 hours (around 12 days) has been reached with respect to autonomy
FR-4	Expensive Assistance	Without the need of the out - of-range alarm, the device has demonstrated its output within a distance of 60 metres. Health Care,Internet of Things (IoT), Monitoring Wristband,ElderlyLiving

FR-5	Eliminate Inefficient Things	In the industry there are still several sophisticated adaptive applications for AAL. A system for the compilation of patient mobile cardiovascular telemetry (MCT) and tracking for cardiac attacks is the Body Guardian Cardiac. Data from a patient was identified immediately and wirelessly transmitted through a mobile to a control center
FR-7	Plan Routes for Personal Assistance	The IoT is a revolutionary concept that enriches our daily existence and aims to bring about dramatic improvements and a huge impact on american healthcare while making for a more customized, efficient and integrated medical network. We-Care, a framework of IoT healthcare intended to track and collect critical data on elderly persons, was introduced in this article.In case of emergencies, the device will sense crashes and the lack of vital signs, causing warnings.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	. The pill dispenser loaded by the patient himself or by somebody helps the patient. The Entered details of medicine are kept within the cloud database and reminders are set.

NFR-2	**Security**	After getting the inputs, mobile application saves the data. Output gives medicine reminders and medicine in take records.
NFR-3	**Reliability**	We have demonstrated a mobile application that generates alarm signals to remind a patient to take medication. We focus on helps patients and improving the monitoring system. The application Medicare is easily accessible.
NFR-4	**Performance**	Combination of a sensing system with android application helps us to measure how well a patient can take their daily medication in real-time. The availability of sensors and other medicinal services gadgets (IoT) work better in consideration of patients. It allows real-time monitoring.
NFR-5	**Availability**	Firstly, the medicine loaded into the device, then user should set the medication details using the mobile application. It includes of medicine name, medicine quantity etc. The device will remind and send notifications on time by using this information. The input includes Medicine name. Number of dosages. Times of the day to take. Reminder Days

NFR-6	**Scalability**	This module is basically for notification. When the user set any reminder for their medicine. The user can activate or deactivate this as they want. When the user doesn't want to see the notification, he can turn it off or he can receive it in the device