Project Design Phase-I

Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID18885
Project Name	Project - Personal Assistance for Seniors Who Are Self-Reliant
Maximum Marks	4 Marks

Solution Architecture Diagram:
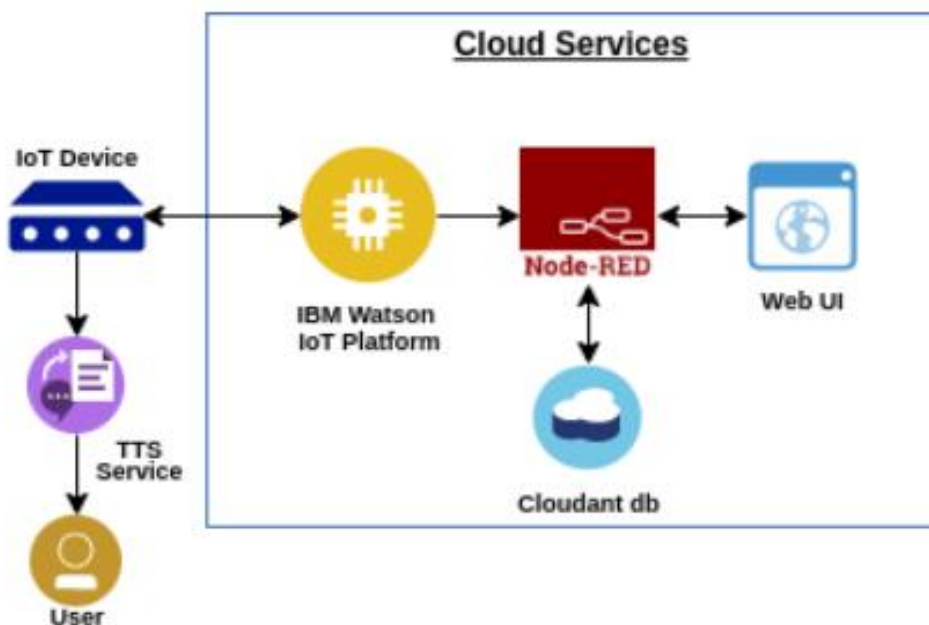
Problem Statement

- Today, most people can expect to live into their seventies and beyond. According to the United Nations, the number of people aged 60 years or older is projected to grow by 56 percent worldwide by 2030.

- Our health and well-being lie at the center of this massive shift in demographics.

- Many of these people will have physical impairments (loss of hearing, eyesight or mobility) or dementia or Alzheimer's and need an increasing amount of care.

- Challenges faced by Elderly People are medicine reminders, daily routines and loss of short-term memory.

- Sometimes elderly people forget to take their medicine at the correct time.

- They also forget which medicine He / She should take at that particular time.
- And it is difficult for doctors/caretakers to monitor the patients around the clock.

Description of Architecture

- To avoid this problem, a medicine remainder system is developed.
- An app is built for the user (caretaker) which enables him to set the desired time and medicine. These details will be stored in the IBM Cloudant DB.
- If the medicine time arrives the web application will send the medicine name to the IoT Device through the IBM IoT platform.
- The device will receive the medicine name and notify the user with voice commands.
- This app will make the elderly people to take the right medicine at the right time and it prevents them from skipping the doses and makes them take the medicine regularly.
- It also promotes safe independent living, leading to happier and healthier cared - for individuals.