

## Project Design Phase-II    Technology Stack (Architecture & Stack)

|               |   |
|---------------|---|
| Date          | 20 Oct 2022   |
| Team ID       | PNT2022TMID35094                                      |
| Project Name  | Personal Assistance for Seniors Who Are Self-Reliant. |
| Maximum Marks | 4 Marks   |

Technical Architecture:

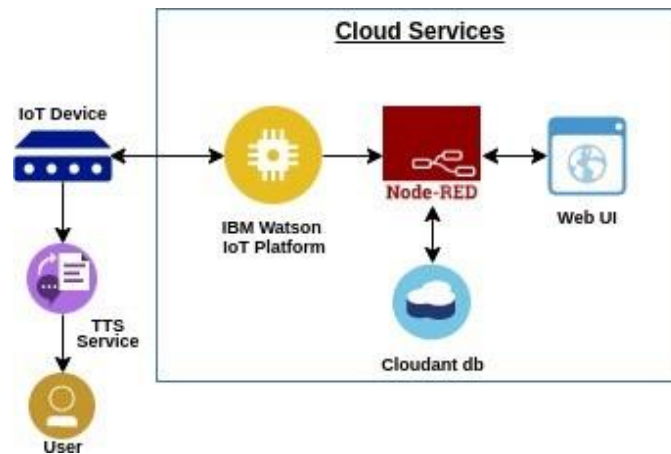


Table-1: Components & Technologies:

| S. No | Component           | Description                                      | Technology      |
|-------|---------------------|--|-----------------|
| 1.    | User Interface      | Mobile App                                       | MIT             |
| 2.    | Application Logic-1 | Gathering medicine details and check the timings | Python          |
| 3.    | Application Logic-2 | Alarms   | IBM Watson      |
| 4.    | Cloud Database      | Database Service on Cloud                        | IBM Cloudant DB |

Table-2: Application Characteristics:

| S. No | Characteristics        | Description  | Technology                           |
|-------|------------------------|--|--------------------------------------|
| 1.    | Open-Source Frameworks | Mobile application development setup, programming the IoT device, text to speech service, storing details in cloud | MIT, IBM Watson, node red, IBM cloud |

|    |                          |  |                                      |
|----|--------------------------|--|--------------------------------------|
| 2. | Security Implementations | Implementing encryption for security purpose             | SHA-256.                             |
| 3. | Scalable Architecture    | Application is able to load as many members as logged in | MIT, IBM Watson                      |
| 4. | Availability             | Application is available 24/7                            | MIT, IBM Watson, node red, IBM cloud |
| 5. | Performance              | Reminder with correct timing                             | IBM Watson, IBM IoT Platform         |