

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

|               |   |
|---------------|---|
| Date          | 03 October 2022   |
| Team ID       | PNT2022TMID07000  |
| Project Name  | Project - <b>Personal Assistance for Seniors Who Are Self-Reliant</b> |
| Maximum Marks | 4 Marks   |

#### Functional Requirements:

Following are the functional requirements of the proposed solution.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task)  |
|--------|-------------------------------|---|
| FR-1   | User Registration             | Registration through Form<br>Registration through Mobile number<br>Registration through Gmail |
| FR-2   | User Confirmation             | Confirmation via Email<br>Confirmation via OTP  |
| FR-3   | Personal Information          | Gathering patient's bio data and medicine history   |

|      |                                |  |
|------|--------------------------------|--|
| FR-4 | Scheduling                     | <p>Doctor medicine prescription</p> <p>Doctor's appointment.</p> <p>Suggestion of food plan by nutritionist.</p>   |
| FR-5 | Reminding the medicine timings | <p>Alert the person to take medicine with the correct dosage and medicine name.</p> <p>Remind the doctor's appointment.</p> <p>Remind everyday's diet plan.</p>  |
| FR-6 | Emergency alarm                | <p>Doctor and caretaker gets the alarm when the person's health is abnormal, which is indicated by heart rate fluctuations or if any fall is detected.</p> <p>Caretaker gets the alarm for the person's missed medicine.</p> |

#### Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description  |
|--------|----------------------------|--|
| NFR-1  | <b>Usability</b>           | Caretaker/doctor can easily schedule medicine timings through his/her dashboard. The person can acknowledge the medicine intake using a simple UI. |
| NFR-2  | <b>Security</b>            | The person's information is secured by providing access permission only to the   |

|       |                     |  |
|-------|---------------------|--|
|       |                     | corresponding registered caretaker and doctor.   |
| NFR-3 | <b>Reliability</b>  | The application is reliable because of authentication of users and providing database updates regularly.   |
| NFR-4 | <b>Performance</b>  | The application uses virtual sensors, so the performance will be high. The modularization helps in improving the performance of the application. |
| NFR-5 | <b>Availability</b> | The services provided are available to the registered users.   |
| NFR-6 | <b>Scalability</b>  | As we are using IBM cloud, our application supports many users at the same time. Hence, it is scalable.  |