

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

|               |  |
|---------------|--|
| Date          | 15 October 2022                                      |
| Team ID       | PNT2022TMID13510                                     |
| Project Name  | Personal Assistance for Seniors Who are Self Reliant |
| 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   | Device Registration           | Registration through phone number<br>Registration through OTP                            |
| FR-2   | User Registration             | Registration through Form<br>Registration through Gmail<br>Registration through LinkedIn |
| FR-3   | User Confirmation             | Confirmation via Email<br>Confirmation via OTP   |
| FR-4   | Medication Registration       | Registration through Patient Name<br>Medication Details                                  |
| FR-5   | Medication Alert              | Alert through Message<br>Alert through buzzer<br>Alert through Alarm                     |
| FR-6   | Stock Alert                   | Alert through Message  |

**Non-functional Requirements:**

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

| FR No. | Non-Functional Requirement | Description  |
|--------|----------------------------|--|
| NFR-1  | <b>Usability</b>           | The system offers efficiency for data backup. The system will track every mistake as well as keep a log of it.   |
| NFR-2  | <b>Security</b>            | The system needs the patient to recognize herself or himself using the phone. Any users who make use of the system need to hold a Logon ID and password. |
| NFR-3  | <b>Reliability</b>         | <b>Reliability</b> specifies how likely the system or its element would run without a failure for a given period of time under predefined conditions.    |

|       |                     |   |
|-------|---------------------|---|
|       |                     | Traditionally, this probability is expressed in percentages.  |
| NFR-4 | <b>Performance</b>  | The system provides acknowledgment in just one second once the 'patient's information is checked. The system needs to support at least 1000 people at once. The user interface acknowledges within five seconds.                    |
| NFR-5 | <b>Availability</b> | The system is available all the time.   |
| NFR-6 | <b>Scalability</b>  | <b>Scalability</b> assesses the highest workloads under which the system will still meet the performance requirements. There are two ways to enable your system scale as the workloads get higher: horizontal and vertical scaling. |