

**PROJECT DESIGN PHASE-II**  
**Solution Requirements (Functional & Non-functional)**

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|----------------------|---|
| <b>Date</b>          | 03 October 2022   |
| <b>Team ID</b>       | PNT2022TMID19347  |
| <b>Project Name</b>  | Project – AI-Powered Nutrition Analyzer for Fitness Enthusiasts |
| <b>Maximum Marks</b> | <b>4 Marks</b>  |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

| <b>FR No.</b> | <b>Functional Requirement (Epic)</b> | <b>Sub Requirement (Story / Sub-Task)</b>  |
|---------------|--------------------------------------|--|
| FR-1          | <b>User Registration</b>             | Registration through Form<br>Registration through Gmail<br>Registration through LinkedIn   |
| FR-2          | <b>User Confirmation</b>             | Confirmation via Email<br>Confirmation via OTP.<br>The application gives the ability to ask questions about a problem in the fitness groups, through which they can work effectively.  |
| FR-3          | <b>User Login</b>                    | Login through Google<br>Login through Email<br>The satisfaction of each user is a must, so UI/UX should be more than enough to engage the user in the platform and the performance of the application should be optimized in order to keep every user for a long time. |
| FR-4          | <b>Choose package</b>                | Selection of desired package<br>The user should be engaged in the application at least Once a day to get notified about the latest and good practice on fitness which is recommended by the backend model.   |
| FR-5          | <b>Generate the daily plan</b>       | Daily plans will be generated by dietician   |
| FR-6          | <b>Manage progress report</b>        | Gathering information from database and generating report  |
| FR-7          | <b>Query</b>                         | The user can ask for changes in plan   |

**Non-functional Requirements:**

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

| <b>FR No.</b> | <b>Non-Functional Requirement</b> | <b>Description</b>  |
|---------------|-----------------------------------|---|
| NFR-1         | <b>Usability</b>                  | Easy to use with interactive User Interface<br>So, the application should be easily accessible by users and also it should have the ability to report an issue by the user to solve it as soon as possible. |
| NFR-2         | <b>Security</b>                   | User can access only their personal information and not that of other users.<br>Authentication and authorization are to be done properly through the application.   |
| NFR-3         | <b>Reliability</b>                | The average time of failure shall be 7 days.<br>Application can offer you to stay focused on your diet plan.  |
| NFR-4         | <b>Performance</b>                | The results have to be shown within 10 sec<br>Performance of the application should be high enough to maintain the user in the application and also to get new users.                                       |

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|-------|---------------------|---|
| NFR-5 | <b>Availability</b> | <p>The dietician shall be available to users 24 hours a day, 7 days a week.</p> <p>The application should be as much as scalable, in order to increase the number of users based on their interest.</p> |
| NFR-6 | <b>Scalability</b>  | <p>Supports various food items</p> <p>The application should be as much as scalable, in order to increase the number of users based on their interest.</p>  |