# Project Design Phase-2
## SOLUTION REQUIREMENTS
## (Functional & Non-functional)

| | |
|---|---|
| Date | 03 October 2022 |
| Team ID | PNT2022TMID37006 |
| Project Name | AI-Powered Nutrition Analyzer for Fitness Enthusiasts |
| Maximum Marks | 4 Marks |

## Solution Requirements:

They are fall into two large groups are

     1.Functional requirements

     2.Non-functional requirements

# Functional requirements:

*Following are the functional requirements of the proposed solution.*

| Fr.no | Functional requirement | Sub requirement (story/subtask) | |
|---|---|---|---|
| Fr.1 | User registration | *Registration through form<br>* Registration through Gmail | |
| Fr.2 | User confirmation | *Confirmation via OTP<br>*Confirmation via Email | |
| Fr.3 | Capturing Image | *Capture the image of the food item and check the parameter of the captured image. | |
| Fr.4 | Image processing | *Upload the image to identify the nutrients including in it. | |
| Fr.5 | Food identification | *Identify the food and predict the nutrients in food | |
| Fr.6 | Image decryption | *Suggesting the good nutrients in the food | |

# Functional requirements:

*Following are the functional requirements of the proposed solution.*

| Fr.no | *Functional requirement* | Description |
|---|---|---|
| NFR-1 | Usability | Datasets of all the food is used to detecting the nutrients that present in the food. |
| Nfr-2 | Security | The information belongs to the user and food are secured highly. |
| Nfr-2 | Reliability | The food quality is important to the predicting the nutrients in food. |
| Nfr-2 | Performance | The performance is based on the quality of the food used to predict the nutrients. |
| Nfr-2 | Availability | It is available for all user to predict the nutrients available in the food. |
| Nfr-2 | Scalability | Increasing the prediction of the nutrients in the food. |