**Ideation Phase**

**Define the Problem Statements**

| Date | 19 September 2022 |
| --- | --- |
| Team ID | PNT2022TMID20852 |
| Project Name | Project - **AI-powered Nutrition Analyzer for Fitness Enthusiasts** |
| Maximum Marks | 2 Marks |

**Customer Problem Statement :**

Food is essential for human life and has been the concern of many healthcare conventions. Nowadays new dietary assessment and nutrition analysis tools enable more opportunities to help people understand their daily eating habits, exploring nutrition patterns and maintain a healthy diet. Nutritional analysisis the process of determining the nutritional content of food. It is avital part of analytical chemistry that provides information about the chemical composition, processing, quality control and contamination of food.

The main aim of the project is to build a model which is used for classifying the fruit depends on the different characteristics like color, shape, texture etc. Here the user can capture the images of different fruits and then the image will be sent the trained model. The model analyses the image and detect the nutrition based on the fruits like (Sugar, Fiber, Protein, Calories,etc.).

The user interacts with the UI (User Interface) and give theimage as input. Then the input image is then pass to our flask application, And finally with the help of the model which we build we willclassify the result and showcase it on the UI.

| **I am** | **Mr.X** | **Mr.X , fruits, food,etc.** |
| --- | --- | --- |
| **I’m trying to** | **Have nutritious food** | **Sugar,Protein,Carbs,Fat.etc.** |
| **but** | **I’m unable to analyze** | **Lack of analyzing capacity** |
| **because** | **I don't know the nutrition values** | **Don’t know how to analyze with AI, lack of knowledge in AI.** |
| **which makes me feel** | **Lazy about choosing right food** | **Can’t analyze due to unknown facts about the nutrition values.** |

| **Problem Statement (PS)** | **I am (Customer)** | **I’m trying to** | **But** | **Because** | **Which makes me feel** |
| --- | --- | --- | --- | --- | --- |
| PS-1 | X | **Have nutritious food** | **Have nutritious food** | **Have nutritious food** | **Have nutritious food** |
| PS-2 | Y | **Have nutritious food** | **Have nutritious food** | **Have nutritious food** | **Have nutritious food** |