Project Design Phase-I
Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID15800
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	2 Marks

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	• The main aim of the project is to building a model which is used for classifying the fruit depends on the different characteristics like colour, 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, Fibre, Protein, Calories, etc.).
2.	Idea / Solution description	• The user logins to the system using the login credentials. • The user interacts with the UI (User Interface) and give the image as input. • Then the input image is passed to the flask application. • Next is to develop an AI model to capture the image and recognize the fruit and find it's nutritional values. • And finally with the help of the model which we build we will classify the result and showcase it on the UI.

3.	Novelty / Uniqueness	• This model can capture images and detect the nutritional values of the fruits and showcase it to the user. • The model collects the user input and prepares diet charts for the user. • Personalized fitness and diet plans for the user.
4.	Social Impact / Customer Satisfaction	• Helps the fitness enthusiasts to find the nutritional value of the fruits they're consuming which will help them to maintain a balanced diet by taking adequate amount of nutrients needed every day. • To consult with the nutritionist and personal trainers for their diet plans and training schedules. • Generalised diet and fitness plans to all the users based on their goals.
5.	Business Model (Revenue Model)	• Specific diet and fitness plans according to their body type and their goals for the premium subscription members. • Personal trainers to help the fitness enthusiasts with the workouts. • Personal nutritionist for the fitness enthusiast to help with diet plans based on their fitness goals.
6.	Scalability of the Solution	• The solution is developed in the such a way that we can update the system without disturbing the current model. • All the future enhancements can be added to the system without changing the model.