Project Design Phase-I
Proposed Solution Template

Date	14 October 2022
Team ID	PNT2022TMID 21978
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Concern over chronic illnesses, as well as other diet-related health issues including obesity and cancer, is on the rise. Dietary intake offers important insights for setting up intervention programmes for chronic disease prevention. In the domains of nutrition and health, precise food intake measurement is thought to be an open research challenge
2.	Idea / Solution description	In this project we need to develop a model using Artificial Intelligence. Which will be going to categorise fruits according to their various attributes, such as colour, shape, and texture. Here, users can take pictures of various fruits, which are subsequently uploaded to a trained algorithm for analysis. The algorithm examines the image to determine the nutritious content of the fruits.
3.	Novelty / Uniqueness	The uniqueness of our system software is to train and test the Collected images of different food items organized into subdirectories based on their respective names. Using CNN Algorithm, For more accurate results we can collect images of high resolution and feed the model with more images.
4.	Social Impact / Customer Satisfaction	The main impact is Malnutrition it includes undernutrition (wasting, stunting, and underweight), insufficient vitamins and minerals, overweight, obesity, and the ensuing non communicable diseases linked to diet over 462 million adults are underweight, compared to 1.9 billion who are overweight or obese. Undernutrition is a contributing factor in about 45% of fatalities in children under the age of five. To overcome this conflict our system will have an impact on society
5.	Business Model (Revenue Model)	We can introduce the software-based approach for making a good income. It is extremely useful to people with malnutrition, media people, body builders and many end users. The number of features makes it attractive for end users to use our software system
6.	Scalability of the Solution	Cloud-based nutrition analysis solution, which helps dietitians, health organizations, medical practitioners and food service businesses to plan meals and generate nutritional reports. Key features include dietary analysis, goal tracking, client data management, and messaging.