

Project Design Phase - I
Proposed Solution Architecture

Date	10th October 2022
Team ID	PNT2022TMID53113
Project Name	Project AI-powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	2 marks

Proposed Solution Template:

.S.No	Parameter	Description
1.	Problem Statement(Problem Solved)	To create an AI-Powered Nutrition Analyzer application for Fitness Enthusiasts
2.	Idea/Solution description	<p>The problem of inaccessible diet plans in the palm of your hand affects fitness enthusiasts, individuals who follow diets, and people who cannot go to the gym or follow a costly diet. If fixed, many more people need not rely on gyms for fitness and dieting. Even though diet plans can be constrained by the culture and religion of different people in food products like meat, easy access to nutritional information would at least spread awareness amongst people. Moreover, one of the major issues for people is the easy access to this kind of information. Hence, the implementation of this app would revolutionize the fitness and health industry and enable more people to be healthy and fit. Stakeholders such as investors and developers will receive recognition and profit for helping raise community awareness about health and users will become more healthy.</p>

3.	Novelty/Uniqueness	The web application will be able to instantly classify the fruits and inform the user about the nutritional information by using real time images from mobile phones.
4.	Social Impact/Customer Satisfaction	The customer will have an idea of their daily calories intake thus improving the health of the user. There will be reduction in consumption in high calorie-containing fruits which might even affect its production and sale.
5.	Business Model	The targeted customers for the product are those people who are health conscious , Fitness enthusiasts and they always want to eat healthy. Their main goal is to consume less calories by avoiding junk food and eating fruits and vegetables. This app will provide them a way to know the calories contained in the fruit. There will be high costs involved in advertisement and this is the most crucial step for the success of the product. To get things right the clear survey or data has to be studied and analyze what are the main smaller functionalities required by the target audience and add these functionalities in the newer versions of the app. The versions have to be released regularly to maintain customer engagement. This might take a high cost for maintenance and this may cause demand for more man power.
6.	Scalability of the solution	The proposed solution can be extended to vegetables using the same logic for the fruits. This has fairly low scalability for common food items as by pictures we cannot know the ingredients used.

