

Project Design Phase-I
Proposed Solution Template

Date	9 October 2022
Team ID	PNT2022TMID18537
Project Name	Project – Nutrition Assistant Application
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none">• The project aims at building a web App that automatically estimates food attributes such as ingredients and nutritional value by classifying the input image of food.• Our method employs Clarifai's AI-Driven Food Detection Model for accurate food identification and Food API's to give the nutritional value of the identified food.
2.	Idea / Solution description	<p>The proposed system has the following features:</p> <ul style="list-style-type: none">• Customized and easy to access interface.• Individual chat rooms with options of fixing appointments for counselling.• Options of capturing data from counselling session for future references.• Counselling for disease oriented diet plans like Ketogenic diet.• Suggest diet plans.• Calorie counter for selected food item.• Alternative dish with required calories.• Calorie values of more than 1000 International and Indian cuisines.• Interesting notes on selected food items.• Recorded health history.

3.	Novelty / Uniqueness	<p>The following features adds uniqueness to this project:</p> <ul style="list-style-type: none"> • User interacts with the Web App to Load an image. • The image is passed to the server application, which uses Clarifai's AI-Driven Food Detection Model Service to analyse the images and Nutrition API to provide nutritional information about the analysed Image. • Nutritional information of the analysed image is returned to the app for display.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> • The customer satisfaction is very well improved for getting appropriate response from the nutritionist immediately. • As soon as the user uploads the image, within few seconds the prediction result page will be displayed which highly improves the customer satisfaction. • The key customer satisfaction factor is consistency. The consistency is the secret ingredient to make customers happy.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> • Different algorithms are used to correctly map the food items that has been uploaded by the user. • Appropriate algorithms are used to display the prediction result page.
6.	Scalability of the Solution	<ul style="list-style-type: none"> • The project is capable of handling growth, especially in handling more users and evolving concurrently with the business needs. • It also relates to the app's backend, database and the servers they are hosted on which is highly satisfied by this project.