

Project Design Phase-I
Proposed Solution Template

Date	20 October 2022
Team ID	PNT2022TMID36381
Project Name	Project – Fertilizers Recommendation System for Disease Prediction
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)	Agriculture is the most important sector in today's life. Most plants are affected by a wide variety of bacterial and fungal diseases. Diseases on plants placed a major constraint on the production and a major threat to food security. Hence, early and accurate identification of plant diseases is essential to ensure high quantity and best quality
2.	Idea / Solution description	The solution to the problem is to provide a smart user friendly recommendation system to the farmers. By providing an image of a leaf farmer gets an idea of which disease caught their crop, they also suggest and recommend fertilizers & how you can prevent it.
3.	Novelty / Uniqueness	Create a system for predicting crops leaf according to crop image details, recommending fertilizers according to crop details, and detecting diseases in the plant
4.	Social Impact / Customer Satisfaction	Farmers are unaware of which crop to grow, and what is the right time and place to start due to uncertainty in climatic conditions. The usage of various fertilizers is also uncertain due to changes in seasonal climatic conditions and basic assets such as soil, water, and air. In this scenario, the crop yield rate is steadily declining. So this application can be more useful for smart farming.
5.	Business Model (Revenue Model)	In addition to providing information about the use of fertilizers to the diseased crops, it also provides information about what crops can grow in the provided proportion of soil.
6.	Scalability of the Solution	Provide Crop prediction accuracy, disease and correct fertilizer recommendations and reduce crop pest and diseases in plant.