

Project Design Phase-I
Proposed Solution Template

Date	13 October 2022
Team ID	PNT2022TMID04804
Project Name	Fertilizers recommendation system for disease prediction
Maximum Marks	2 Marks

Proposed Solution Template:

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The problem statement is number of diseases on plants and the degree of harm caused has increased due to the variation in pathogen varieties, changes in cultivation methods, and inadequate plant protection techniques. There should be a Fertilizer system to recommend correct fertilizer to cure the crop disease.
2.	Idea / Solution description	In order to recommend the right fertilizer to right crops, there should be an Artificial Intelligence based model with deep learning techniques.
3.	Novelty / Uniqueness	The Developed model should be able to predict the disease accurately and able to suggest a suitable fertilizer for the disease.
4.	Social Impact / Customer Satisfaction	A fertilizer recommendation is the research-based management practices, for supplying fertilizer to the crop to achieve yield and quality goals (economic) in a manner that minimizes nutrient losses to the environment.

5.	Business Model (Revenue Model)	The AI model will be a cost-effective solution for agriculture. It eliminates the need for soil testing and the results are provided instantly and faster than conventional methods of crop disease prediction.
6.	Scalability of the Solution	The AI model developed can be scaled to predict the source of the disease when the crop leaf image is given as an input and also can be scaled to suggest suitable diseases fertilizer.