Project Design Phase-I
Proposed Solution

Date	09 October 2022
Team ID	PNT2022TMID10804
Project Name	Fertilizers recommendation system for disease prediction
Maximum Marks	2 Marks

Proposed Solution:

Project team shall fill the following information in proposed solution.

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	• The various illnesses that impact plant growth are the main reason for production loss in agricultural products.. • Due to a lack of expertise and outdated methods, farmers are unable to identify crop diseases. • The plant disease is one of the major problem in agricultural field. If the plant is affected by a leaf disease, it reduces the growth of Plant and productiveness.
2.	Idea / Solution description	• Image processing helps in identification of the plants specification and disease detection that helps in classifying the plants based on disease • Predicts the plant disease and recommend suitable fertilizers for the Plant. By using CNN, the software analysis the plant image and detect the disease and recommend fertilizers
3.	Novelty / Uniqueness	• The software advises both organic and inorganic fertilisers, and farmers can place online orders for the fertilisers that are readily accessible.
4.	Social Impact / Customer Satisfaction	• Complete irrigation data provided via cloud computing. • The quality and quantity of the produce are improved by recognising diseases early and recommending fertiliser.

5.	Business Model (Revenue Model)	• Helps farmers produce food goods in a good way and cuts down on production losses earlier. • Crop yield, crop efficiency, and agricultural product output will all rise with the suggested approach. • Agriculture output will expand significantly, and profit will be increased.
6.	Scalability of the Solution	• The proposed structure for precision agriculture enables the application of a flexible methodology that may be modified for various types of crops. • The software will predict accurate solution based on the trained data