Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID10926
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)	➢ The main cause of production loss in agriculture products is due to the different types of diseases that affect the plants growth. ➢ Farmers are unable to detect crop diseases due to a lack of knowledge and old practices. ➢ 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	➢ Farmer can order the available fertilizers in online and the software recommends both organic and inorganic fertilizers. ➢ Implement Smart Irrigation system For farms to get higher yield.
4.	Social Impact / Customer Satisfaction	➢ Providing Complete irrigation data through cloud computing. ➢ By identifying the diseases and recommending the fertilizer at the earlier stage helps in the improvement of production and the quality.

5.	Business Model (Revenue Model)	➢ Helps the farmers to make good production of food products and to reduce the production loss at an earlier stage. ➢ For crop yield prediction Support Vector Machine is good.
6.	Scalability of the Solution	➢ The software will predict accurate solution based on the trained data.