Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID12522
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)	Fertilizers Recommendation System for Disease Prediction – To predict the disease and recommend fertilizers for the same. Keeping in mind that agriculture is one of the most important sectors, integrating technology into the sector will allow farmers to simplify their work and increase their yields. One of the major problems in agriculture is predicting plant diseases and finding cures for them, so with this recommendation system any farmer can predict the disease and get recommendations for fertilizers.
2.	Idea / Solution description	To provide a solution that takes an image and predicts the disease and recommends fertilizers for that disease by using the machine learning techniques like SVM, CNN or any other. Fertilizer recommendation is going to recommend user the best fertilizer to use as per the disease affected and the crop. To overcome all the issues like which fertilizer to use and what is the disease this recommendation has been proposed. So, the basic idea is to build a model to recommend the best fertilizer for the disease.
3.	Novelty / Uniqueness	• Many new technologies, such as Machine Learning and Deep Learning, are being implemented into agriculture so that it is easier for farmers to grow and maximize their yield. • Multiple languages will be supported by the system. • Offers voice-assisted search to users.
4.	Social Impact / Customer Satisfaction	• As a result, the farmer will be able to identify the disease and get some fertilizer recommendations for that disease.

		• Easy to use and understand. • Efficient prediction mechanism with faster results. • Farmers can maximize their yields with the use of this system in agriculture.
5.	Business Model (Revenue Model)	The organization could boost its revenues by recommending fertilizer usage, analyzing disease outbreaks, and providing easy access to farmers with minimal subscriptions. **Funders:** • Incentives from Government **Token of exchange:** • Money **Price of the service:** • Dynamic – based on time duration
6.	Scalability of the Solution	• The project's backend will be implemented in Python Flask, which is compatible with any web browser. • Utilizing IBM Cloud services, it will function without sluggish loading or website prediction delays