

Project Design Phase-I
Proposed Solution Template

Date	27 September 2022
Team ID	PNT2022TMID33300
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 of the plants are affected by a wide variety of bacterial and fungal diseases. Diseases on plants placed a major constraint on the production and major threat to food security. Hence, early and accurate identification of plant diseases are essential to ensure high quantity and best quality. In recent years, the number of diseases on plants and degree of harm caused has increased due to the variation in pathogen varieties, changes in cultivation methods and inadequate plant protection techniques. An automated system is introduced to identify different diseases on plants by checking the symptoms shown on the leaves of the plant. Deep learning techniques are used to identify the diseases and suggest the precautions that can be taken for those diseases.
2.	Idea / Solution description	Leaf diseases are identified by using Support Vector Machine (SVM). It provides more accuracy than CNN method.
3.	Novelty / Uniqueness	Support Vector Machine (SVM) is used in this system.
4.	Social Impact / Customer Satisfaction	Economically friendly.
5.	Business Model (Revenue Model)	It provides more benefits profit to farmers who yield in their land and produces healthy crops.
6.	Scalability of the Solution	Diseases such as most leaf spots, root, dark spots and rusts in which plants are counted as disease whether they are exhibiting a disease of greater importance to the crop.

