

Project Design Phase-I
Proposed Solution Template

Date	26 September 2022
Team ID	PNT2022TMID33395
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 plants are affected by a wide variety of bacterial and fungal diseases. Diseases on plants placed a major constraint on the production and a major threat to food security. Hence, early and accurate identification of plant diseases is essential to ensure high quantity and best quality. In recent years, the 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.
2.	Idea / Solution description	An automated system is designed to identify different diseases on plants by checking the symptoms shown on the leaves of the plant. With the help of the artificial intelligence we can predict the diseases earlier and we can destroy the diseases at its root by using the proper fertilizer that is suitable. This Artificial Intelligence system recommends the right proportion of the fertilizer to be used in the land to maximize the production.
3.	Novelty / Uniqueness	Due to the arise of new diseases which cannot be identified by the farmers, they started to depend on new technologies to get more updated information on the specific diseases. With the help of Artificial Intelligence we are able to predict the diseases in advance and we can destroy them before they cause a massive loss. This AI system predicts the correct disease and recommends fertilizer which destroys the bacteria or fungus which caused the disease.

4.	Social Impact / Customer Satisfaction	User friendly application, the customer expect the correct prediction and identification of the disease. They expect better application performance and faster response to their feedback.
5.	Business Model (Revenue Model)	Making the business model strong leads to an ongoing business profit leading to increase in cash reserve and new investments. An application revenue model is an important element of a company concept or business plan, which should be completed before entering the development phase. Banner advertising, paid promotions, sponsored news, promoted content, campaign sponsorships, and subscription are just a few of the methods by which a news channel app may generate income.
6.	Scalability of the Solution	This model focuses on earlier prediction without any delay or any fault. This mainly focuses on the prediction and the recommendation to increase the yield. The measure of a system's ability to increase or decrease in performance and cost in response to changes in application.