

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID32673
Project Name	Project – fertilizers recommendation system
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)	<p>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.</p> <p>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.</p>
2.	Idea / Solution description	The purpose of the fertilizer recommendation system is to provide farmers with actionable fertilizer advice based on the photo uploaded in the app .
3.	Novelty / Uniqueness	The proposed method uses AI to classify tree leaves, identify the disease and suggest the fertilizer.
4.	Social Impact / Customer Satisfaction	They are quick in providing plant nutrients and restoring soil fertility Plants easily absorb fertilizers. Fertilizers improve and increase the productivity of many crops such as wheat, maize, and rice.
5.	Business Model (Revenue Model)	We can get extra money for identify the rare disease and suggesting fertilizers ,advertisements for there products ,transport charges
6.	Scalability of the Solution	This app can help large number of users not only for farmers .it will help for research purposes,educational sector and others

