

**Project Design Phase-I**  
**Proposed Solution Template**

Date	16 November 2022
Team ID	PNT2022TMID04159
Project Name	Project – Fertilizer Recommendation system for disease prediction
Maximum Marks	2 Marks

**Proposed Solution Template:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> <li>• Farmers are unable to detect crop diseases due to a lack of knowledge and old practices</li> <li>• Growing only certain crops depletes the soil and if the crops are harmed by illnesses</li> </ul>
2.	Idea / Solution description	<ul style="list-style-type: none"> <li>• Plant disease reduces the production and quality of food, fibre and biofuel crops. It has been a major factors that influencing the farmers life as well as our life.</li> <li>• To overcome this problem we develop this project to predict the plant if the crop is affected with which disease, and a viable remedy is then offered to the user.</li> </ul>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> <li>• Crop diseases detection using image processing in which user get pesticides based on disease images.</li> <li>• To predict the accurate disease for plant and crops we add more image dataset with wider variations are trained.</li> <li>• Most of the farmers are uneducated so we develop the system which is easily accessible by anyone.</li> </ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> <li>• Providing Complete irrigation data through cloud computing.</li> <li>• It helpful for farmers to increase productivity. Increase the usability of natural manure.</li> <li>• Efficient utilization of existing knowledge through artificial intelligence.</li> </ul>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> <li>• As long as this system is beneficial to users, subscriptions will increase which gives benefits to industry.</li> </ul>
6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>• Useful for those who don't know the basic about cultivation.</li> </ul>