

Project Design Phase-I
Proposed Solution Template

Date	20 october 2023
Team ID	Team-592396
Project Name	Project - Potato Disease Classification
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Identifying and classifying the healthy, early-blight and late-blight of potato plants.
2.	Idea / Solution description	Convolutional neural networks (CNNs) are used in the proposed approach to extract relevant features from the input images and categorize them into one of the three categories.
3.	Novelty / Uniqueness	Focusing on innovation, accuracy, adaptability, and user-friendliness that stands out in the field of potato disease classification. Performing classification with pixel-wise operation to enhance the number of leaf images
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none">● Minimize crop loss● Reduce cost● Protect the environment● Improve crop quality
5.	Business Model (Revenue Model)	<ul style="list-style-type: none">● Developing a user-friendly mobile app to classify potato diseases.● Partner with agricultural companies, cooperatives, or extension services to integrated models.● Providing consulting services to farmers.
6.	Scalability of the Solution	The machine learning model should be able to handle larger volumes of image data for disease classification. It should be designed in a way that allows it to be updated and retrained easily. The underlying infrastructure should be designed to handle increased traffic and data storage demands.