

Project Planning Phase
Milestone and Activity Plan

Date	25 October 2022
Team ID	PNT2022TMID27540
Project Name	Fertilizer Recommendation System for Disease Prediction

Milestone:

Majority of the farmers face problem of planting an inappropriate crop for their land based on non-scientific approach and the outcomes for the farmer for choosing the wrong crop for the land is moving towards quitting agriculture, ending their lives and giving land on lease to industrialist or use it for non-agricultural purposes. The outcome of wrong crop selection is less yield and less profit. The solution to the problem is Machine Learning (ML) which is one of the applications of Artificial Intelligence (AI), which is used to implement the proposed system. Crop recommendation is going to recommend the best crop one can grow in their land as per soil nutrition value and along with the climate in the region. The challenging task is to recommend the best fertilizer for every crop. An important issue is when a plant gets caught by heterogeneous diseases that effect on the agricultural production and quality. To overcome these issues this recommendation system has been proposed. The technique is used to build a recommendation model that combines the prediction of multiple ML. Models to recommend the right crop based on soil value and the best fertilizer to use.

Ideation Phase

Title	Description	Status
Literature Survey	Literature Survey on the selected projects & gathering information by referring the technical papers etc.	COMPLETED
Brainstorm and Idea prioritization	List the Idea's by organising the brainstorming session & prioritize the top 4 Ideas based on the Feasibility & Importance	COMPLETED
Problem Statement	List of problems in the project	COMPLETED
Prepare Empathy map	Prepare Empathy Map Canvas to capture the User Pains & Gains, prepare list of problem statements	COMPLETED

Project Design Phase – 1

Title	Description	Status
Proposed Solution	Prepare the Proposed Solution Document, which includes the Novelty, Feasibility of idea, social impact, Scalability of solution, etc.	COMPLETED
Problem Solution Fit	Prepare Problem – Solution Fit Document	COMPLETED
Solution Architecture	Prepare the Technology (Solution) Architecture diagram	COMPLETED

Project Design Phase – 2

Title	Description	Status
Customer Journey	Prepare the customer journey maps to understand the user interactions & experiences with the application	COMPLETED
Functional Requirement	Prepare the Functional Requirement Document	COMPLETED
Data Flow Diagram	Draw the data flow diagrams & submit for review	COMPLETED
Technology Architecture	Prepare the Technology Architecture Diagram	COMPLETED

Project Planning Phase

Title	Description	Status
Prepare Project Planning & Sprint Delivery Plan	Prepare the Product Backlog, Sprint planning, stories & Story points	COMPLETED
Prepare Milestone & Activity List	Prepare the Milestones & activity list of the project	COMPLETED

Project Development Phase

Project Development Delivery of Sprint1,2,3,4	Develop & submit the developed code by testing it.	IN-PROGRESS
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