Project Initialization and Planning Phase

Date	15 November 2024
Team ID	739824
Project Name	Fertilizer Recommendation System for Agriculture Using AI
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

The Fertilizer Recommendation System for Agriculture Using AI is a data-driven solution that aims to optimize crop productivity by providing personalized fertilizer recommendations to farmers. By analyzing soil properties, crop types, weather conditions, and historical yield data, this system employs AI algorithms to suggest the most suitable fertilizer types, quantities, and application methods for each field. The goal is to enhance nutrient management practices, improve crop yields, and promote sustainable agriculture.
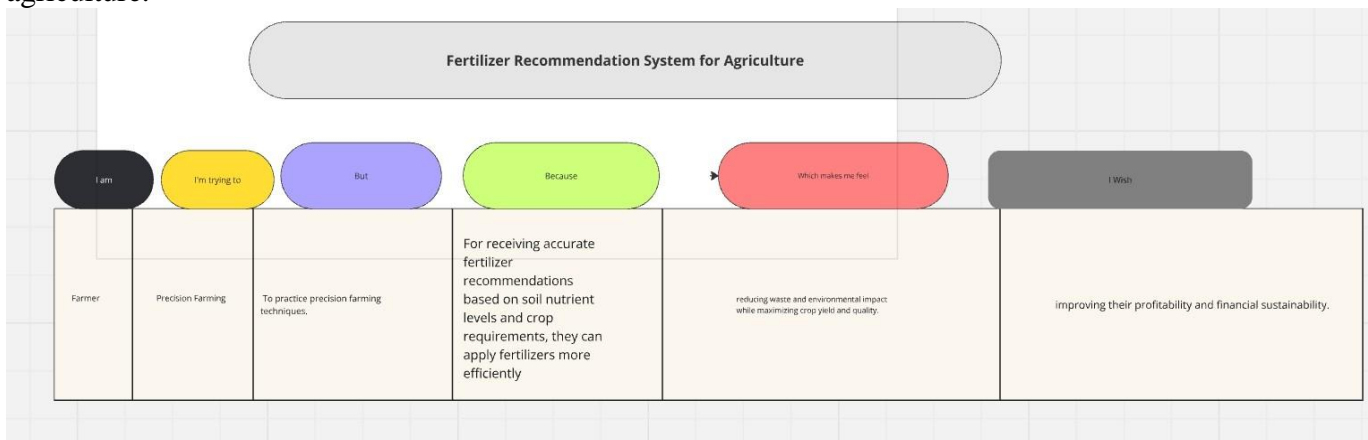
Problem Statement (PS)	I am (Farmer)	I'm trying to	But	Because	Which makes me feel
PS-1	**Precision Farming**	practice precision farming techniques.	No proper analyzing soil properties, crop types, weather conditions.	They can apply fertilizers more efficiently, reducing waste .	maximizing crop yield and qualitymaximizing crop yield and quality.
PS-2	Soil Health Monitoring	gathers data on soil nutrient levels and crop performance.	They enables to monitor soil health trends.	farmers can make informed decisions regarding soil fertility management.	crop rotation strategies, and long-term soil health preservation.