

Ideation Phase

Define the Problem Statements

Date	13 March 2025
Team ID	PNT2025TMID07046
Project Name	Predicting Plant Growth Stages with Environmental and Management Data
Maximum Marks	2 Marks

Customer Problem Statement :

Here is the Customer Problem Statement **Predicting Plant Growth Stages with Environmental and Management Data.**

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A farmer managing multiple crop fields.	Improve plant growth and crop yield by optimizing soil, water, and fertilizer usage.	I lack accurate, data-driven insights to determine the best environmental conditions for different plant types.	Traditional farming methods rely on experience rather than real-time analytics .	Uncertain about resource allocation and frustrated with inconsistent crop growth .
PS-2	An agritech company developing smart farming solutions .	Implement data-driven decisionmaking using Power BI analytics to support farmers.	There is no clear way to visualize and predict plant growth stages using available data.	Existing tools lack integration between environmental factors like soil type, temperature, and water frequency .	The need for an interactive dashboard that helps farmers optimize agricultural practices efficiently.