

**Ideation Phase**  
**Define the Problem Statements**

Date	19 March 2025
Team ID	PNT2025TMID06908
Project Name	<b>Predicting Plant Growth Stages with Environmental and Management Data</b>
Maximum Marks	2 Marks

**Customer Problem Statement :**

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

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