**Ideation Phase**

**Define the Problem Statements**

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| Date | 19 March 2025 |
| Team ID | PNT2025TMID06908 |
| 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.**

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| **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 agrotech company developing **smart farming solutions**. | Implement **data-driven decision-making** using **Power BI analytics** to support farmers. | Using available data, there is no clear way to visualize and predict plant growth stages. | Existing tools **lack integration** between environmental factors like **soil type, temperature, and water frequency**. | There is a need for an **interactive dashboard** that helps farmers optimize agricultural practices efficiently. |