**Project Initialization and Planning Phase**

| Date | 5 October 2025 |
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| Team ID | SWUID20250216152 |
| Project Name | Predicting plant growth stages with environmental and management factors. |
| Maximum Marks | 3 Marks |

**Define Problem Statements (Customer Problem Statement Template):**

XYZ Company faces challenges in maintaining consistent plant growth due to varying environmental and management factors like soil type, sunlight, watering, fertilizer use, temperature, and humidity.  
 Currently, data from multiple greenhouses is scattered and difficult to analyze, making it hard to identify optimal growing conditions.

To overcome this, the company aims to develop a Power BI-based solution that visualizes data, identifies growth patterns, and predicts plant growth stages. This will help improve crop yield, optimize resource use, and support data-driven farming decisions.

| **I am** | An agricultural data analyst at XYZ Company working to improve plant growth outcomes. |
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| **I’m trying to** | Understand how environmental and management factors (like soil type, sunlight, water frequency, fertilizer type, temperature, and humidity) affect plant growth stages. |
| **But** | The data from multiple greenhouse locations is complex and scattered, making it difficult to visualize and identify the best conditions for optimal growth. |
| **Because** | Traditional methods of observation and manual analysis are slow, inconsistent, and prone to human error. |
| **Which makes me feel** | Frustrated that I can’t easily pinpoint the right combination of factors that ensure healthy and consistent plant growth. |