

Project Initialization and Planning Phase

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| Date | 5 Feb 2026 |
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| Project Name | greenclassify: deep learning-based approach for vegetable image |

Define Problem Statements (Customer Problem Statement Template):

Problem Statement 1: Vegetable Processing Facility Manager

| Section | Description |
|----------------------------|--|
| I am | A manager of a large vegetable processing facility. |
| I'm trying to | Efficiently sort and categorize incoming shipments of mixed vegetables to maintain a smooth and timely production process. |
| But | Manual sorting is slow, prone to human error, inconsistent in quality assessment, and leads to production bottlenecks and delays. |
| Because | Current methods are labor-intensive, lack standardization, and struggle to handle high volumes, resulting in significant inefficiencies and increased costs. |
| Which makes me feel | Frustrated, stressed, and concerned about meeting production deadlines and maintaining product quality. |

Problem Statement 2: Agricultural Distributor

| Section | Description |
|----------------------------|---|
| I am | A distributor of fresh produce to grocery stores and restaurants. |
| I'm trying to | Maintain consistent quality standards and ensure the freshness of the vegetables I supply to my customers. |
| But | Evaluating the quality and freshness of large volumes of vegetables received from various farms is time-consuming and difficult using current manual methods. |
| Because | Inconsistent quality leads to customer complaints, returns, and potential food waste. |
| Which makes me feel | Anxious about meeting customer expectations and concerned about the financial impact of product loss. |

Problem Statement 3: Retail Grocery Store Manager

| Section | Description |
|----------------------------|--|
| I am | A manager of a grocery store's produce section. |
| I'm trying to | Accurately manage inventory levels, minimize waste, and ensure that customers always find fresh vegetables on the shelves. |
| But | Manually tracking inventory is prone to errors, leading to stockouts, overstocking, and increased food waste. |
| Because | Stockouts result in lost sales opportunities, while overstocking leads to spoilage and financial losses. |
| Which makes me feel | Overwhelmed by the complexity of inventory management and concerned about minimizing losses. |