# ****Ideation Phase – Define the Problem Statement****

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| **Date:** | **26 JUNE 20-25** |
| **Team ID:** | LTVIP2025TMID43771 |
| **Project Name:** | Smart Sorting: Transfer Learning for Identifying Rotten Fruits and Vegetables |
| **Maximum Marks:** | **:** 2 Marks |

## 🎯 ****Customer Problem Statement Template****

| **Problem Statement (PS)** | **I am (Customer)** | **I’m trying to** | **But** | **Because** | **Which makes me feel** |
| --- | --- | --- | --- | --- | --- |
| **PS-1** | A small-scale fruit/vegetable seller or farmer | Quickly and accurately identify rotten produce during sorting | I don’t have access to affordable or automated sorting tools | Manual sorting is slow, subjective, and often leads to mixing of spoiled items with fresh ones | Frustrated, overwhelmed, and worried about losing customers or income |
| **PS-2** | A warehouse or distributor handling large volumes of produce | Reduce food wastage and improve supply chain efficiency | It’s hard to inspect every item manually and maintain consistent quality | Human inspection is prone to fatigue, inconsistency, and errors | Disappointed, concerned about operational inefficiency and customer dissatisfaction |

## ✅ Summary:

These problem statements emphasize the **real pain points** experienced by two key customer groups:

**Small farmers/vendors** lacking automation or technical expertise.

**Larger supply chain stakeholders** who face scalability and quality consistency issues.

This understanding helps ensure that the **Smart Sorting system** offers tangible value in both accessibility and efficiency, making it a relevant and empathetic solution.

Let me know if you’d like this converted to a Word or PDF file with visual enhancements.