

Ideation Phase


Define the Problem Statements

Date	19 February 2026
Team ID	LTVIP2026TMIDS64562
Project Name	Smart Sorting: Transfer learning for rotten fruits and vegetables
Maximum Marks	2 Marks

Customer Problem Statement Template:

The customers are visiting the supermarkets to buy the good quality assured fruits and vegetables, but they failed to select the good fruits and vegetables because the supermarkets are can't able to differ the rotten and healthy fruits and vegetables. The customers want to make the good quality assured fruits and vegetables to be arranged in the various clusters. The classification of the rotten and healthy fruits and vegetables by man power is time taken process and not cost-effective. To overcome these problems faced by customers, our team decided to develop and deploy a model that identifies the condition of the fruit or vegetable, either rotten or healthy, and classifies the items into healthy and rotten categories. Thus, the supermarkets can able to identify the rotten items and dispose them and healthy ones will be placed in various clusters

Customer Problem Statement Template

	I am	I'm trying to	But	Because	Which makes me feel
	Customer	Buy fresh fruits	Supermarket have a clumsy of rotten and healthy fruits	Poor maintainence in supermarket	Angry and frustated

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel

PS-1	Food Quality Manager	Quickly identifies rotten fruits and vegetables in large batches	Manual inspection is slow, inconsistent and prone to error	We need to process hundreds of items daily with limited staff	Frustrated and concerned about missing spoiled produce
PS-2	Small Grocery Store Owner	Maintain consistent food quality standards	I lack expertise to identify early stages of spoilage	Customer complaints about quality affect my business reputation	Anxious about food safety and business reputation