

## Ideation Phase

### Define the Problem Statements

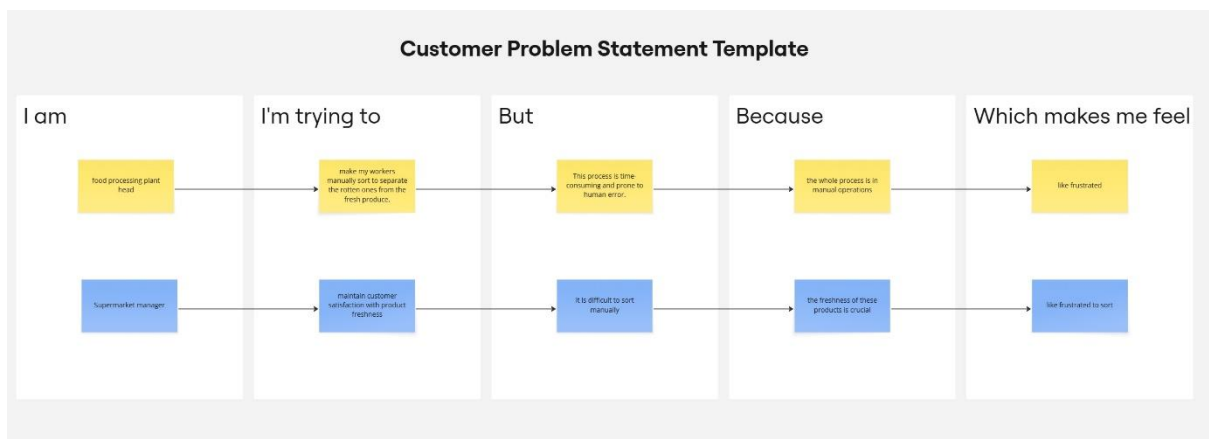
Date	27 June 2025
Team ID	LTVIP2025TMID59811
Project Name	Smart Sorting: Transfer Learning for Identifying Rotten Fruits and Vegetables
Maximum Marks	2 Marks

#### Customer Problem Statement Template:

Post-harvest losses due to spoiled produce affect both retailers and consumers. Traditional visual sorting techniques fail to keep up with high volumes and often miss early signs of rot. This project uses transfer learning to build an image-based classification system that distinguishes fresh fruits and vegetables from rotten ones. This automation helps ensure food quality, reduce wastage, and boost consumer trust.

<b>I am</b>	Describe customer with 3-4 key characteristics - <i>who are they?</i>	Describe the customer and their attributes here
<b>I'm trying to</b>	List their outcome or "job" the care about - <i>what are they trying to achieve?</i>	List the thing they are trying to achieve here
<b>but</b>	Describe what problems or barriers stand in the way - <i>what bothers them most?</i>	Describe the problems or barriers that get in the way here
<b>because</b>	Enter the "root cause" of why the problem or barrier exists - <i>what needs to be solved?</i>	Describe the reason the problems or barriers exist
<b>which makes me feel</b>	Describe the emotions from the customer's point of view - <i>how does it impact them emotionally?</i>	Describe the emotions the result from experiencing the problems or barriers

Reference: <https://miro.com/templates/customer-problem-statement/>



<b>Problem Statement (PS)</b>	<b>I am (Customer)</b>	<b>I'm trying to</b>	<b>But</b>	<b>Because</b>	<b>Which makes me feel</b>
PS-1	food processing plant head	make my workers manually sort to separate the rotten ones from the fresh produce.	this process is time-consuming and prone to human error.	the whole process is in manual operations	like frustrated
PS-2	Supermarket manager	maintain customer satisfaction with product freshness	it is difficult to sort manually	the freshness of these products is crucial	like frustrated to sort