Project Design Phase
Problem – Solution Fit Template

Date	28 June 2025
Team ID	LTVIP2025TMID41507
Project Name	Smart Sorting: Transfer Learning for Identifying Rotten Fruits and Vegetables
Maximum Marks	2 Marks

Problem – Solution Fit Template:
The Problem–Solution Fit means ensuring that the proposed image-based classification system for fruits and vegetables truly addresses the real needs of consumers, vendors, and small-scale retailers by offering a simple, accessible, and efficient solution to detect spoilage.

Purpose:

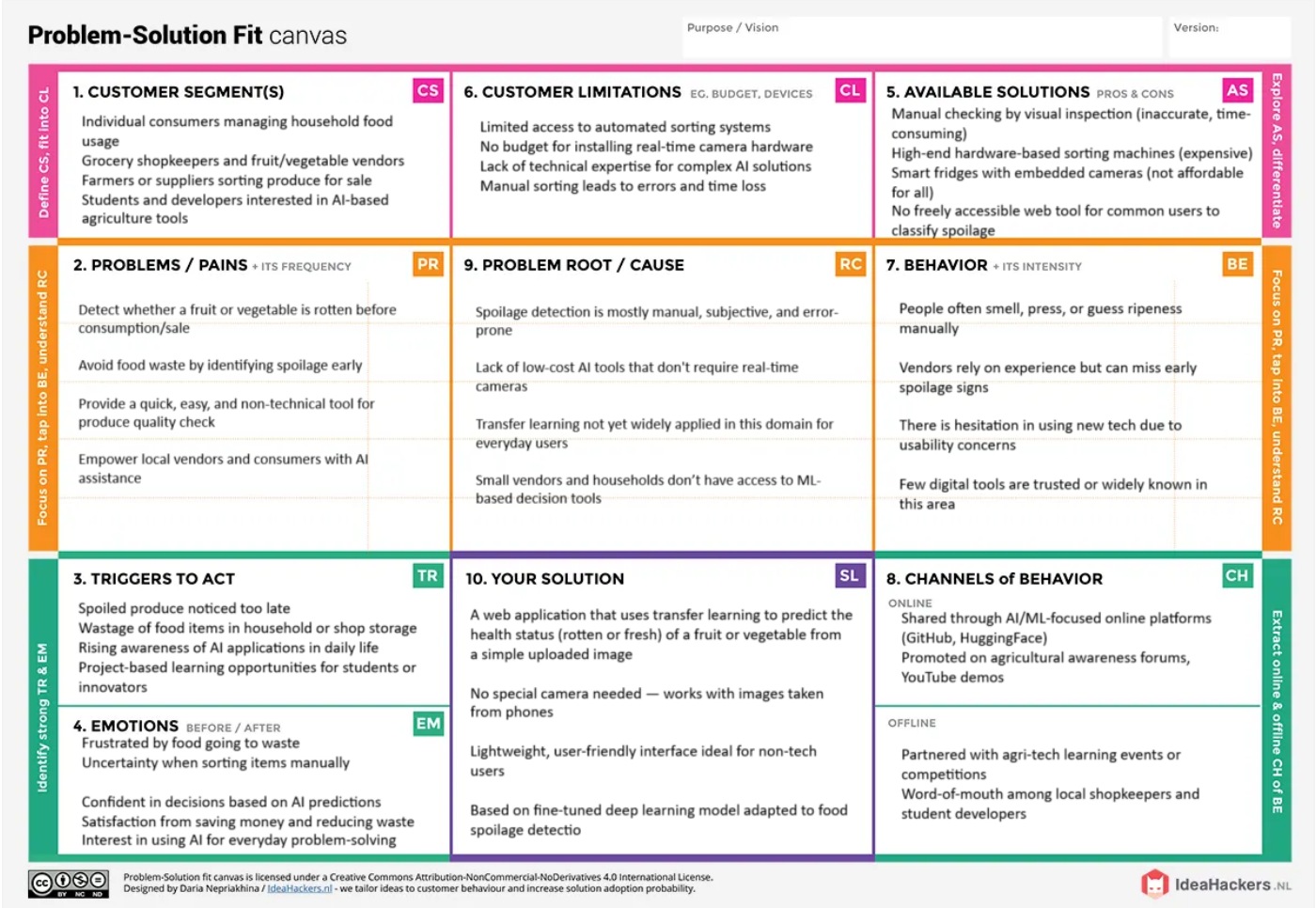
Solve a common real-world issue by automating the identification of rotten fruits and vegetables using machine learning and image analysis, removing the need for expensive equipment or expert inspection.

Accelerate user adoption by delivering a **web-based platform** where users can simply upload a fruit or vegetable image to receive instant feedback — no technical knowledge required.

Sharpen communication and decision-making by using **visual and confidence-based output** that helps users understand the result and act on it (e.g., consume soon, discard).

Understand the current gap in accessible quality assessment tools, and provide a **technological solution** that is lowcost, portable (via browser), and scalable to broader food quality use cases.

Template:



References: 1.https://www.ideahackers.network/problem-solution-fit-canvas/
2.https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe