

Project Design Phase
Problem – Solution Fit Template

Date	15 February 2025
Team ID	LTVIP2026TMID91218
Project Name	Transferred learning identification of rotten fruits and vegetables
Maximum Marks	2 Marks

Problem – Solution Fit Template:

Problem Statement

Farmers, vendors, retailers, and quality inspectors face significant challenges in identifying rotten fruits and vegetables at an early stage. The current inspection process is mostly manual, time-consuming, inconsistent, and dependent on human judgment. As a result, spoiled produce often goes unnoticed until visible decay appears, leading to increased food wastage, financial loss, and reduced customer trust. The absence of an automated and reliable quality-checking system makes it difficult to maintain consistent food quality across the supply chain.

Customer Behavior & Existing Situation

- Customers rely on visual inspection to check quality
- Quality checking is done after spoilage becomes obvious
- Decisions are based on experience rather than data
- Limited time and labor for large-scale inspection
- High losses due to delayed identification of rotten produce

Problem-Solution Fit Canvas

Project: Rotten Fruits & Vegetables Identification using Transfer Learning

