**Project Design Phase**

**Problem – Solution Fit Template**

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| Date | 25 June 2025 |
| Team ID | LTVIP2025TMID32541 |
| 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 we've identified a real-world problem faced by our users (vendors, consumers, retailers) and developed an AI-powered solution that effectively addresses it — helping ensure the quality of fruits and vegetables in a reliable, fast, and non-expert way.

**Purpose:**

* **Solve quality-check problems** in fruits and vegetables by allowing users to upload images and receive AI-based classification as *Healthy* or *Rotten*.
* **Increase adoption** by making the solution easy to use via a web application — no technical knowledge required.
* **Sharpen user communication** by showing confidence scores and clear messages like *“Good to Eat”* or *“Don’t Eat”*, helping users trust the prediction.
* **Increase daily engagement** by addressing a frequent and costly problem: unknowingly selling or consuming spoiled produce.
* **Understand current vendor and consumer behavior,** where decisions are made by guesswork or surface appearance, and improve it with accurate machine learning predictions.

**Template:**

