

# Problem-Solution Fit Template

Date	19 January 2026
Team ID	LTVIP2026TMIDS83701
Project Name	Smart Sorting: Transfer learning for identifying Rotten Fruits and Vegetables
Maximum Marks	4 Marks

This template helps to articulate and validate the fit between a defined problem and a proposed solution.

## 1. Problem Definition

### 1.1. The Problem

- **What is the core problem?** (Describe the pain point, unmet need, or challenge)
- **Who experiences this problem?** (Target user/customer segment)
- **How frequently do they experience it?**
- **What are the current workarounds or alternatives?**
- **What are the consequences of not solving this problem?** (Impact on users/business)

### 1.2. Problem Validation

- **Evidence of the problem:** (e.g., customer interviews, surveys, market research, data analysis, existing solutions' shortcomings)

- Key insights from validation:
- Is this problem significant enough to warrant a solution? (Why?)

## 2. Solution Definition

### 2.1. The Proposed Solution

- What is the core idea of the solution? (Brief, high-level description)
- How does it address the identified problem? (Specific features/functionalities)
- What makes this solution unique or better than existing alternatives? (Value proposition)

### 2.2. Solution Details

- Key features/components:
- User experience (UX) considerations:
- Technology/resources required:

## 3. Problem-Solution Fit Analysis

### 3.1. Alignment

- How directly does the solution solve the core problem?
- Does the solution address the most critical aspects of the problem?
- Is the solution desirable for the target users? (Why?)

### **3.2. Value Proposition Clarity**

- Is the value proposition clear and compelling?
- Can users easily understand how the solution benefits them?

### **3.3. Feasibility & Viability**

- Is the solution technically feasible?
- Is it economically viable? (Potential revenue, cost structure)
- Are there any major risks or assumptions?

## **4. Next Steps**

- What further validation is needed? (e.g., prototyping, user testing, pilot programs)
- Key metrics to track for problem-solution fit:
- Action items: