

# 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:**