Project Design Phase Problem – Solution Fit Template

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| Date | 28 June 2025 |
| Team ID | LTVIP2025TMID28937 |
| Project Name | Cafeteria Menu Display |
| Maximum Marks | 2 Marks |

# Problem – Solution Fit Template:

A problem-solution fit template in the design phase of a cafeteria management system helps ensure that the proposed system effectively addresses the identified problems of the cafeteria's users (students, faculty, staff, etc.). This template guides the design process by focusing on understanding user needs, defining problems, and crafting solutions that fit those needs, ultimately increasing the likelihood of the system being adopted and used effectively.

**1. Define Customer Segment**:

\* Identify: Begin by identifying the different user groups of the cafeteria (e.g., students, faculty, staff, visitors).

\* Understand: For each segment, understand their specific needs, pain points, and behaviors related to the cafeteria. For example:

• Students: May be price-sensitive, want quick service, and need options for dietary restrictions.

• Faculty/Staff: May have specific dietary needs, prefer a more relaxed dining experience, and potentially need options for catering.

**2. Identify Problems and Jobs to be Done:**

\* Brainstorm: Based on the customer segments, brainstorm the problems they face related to the cafeteria. These could include:

• Long lines during peak hours

• Inconvenient payment methods

• Lack of information about daily specials or menu items

\* Prioritize: Determine which problems are the most significant and frequent for each segment.

\* "Jobs to be Done": Frame the problems as "jobs to be done" – what is the user trying to achieve when they encounter this problem? For example:

• "I want to order lunch quickly and efficiently."

• "I want to know what vegetarian options are available today."

• "I want to find a comfortable place to sit and eat."

**3. Develop Solution Ideas:**

\* Brainstorm: For each identified problem, brainstorm potential solutions.

\* Consider User Limitations: Think about the limitations of the users and the context of the cafeteria. For example, some users may not be tech-savvy, and the system needs to be user-friendly.

\* Evaluate: Evaluate the feasibility and effectiveness of each solution, considering factors like cost, implementation complexity, and user experience.

**4. Design the System:**

\* Translate Problems into Features: Based on the chosen solutions, design the features of the cafeteria management system. For example:

• Long lines during peak hours: Implement online ordering with pre-order and pickup options.

• Inconvenient payment methods: Integrate multiple payment options, including mobile payments.

• Lack of information: Develop a mobile app or website with real-time menu updates, dietary information, and nutritional information.

• Difficulty finding vegetarian or vegan options: Create a filtering system within the app/website to easily identify these options.

\* User Interface (UI) and User Experience (UX): Focus on designing an intuitive and user-friendly interface for all users, considering the different technical capabilities of the user groups.

**5. Test and Validate:**

\* Prototype: Create prototypes of the system and test them with users from each segment.

\* Feedback: Gather feedback on the usability, effectiveness, and overall satisfaction with the system.

\* Iterate: Make necessary changes based on the feedback to ensure the system effectively addresses the identified problems.

# Purpose:

* Identify the Target Audience.
* Define the Core Problem.
* Highlight User Frustrations.
* Introducing the Proposed Solution.
* Explain the Key Features of the Solution.
* Show How It Solves the Problem.
* State the Final Outcome or Benefit.

# Template:

References:

1. [https://www.slideteam.net/problem-solution-and-outcome-weather-condition-ppt-powerpo](https://www.slideteam.net/problem-solution-and-outcome-weather-condition-ppt-powerpoint-presentation-icon-rules.html) [int-presentation-icon-rules.html](https://www.slideteam.net/problem-solution-and-outcome-weather-condition-ppt-powerpoint-presentation-icon-rules.html)