**Project Design Phase**

**Problem – Solution Fit Template**

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| Date | 6 March 2025 |
| Team ID | SWTID1741257978145975 |
| Project Name | COOK BOOK |
| Maximum Marks | 2 Marks |

**Problem – Solution Fit Overview**  
CookBook is a culinary recipe management web application aimed at enhancing the way users discover, organize, and create recipes. The Problem-Solution Fit ensures that the identified problem aligns with users' needs and that the proposed solution effectively addresses it. By leveraging modern web technologies, CookBook provides a seamless user experience for both home cooks and professional chefs.

**Purpose**

* Address the lack of a structured and personalized recipe discovery platform for users seeking healthy, quick, or ingredient-based meal options.
* Provide an intuitive, engaging interface for users to explore, save, and manage recipes based on dietary preferences and available ingredients.
* Ensure seamless navigation and real-time data retrieval using TheMealsDB API to enhance user experience.
* Improve accessibility and engagement through a responsive, scalable UI design and well-structured data flow.

**Problem Statement**  
Many cooking enthusiasts struggle to find organized, reliable, and customizable recipe recommendations. Existing platforms often lack effective filtering options, require paid memberships, or provide unstructured data, making it challenging for users to find suitable recipes that match their preferences, ingredients, or dietary restrictions.

**Solution**

* **CookBook:** A React.js-based Recipe Web Application that offers a structured and user-friendly interface to explore and manage recipes.
* **API Integration:** Seamless integration with TheMealsDB API ensures users access a vast collection of recipes with up-to-date details about ingredients and preparation methods.
* **Smooth Data Retrieval:** Axios-powered API requests ensure efficient, low-latency data fetching.
* **Improved Accessibility:** Categorization, filtering, and search functionalities provide a streamlined experience for users.
* **Scalable UI Design:** Responsive design ensures compatibility across various devices, enhancing user interaction.