**Project Design Phase**

**Proposed Solution Template**

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

**Proposed Solution Template:**

Project team shall fill the following information in the proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Many home cooks and food enthusiasts struggle to find well-structured, customizable, and reliable recipe recommendations. Existing platforms either require paid memberships, lack filtering options, or provide unstructured data, making it challenging to find suitable recipes based on preferences, ingredients, or dietary needs. |
|  | Idea / Solution description | **CookBook** is a React.js-based Recipe Web Application designed to simplify recipe discovery and management. It provides users with a clean, user-friendly interface to search, filter, and save recipes. By integrating with TheMealsDB API, it offers real-time access to detailed recipe information, categorized meal options, and nutritional data. The application ensures seamless data retrieval using Axios for improved user experience. |
|  | Novelty / Uniqueness | CookBook offers free, structured access to a wide variety of categorized recipes, including diet-friendly and ingredient-based options. Its interactive UI enhances user engagement, providing a personalized cooking experience. Future enhancements include AI-based recommendations and user-generated recipe submissions. |
|  | Social Impact / Customer Satisfaction | CookBook promotes healthier eating habits by providing users with detailed nutritional information and advanced filtering options. It helps reduce food waste by suggesting recipes based on available ingredients, encouraging sustainable cooking practices, and enhancing overall user satisfaction. |