**Project Design Phase**

**Proposed Solution Template**

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| Date | 10 March 2025 |
| Team ID | SWTID1741104197 |
| Project Name | CookBook: Your Virtual Kitchen Assistant |
| Maximum Marks | 4 Marks |
| Team Leader | Bhuvaneshwarar T |
| Team Member | Naveen kumar M |
| Team Member | Santhosh R |
| Team Member | Sugan M |

**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 users struggle to find well-structured, personalized, and easy-to-follow recipes. Existing platforms either require paid memberships, lack filtering options, or provide unstructured data, making meal planning and cooking difficult. |
|  | Idea / Solution description | A React.js-based Recipe Web Application that allows users to search, filter, and save recipes based on ingredients, dietary preferences, and meal type. The application integrates with a recipe API (e.g., ThemealsDB, Edamam) to provide real-time access to recipe details, nutritional values, and ingredient substitutions. |
|  | Novelty / Uniqueness | Free and structured access to categorized, diet-friendly, and ingredient-based recipes with an intuitive and user-friendly interface. Features include personalized meal planning, AI-based recommendations, and interactive cooking guides to enhance user engagement. |
|  | Social Impact / Customer Satisfaction | Encourages healthier eating habits by making nutritional information and diet-based filtering easily accessible. Helps users reduce food waste by providing recipes based on available ingredients, promoting sustainability and cost-effective cooking. |