**Project Design Phase**

**Proposed Solution Template**

| Date | 6 March 2025 |
| --- | --- |
| Team ID | SWTID1741088905 |
| Project Name | Recipe Book |
| Maximum Marks | 2 Marks |
| TEAM MEMBERS | Charukesini.M - [charukesinimariappan@gmail.com](mailto:charukesinimariappan@gmail.com) |
|  | Janani.K - [jananijanani237@gmail.com](mailto:jananijanani237@gmail.com) |
|  | Shivaranjini.D - [shivaranjinidhandapani3113@gmail.com](mailto:shivaranjinidhandapani3113@gmail.com) |
|  | Bava Dharani.S- [sbavadharani7@gmail.com](mailto:sbavadharani7@gmail.com) |
|  | Devisree.K - [sreejothi213@gmail.com](mailto:sreejothi213@gmail.com) |

**Proposed Solution Template:**

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

| **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. |