

Project Design Phase
Proposed Solution Template

Date	6 March 2025
Team ID	148903
Project Name	CookBook : Your Virtual Kitchen Assistant
Maximum Marks	2 Marks

Proposed Solution Template:

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

S.No.	Parameter	Description
1.	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.
2.	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.
3.	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.
4.	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.