**Project Design Phase**

**Solution Architecture**

| Date | 6 March 2025 |
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| Team ID | SWTID1741244687146871 |
| Project Name | Recipe app |
| Maximum Marks | 4 Marks |
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**Solution Architecture:**

The solution architecture for the Recipe Application ensures a scalable, efficient, and user-friendly platform for discovering, saving, and managing recipes with real-time ingredient suggestions and nutritional information.

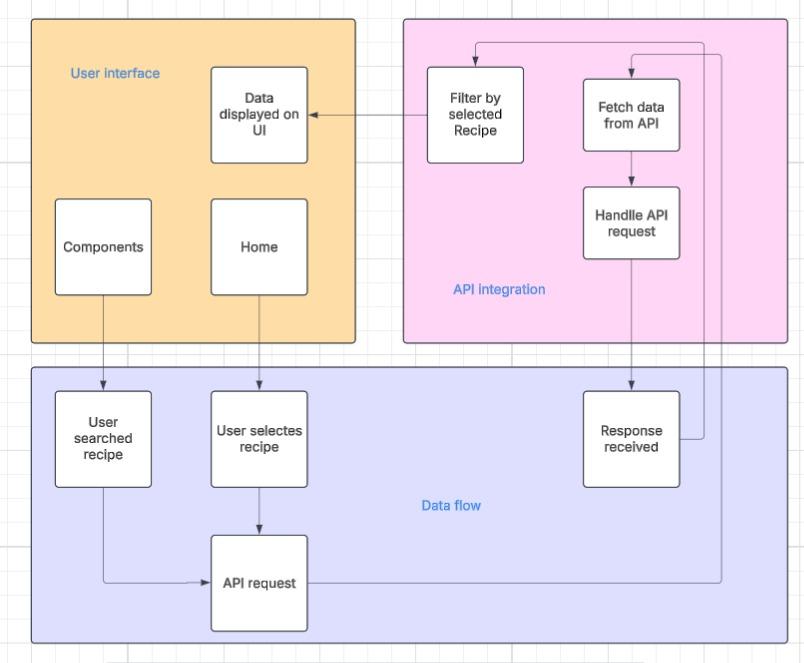
**Goals of the Solution Architecture:**

**Identify the Best Tech Solution:**• Utilize modern front-end frameworks (React.js) and APIs (TheMealsDB API) to provide a seamless and interactive recipe discovery experience.

**Define Structure & Characteristics:**  
• Ensure a modular, scalable, and maintainable software architecture that supports future feature enhancements like personalized meal planning and AI-based recipe recommendations.

**Outline Features & Development Phases:**  
• Clearly define project milestones, including UI/UX design, API integration, database structuring, and deployment strategy.

**Establish Specifications for Development & Delivery:**  
• Provide well-defined guidelines for system architecture, API integrations, data flow, and recipe data handling.  
• Implement a high-performance backend to support large-scale user requests for recipe searches, filtering, and personalized recommendations without delays.

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