

## Overview:

I want to create a website that makes it easy for users to plan their meals. What sets my site apart from existing ones is that many platforms have features locked behind paywalls. For example, being able to view all macronutrients or save recipes to your profile.

I also want my website to help students create affordable meals, especially for those with limited funds and equipment. I know many students who only have access to one stovetop burners and maybe a microwave.

1. **Shopping List Generator:** Automatically generates shopping lists based on selected recipes, so users have everything they need without the stress of last-minute grocery runs.
2. **Community Engagement:** A forum for users to share recipes and tips on making affordable, nutritious, and easy meals.
3. **Nutritional Insights:** Each recipe includes detailed nutritional information, helping users make informed decisions about their meals.

By focusing on these elements, the website will not only make cooking easier but also inspire healthier eating habits and foster a sense of community among food enthusiasts.

Priority user stories:

### **User Story 1: Grocery List Organization**

**As a meal prep enthusiast,** I want to generate a grocery list based on my selected recipes so that I can shop efficiently and ensure I have all the ingredients I need for the week ahead.

### **User Story 2: Easy Recipe Access**

**As a novice cook,** I want to browse simple, step-by-step recipes with clear instructions and ingredient lists so that I can confidently prepare delicious meals without feeling overwhelmed.

### **User Story 3: Detailed Nutritional Breakdown**

**As a fitness enthusiast,** I want to view comprehensive nutritional information for each recipe, including calorie counts, macronutrient ratios, and ingredient benefits, so that I can make informed choices that align with my dietary regimen.

## **Functional Requirements**

### **1. User Profiles:**

- Allow users to create and manage profiles, including dietary preferences and restrictions.

### **2. Recipe Database:**

- Maintain a searchable database of recipes, categorized by meal type, cuisine, and dietary needs (e.g., vegetarian, gluten-free).

### **3. Grocery List Generator:**

- Enable users to select recipes and automatically generate a grocery list that consolidates ingredients, including quantities needed.

### **4. Nutritional Information Display:**

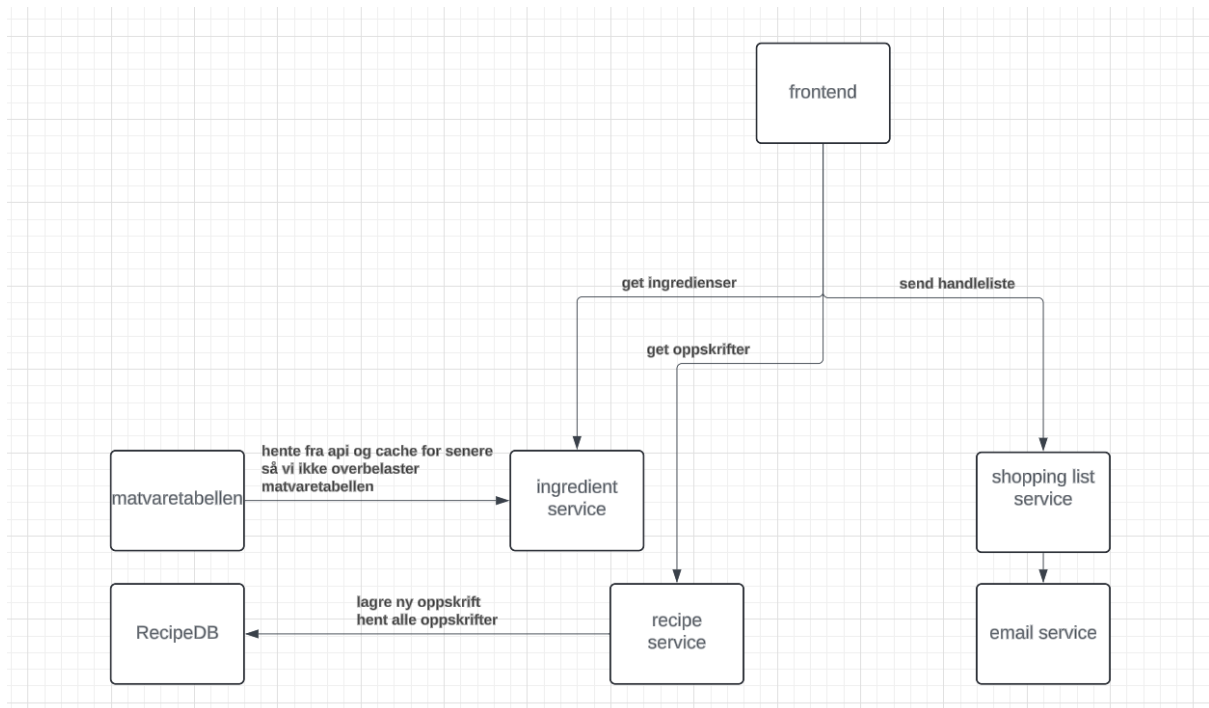
- Display detailed nutritional breakdowns for each recipe, including calories, macronutrients (carbs, proteins, fats), and micronutrient highlights.
- Provide ingredient-specific benefits to educate users on nutritional value.

### **5. Meal Planning Feature:**

- Allow users to create meal plans based on selected recipes for the week, with the option to adjust servings and portions.

Architecture overview:

for an MVP I think this would work:



Preferably I would make something more like this:

