

Problem 1

Pitch

Provide a Web App idea along with two user stories to justify the functional requirements and non-functional requirements. Definitions:

- *User requirements*: Statements in natural language plus diagrams of the services the system provides and its operational constraints. Written for customers.
- *System requirements*: A structured document setting out detailed descriptions of the system's functions, services and operational constraints. Defines what should be implemented so may be part of a contract between client and contractor.
- *Functional requirements*: Describe functionality or system services. Depend on the type of software, expected users and the type of system where the software is used. Functional user requirements may be high-level statements of what the system should do.

Solution:

I am in the same group with Ryan (hally@oxy.edu) and Michelle (mlxs@bu.edu)

User Story 1: A Young Business Woman

"As a health-conscious user, I want to be able to plan my meals for the week, so I can maintain a balanced diet and manage my grocery shopping efficiently."

Functional Requirements:

1. The system should allow users to add recipes to a meal plan for specific days and meals (e.g., breakfast, lunch, dinner, snacks). Here, *efficiency and consistency* are important.
2. The system should display a summary of the nutritional values for each planned meal and for the whole day. (Because she wants to be able to plan the meals for each week before the week starts.)
3. The system should allow the user to edit and remove planned meals.
4. The system should generate a shopping list based on the ingredients needed for the planned meals. (additional to item 2)

Non-Functional Requirements:

1. The meal planner should have an intuitive and user-friendly interface.
 2. The process of adding, editing, and removing meals should be quick and responsive.
 3. The user's meal plans and personal information should be stored securely. (This is important but not stressed here)
 4. The meal planner should be accessible at any time.
 5. The system should be able to handle a large number of users creating meal plans simultaneously. (Scaling, later!).
-

User Story 2: A Senior Vegan Man

"As a vegan user, I want to find new vegan recipes, try them, and rate them, so I can expand my cooking repertoire and share my cooking experiences with others."

Functional Requirements:

1. The system should allow users to search and filter recipes based on various parameters (e.g., dietary preferences, meal type, cooking time).
2. The system should present the recipes with details including ingredients, cooking instructions, and nutritional information.
3. The system should allow users to rate recipes on a scale and write a review. *(Add rating system)*
4. The system should update the average rating for each recipe based on new ratings.

Non-functional Requirements:

1. The search and filter functionality should be easy to use. The recipe details should be clearly readable.
 2. The search results should load quickly. The update of recipe ratings should be real-time.
 3. The user's ratings, reviews, and personal information should be stored securely.
 4. The recipe search and rating functionalities should be accessible at any time. It should also be able to handle a large number of users searching and rating recipes simultaneously.
-