

Group 12 – Recipe Card Application





Core Functionality

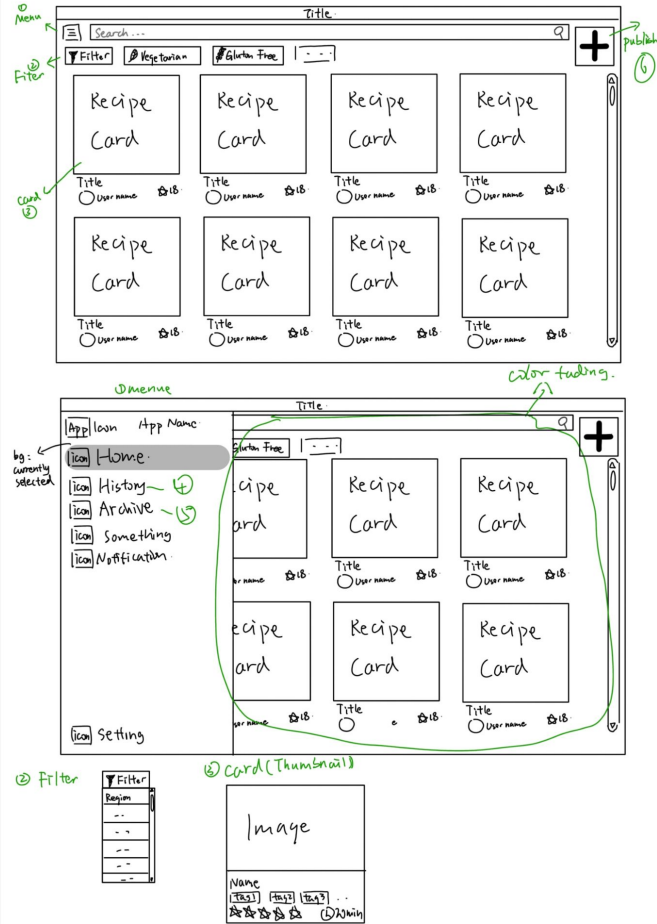
- User adds/edits recipes in the form of cards
- Search/filter functionality
- Categorize recipes
- Save favorite recipes
- Shuffle for a random recipe

Future considerations:

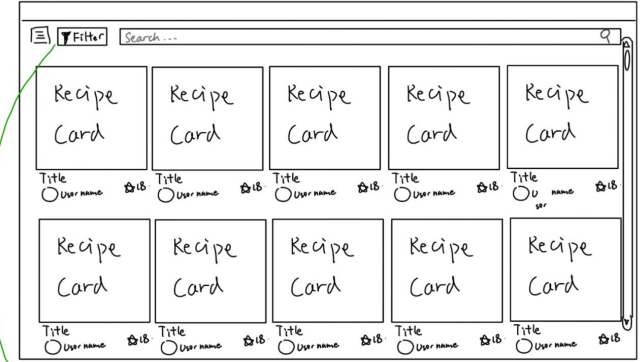
- Plan future meals with calendar integration
- Creating grocery lists
- Recipes from external data sources



UI Wireframe



④ History



④ History

⑤ Archive

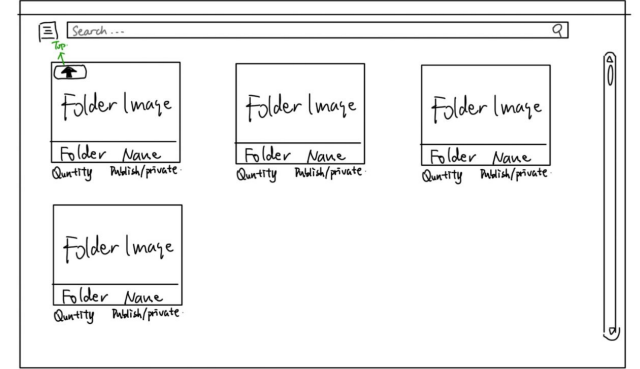
⑥ Recently

⑦ Duration (low to high)

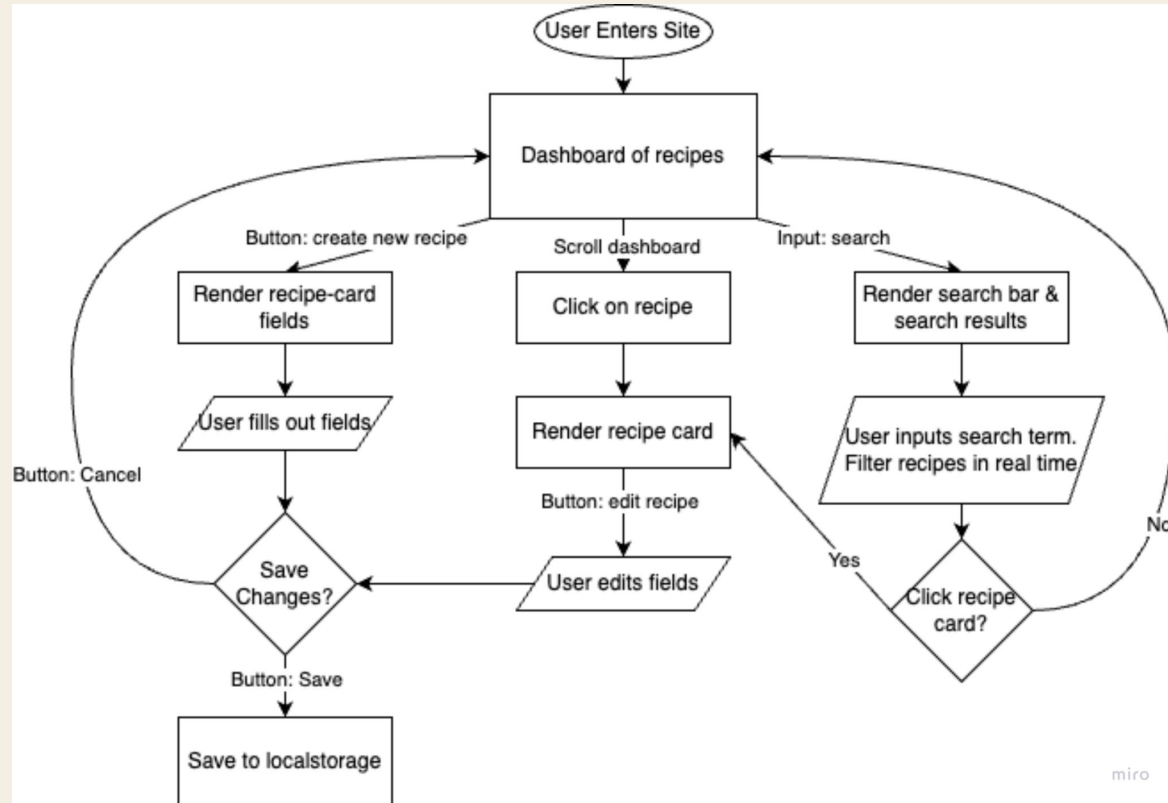
⑧ Duration (high to low)

⑨ Most liked

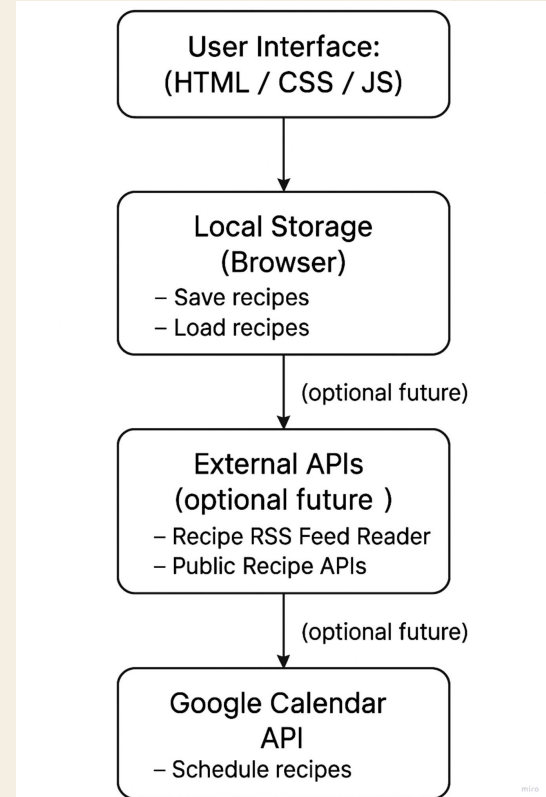
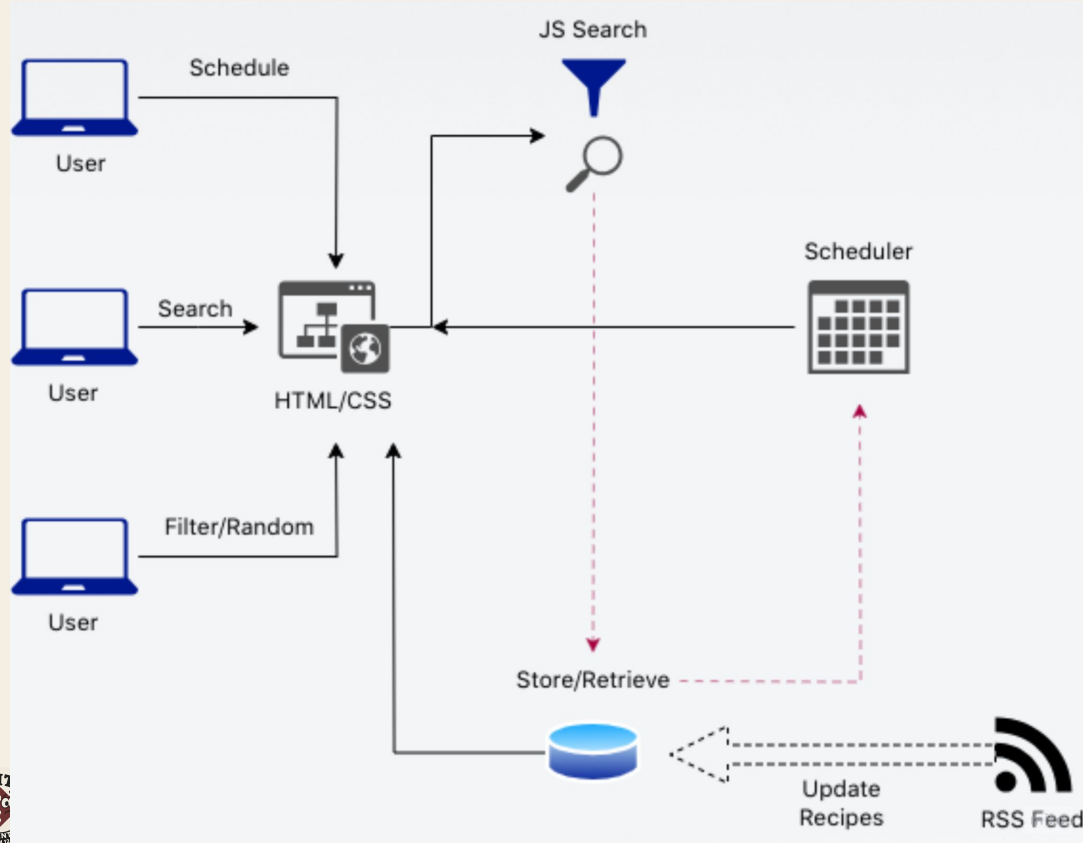
⑩ Archive



End User Flowchart



Tech Stack





Tech Stack (Explained)

1. Core Application (Local-First)

- a. HTML, CSS, Javascript
- b. Build UI and handle basic CRUD operations
- c. Use local storage
- d. No frameworks – minimize complexity

2. Data Storage

- a. Local storage
- b. (Future) consider more robust backend

3. (Future) External Data Sources

- a. APIs or RSS Feeds for recipe import

4. (Future) Calendar Integration

- a. Google Calendar API - let user schedule recipe cooking days



Market Research - Who's Using Our App?

User Persona A

- Name: Alex Armstrong
- Age 32, fitness enthusiast, busy with his job, not particularly into cooking
- Wants:
 - Healthy meals
 - Easy-to-use UI
 - Interested in macros/nutrition
 - Wants to log past meals/stats
- Doesn't Want:
 - Complex UI
 - Social-media-like design

Market Research (Cont.)

User Persona B

- Name: Nora Cooke
- Age 35, full-time mom of 3, needs to cook everyday, finds it hard to come up with new recipe ideas
- Wants:
 - Recipe inspiration
 - Search for recipes based on available home ingredients
 - Grocery list feature for easy shopping
 - Nutritional balance
- Doesn't Want:
 - Fancy techniques in her recipes
 - Intuitive UI

Market Research (Cont.)

User Persona C

- Name: Jane Cookson
- Age 20, college student, low budget, tiny kitchen, would like to develop cooking skills
- Wants:
 - Low effort recipes
 - Cost effective meals -> filtering
 - Tips and tutorials – she’s just a beginner
 - Balanced nutrition
- Doesn't Want:
 - Unintuitive UI



Risks and Rabbit Holes

- Search and filter algorithm can become overly complex, long winded if not careful
- Over Reliance on code generated by ChatGPT
- Reactive components/APIs are easy to overcomplicate
- Github Pages doesn't support reactive components
- Communication breakdown with large team and complex codebase
- (Future) Integration with database or Google Calendar API

