

Recipe Cookbook

I. Statement of Purpose

Our team has come together to tackle a major issue amongst people who want to eat healthy food but are short on budget. To solve this problem, our project aims to create an easy-to-use application that offers users guides on how to get started with cooking in a manner that recognizes their limited budget, time, and access to resources. Through the use of this app, they will be able to slowly progress through different difficulties of recipes, keep track of their progress, and start familiarizing themselves with their own personal cookbook.

II. User Personas

Our target users are the people who aim to eat cheap and healthy food.

Robert C. Garcia



"Work hard, play hard"

Age: 22
Status: UCSD student
Location: San Diego

Personality

Introvert	Extrovert
Thinking	Feeling
Sensing	Intuition
Judging	Perceiving

Daily activities:

- Classes, homework, study, intern work
- Surf Youtube for cooking videos
- Prepare for job interviews
- Go to the gym

Wants & Needs

- Want: Eat healthy
- Want: Save money on food
- Need : Record his ideas for healthy recipes

Frustrations

- Unhealthy eating every day
- Don't know how to cook foods
- Doesn't have a person to talk to with all the thoughts in his mind
- Rapid weight gain

John Doe



"A quotation that captures this user's personality."

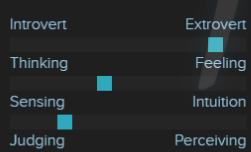
Age: 29

Work: Software Engineer

Family: Single

Location: San Francisco, CA

Personality



Daily Activities

Goes straight to work, sits in front of the computer for 8 hours

Takes online classes for business management after work

Usually orders food delivery

Goes to the gym during weekends

Social events with alcohol consumption

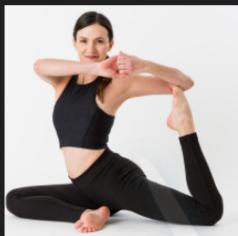
Goals

- Lose weight
- Keep reasonable budget
- Improve metabolism

Frustrations

- gaining weight due to sedentary workstyle
- unable to consume quality food due to Bay Area's high everyday cost
- can't find perfect dishes that satisfy personal nutrition needs
- high blood pressure, TAG, and Hyperuricemia level during health screening

Dohn Joe



"Good body shape brings good life quality"

Age: 31

Work: Yoga Coach

Family: Married

Location: San Diego, CA

Personality



Daily Activities

Goes jogging every morning

Works for 7 hours at the gym

Social events after work involving dessert and alcohol consumption

Watch drama series during the night

Goals

- Become a vegetarian
- Keep reasonable budget
- Be better at cooking

Frustrations

- unable to find good recipes for vegetarian diet
- Extremely limited experience with cooking
- Frequent weariness due to physical workout and sugar consumption

III. Core Features

CRUD

- Create recipes:
 - Users can create their own recipes according to our template
 - Input: title, ingredients, time, steps, images, estimated cost, date created
 - Store in json format and store locally (no database) into a hashtable(key: title, value: json)
- Read recipes:
 - Users can read their own recipes created by themselves.
 - Retrieve the corresponding json by using the key(title of the recipe)
- Update recipes:
 - Users can retrieve their recipes and edit & update them
- Delete recipes:
 - Users can delete their recipes.

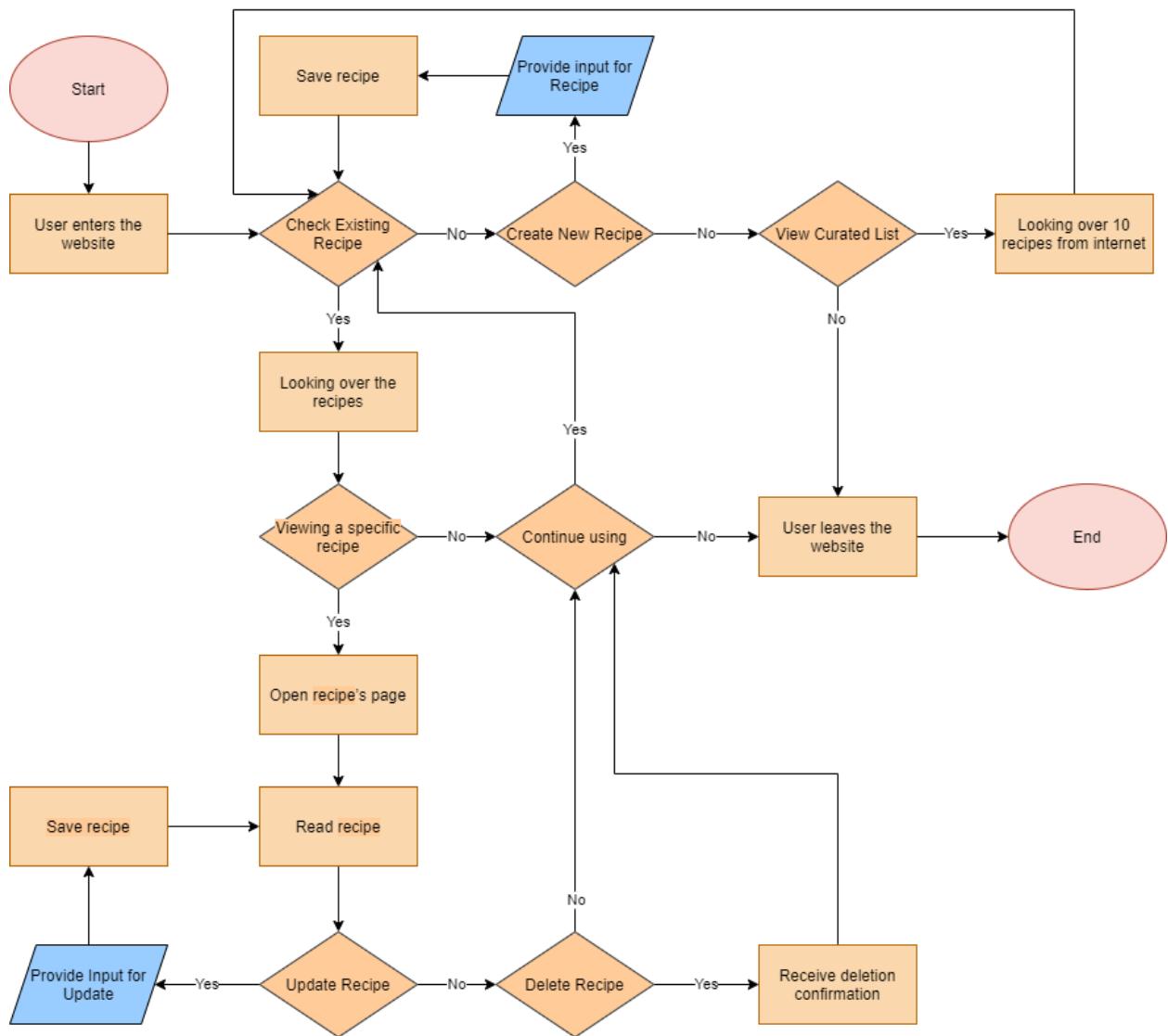
Curated List

- Users can explore 10 recipes from the internet
- Store locally

IV. Add-on features

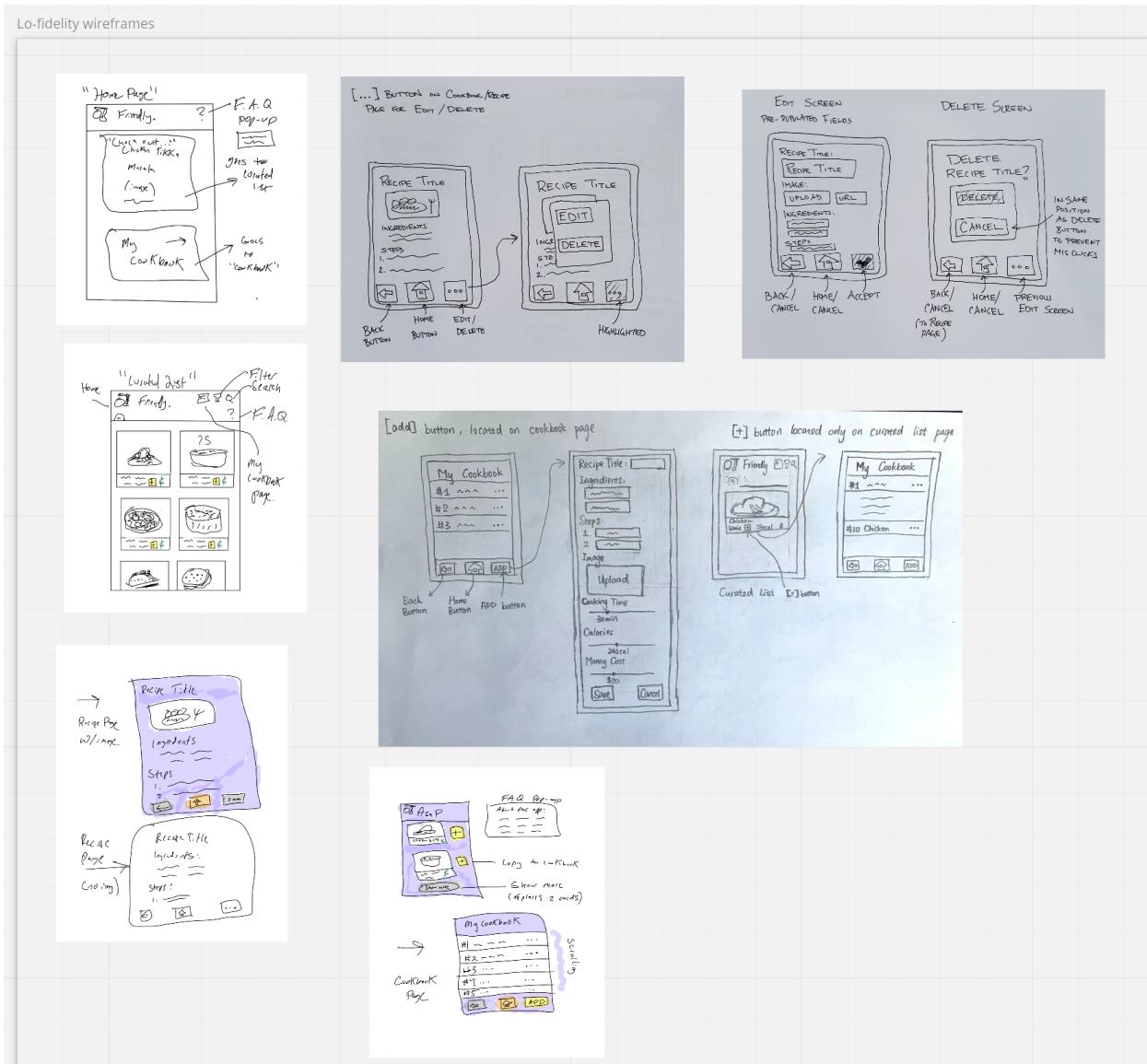
- Sort the recipes by date created, cost
- Cook tutorial
- Theme color (dark/light mode)
- Add recipes from explore section to user's own recipe book

V. Flowchart/Event-modeling diagram



VI. Low Fidelity Diagrams for UI

Lo-fidelity wireframes



VII. High Fidelity Wireframes

1.1 Home

2.1 Curated List

3.1 My Cookbook

3.2 Create Recipe

2.1 Recipe

2.3 Recipe Edit

2.4 Recipe Delete

3.3 Edit Recipe

2.2 Recipe

VIII. Appetite: Project Timeline

	Week 6	Week 7	Week 8	Week 9	Week 10
Sprints	Sprint1		Sprint2		
Design/Frontend	CRUD Design + HTML + CSS	Curated List Design + HTML + CSS			
Core Features/Backend		CRUD features backend	Curated List backend		
Testing	CI/CD Pipeline + Unit test + e2e test				
Additional features				Finish all additional features	
PRESENTATION					Make final video

IX. Rabbit Holes & Risks:

- Create recipes:
 - Someone might use scripts to create a large number of recipes which might damage our data storage system
 - If the user inputs an invalid data type, the hashtable might not function correctly.
- Read recipes:
 - Scripts continuously read our recipes data and decrease the performance of our website
- Update recipes:
 - Users give the wrong input format or submit the recipe title as null, then we cannot use the title as the key of hashtables.
- Delete recipes:
 - members of developments might accidentally delete important files, and some bugs might cause incorrect deletions.
- Sort the recipes by date created:
 - Invalid date inputs make our sorting function incorrectly