

Tier 1  
Features

User/Recipe  
CRUD  
functionality

Welcome  
screen for  
first time  
users

final  
product  
images

explore(rand  
om starter  
recipes)

Search  
Feature

shopping list  
containing  
selected  
recipes'  
ingredients

Serving  
Adjustments

look at  
nutritional  
information  
of recipe.

Time to cook  
+ prep

responsive  
(looks good  
on different  
screen sizes)

Tier 2  
features

Vladimir: I have  
travelled the world  
and seen much. I  
would love to save  
the unique recipes  
I've encountered

filter by  
complexity  
/difficulty

Set  
servings for  
all recipes

Explore(re  
commend  
er system)

Ratings/revie  
ws

Timer

Looks easy to  
use

Filter by  
allergens/diet

Easy  
scrolling  
with messy  
hands

Clearly  
visible  
current  
step

Grandma: Man I'd love  
to have the recipe  
chunk the steps! I have  
Alzheimer's so I don't  
remember much. Oh  
can we add step  
chunking as well?

Keyboard  
shortcuts

Features should be geared  
towards target audience

Tier 3  
Features

Have  
videos and  
pictures for  
steps

Pantry/groceries  
Choose recipes  
you want to cook,  
compute  
groceries needed

Dark  
mode/color  
themes

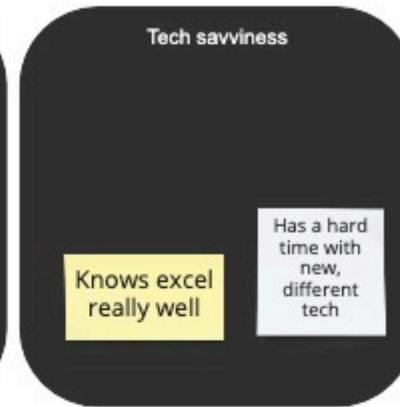
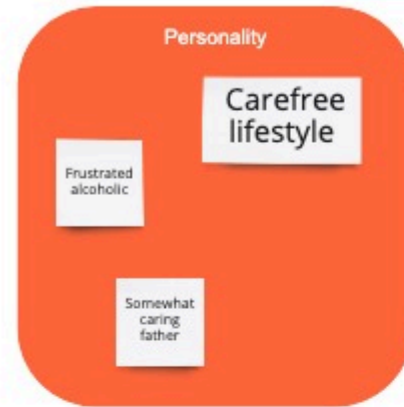
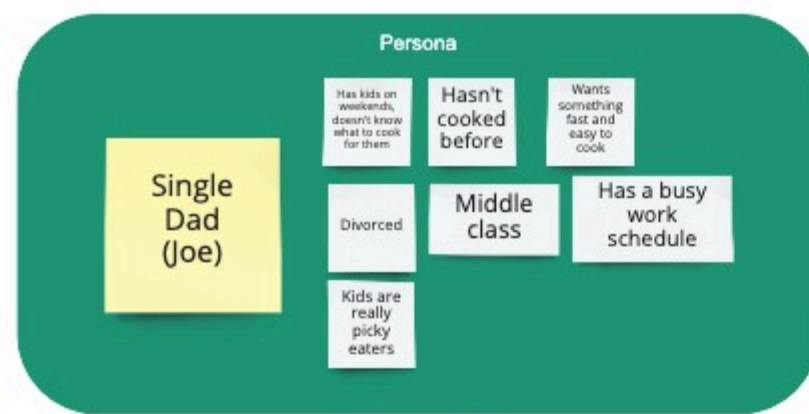
Step by  
step image  
support

recent  
searches

Meal  
Prep for  
the week

pictures of  
what kitchen  
supplies will  
be needed



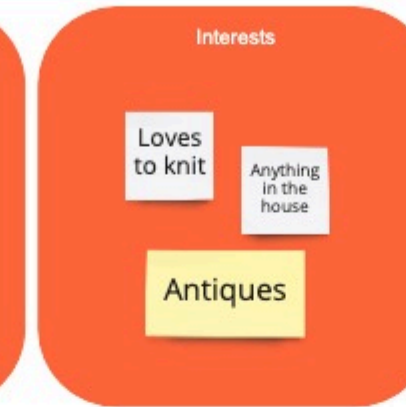
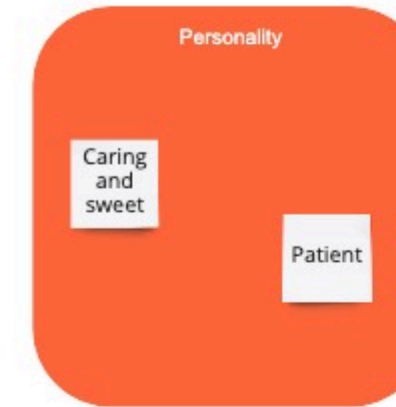
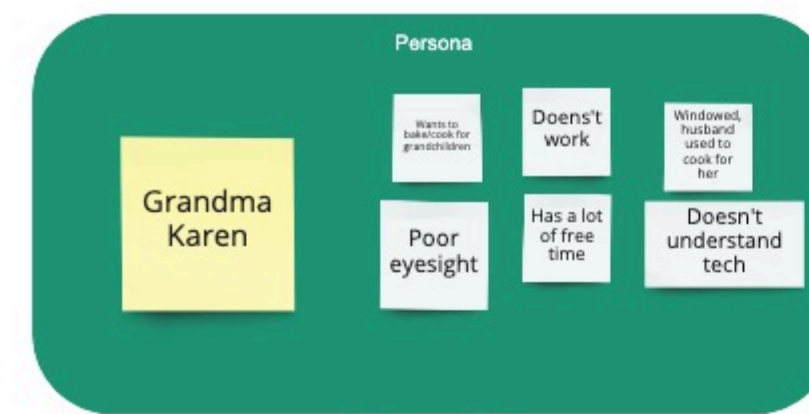


Reasons to use our product



Reasons to buy our product

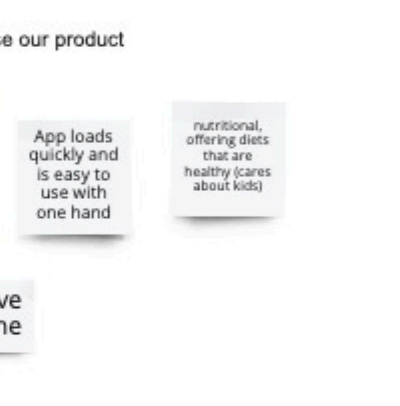
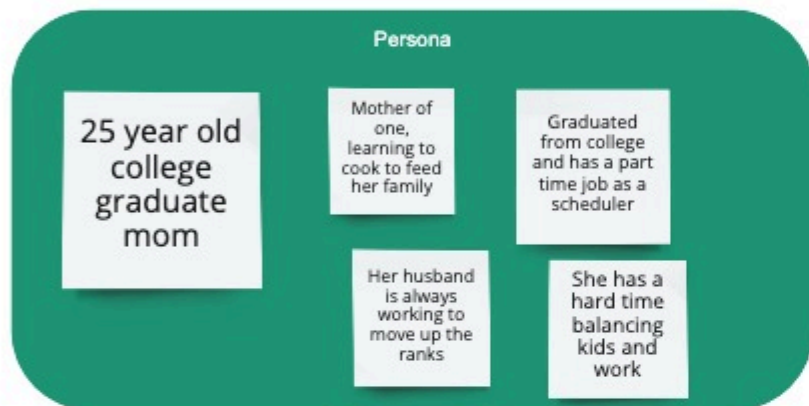
It's Free



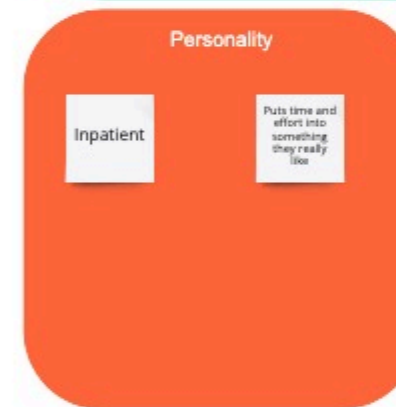
Reasons to use our product



Reasons to buy our product



Reasons to use our product

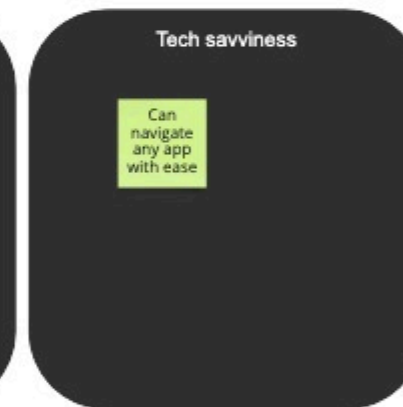
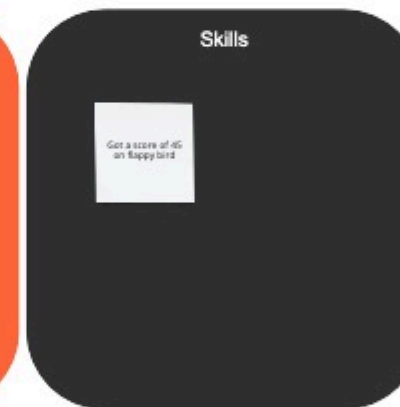


Reasons to use our product

Wants to be a chef

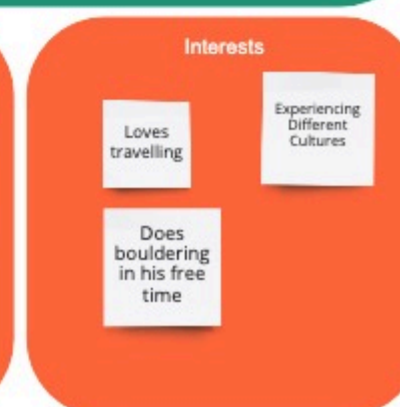
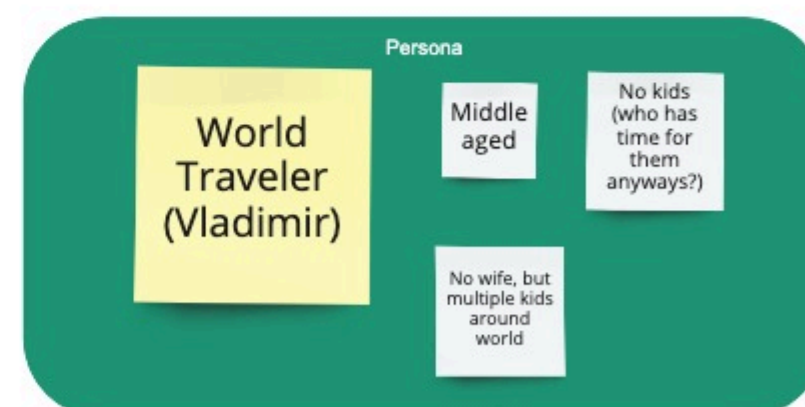
Reasons to buy our product

Free



Target:  
Beginner Friendly

beginner friendly:  
less cooktime < 20 mins.  
minimal cookware.  
No difficult techniques.



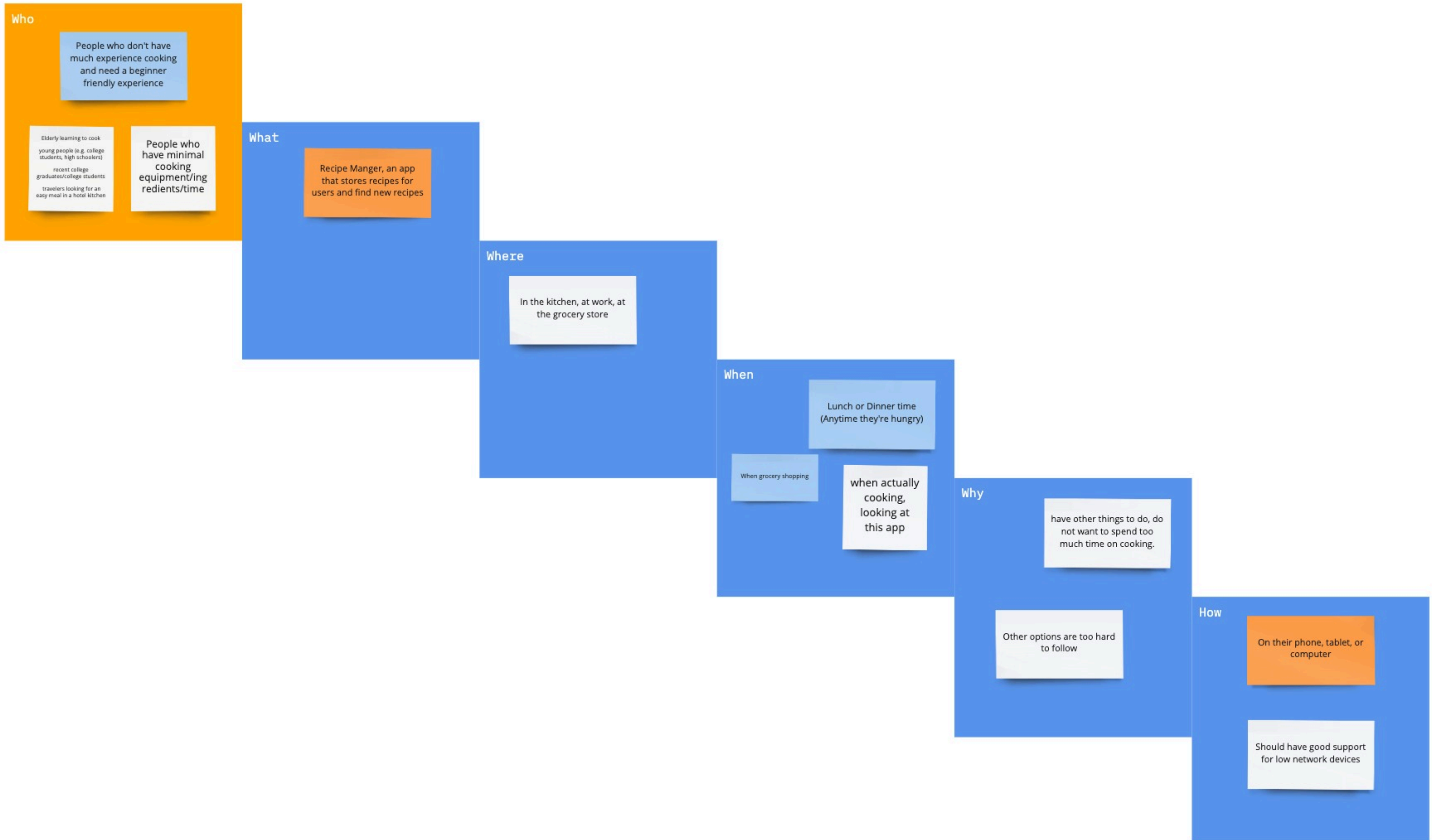
Reasons to use our product

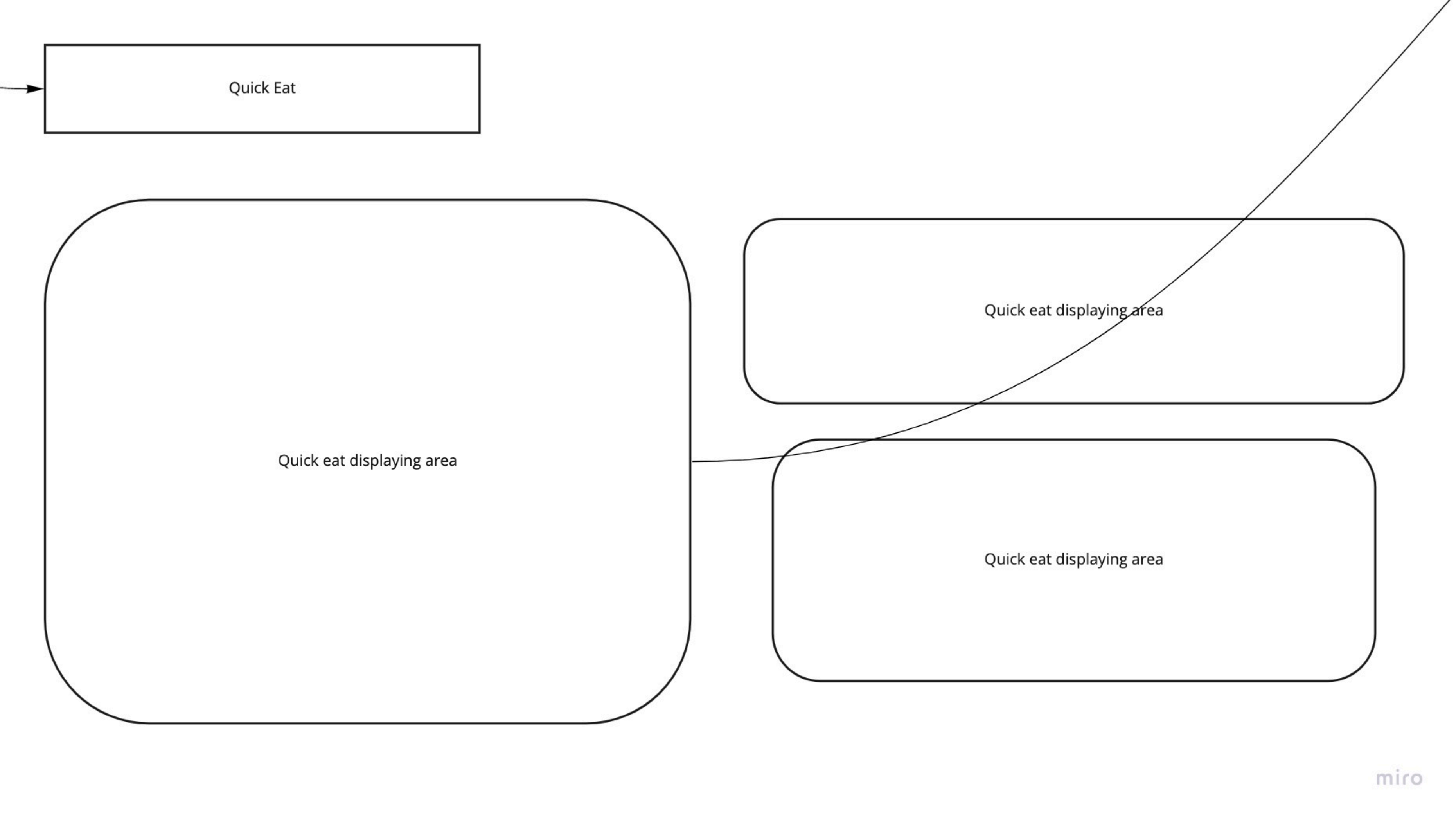
We offer lots of diverse recipes

Reasons to buy our product

Our Web App can have many different recipes that he tried while traveling







By Cuisine Origin

display area

display area

display area

By protein

display area

display area

display area



Ingredient List

button: add to shopping list

displaying list of ingredients

## General Information

Prep time: 10 mins

Level of difficulty: 3

cookware:

nutritional info

serving size



## Introduction

An article of the recipe, or some kind of information introducing the recipe

Receipt website icon

Search 

quick eat

By  
Diffuculty

By World Cuisine

Diet

shopping list

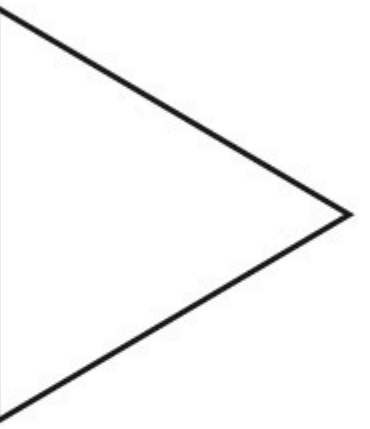
sign up

log in

Horizontally sliding Receipt

What are the recipe ingredients?

1. **2 tsp** of Salt
2. **4 cups** of Sugar
3. ...
4. ...



of

OK

What are the recipe steps?

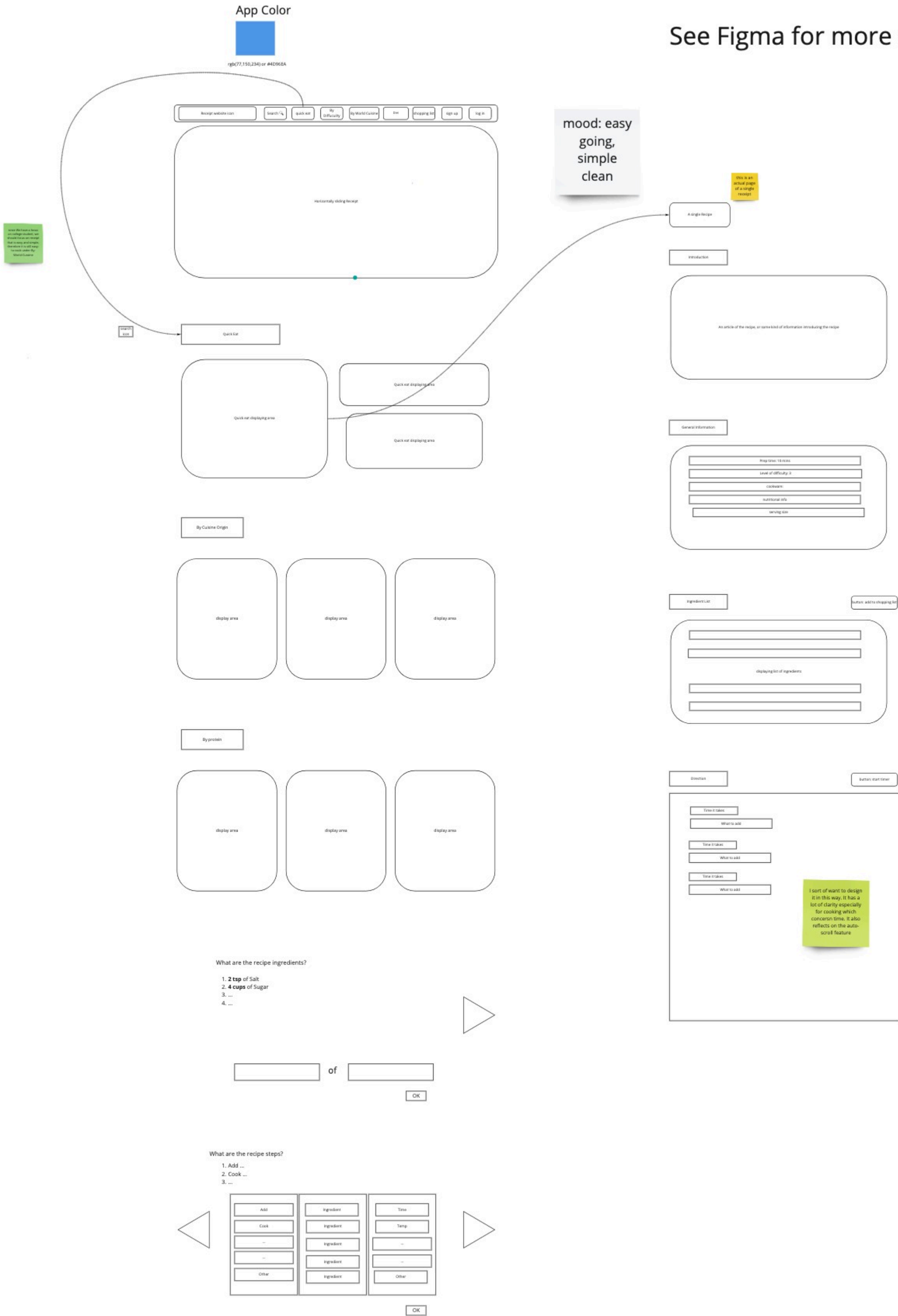
1. Add ...
2. Cook ...
3. ...

Add	Ingredient	Time
Cook	Ingredient	Temp
...	Ingredient	...
...	Ingredient	...
Other	Ingredient	Other

OK



See Figma for more detailed and up-to-date information





#### User story 1:

- As a single father
- I want to cook for my children on the weekends but I am not exactly sure what they like to eat
- I want to cook something they like

#### Acceptance Criteria:

- Given a dad that wants to cook a meal his children will like
- When he opens the app, display meals that he has cooked in the past / favorite meals from the past

#### User Story 5:

- A world traveler
- I want to cook cuisine based off of where I am
- I need something easy to cook because my kitchen is small

#### Acceptance Criteria

- Search for different cuisines
- Need to have recipes that require less prep / easy to do with little supplies

#### User story 2:

- A working mother
- I need something quick and easy to cook for my children
- I am tired / do not have much time

#### Acceptance Criteria

- Search for meals by time
- Display recipes in an easy to follow manner / large text / distinction between steps so that they are easier to follow

#### User Story 6:

- Gym Rat
- Desire to meal prep in a large quantity
- Want to know nutrition facts

#### Acceptance Criteria

- Ability to adjust serving size by people eating and how many meals you want to eat it for
- Nutrition Facts
- Label recipes with key words like (protein- heavy?)

#### User Story 3:

- As a grandma
- Want to cook a large meal for my grandchildren with allergies
- Have a hard time seeing

#### Acceptance Criteria

- Allergy warnings when selecting recipes
- Large font / text distinction from background

#### User Story 7:

- Young children
- Want to cook something for mom for mother's day
- Do not have any experience in the kitchen

#### Acceptance Criteria

- Make easy recipes easy to find
- Have pictures of the tools needed to make a certain recipe like what bowls, spoons, measuring cups, other supplies

#### User Story 4:

- As a teenager
- Do not have much experience cooking
- Want to learn how to cook simple dishes for myself

#### Acceptance Criteria

- Filter by difficulty
- Possibly offer more guidance in recipes than other cooking apps like a how to section (how to whisk, fold in cheese)

#### User Story 8

- Newlyweds
- Offered to host thanksgiving for the first time
- Do not know what exactly to cook, how much time they need

#### Acceptance Criteria

- Estimated time frame on different recipes
- Suggestions for an occasion ?
- Offer a to-do list for a user's recipes if they plan to make a large meal that tells them the sum of prep time, and overall time

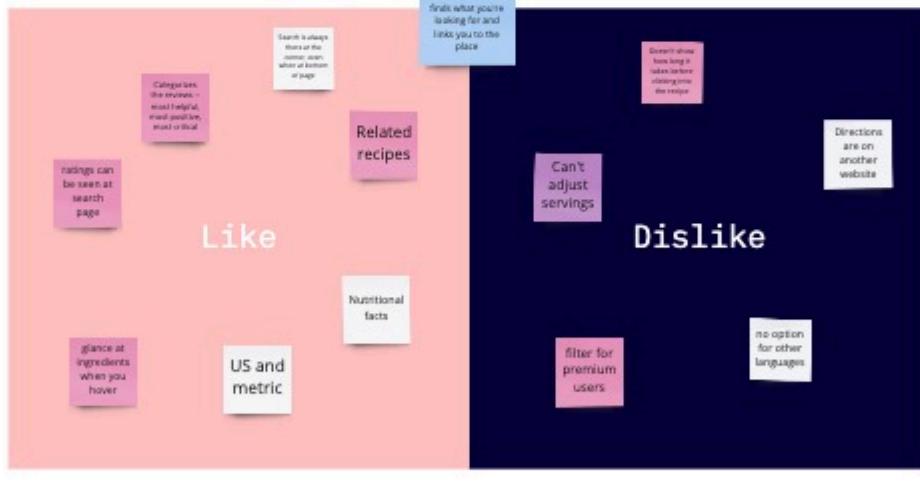
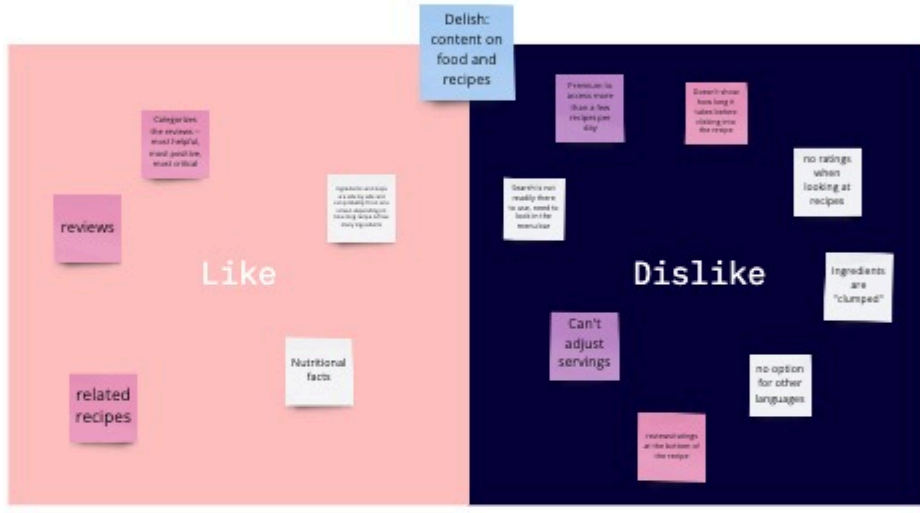
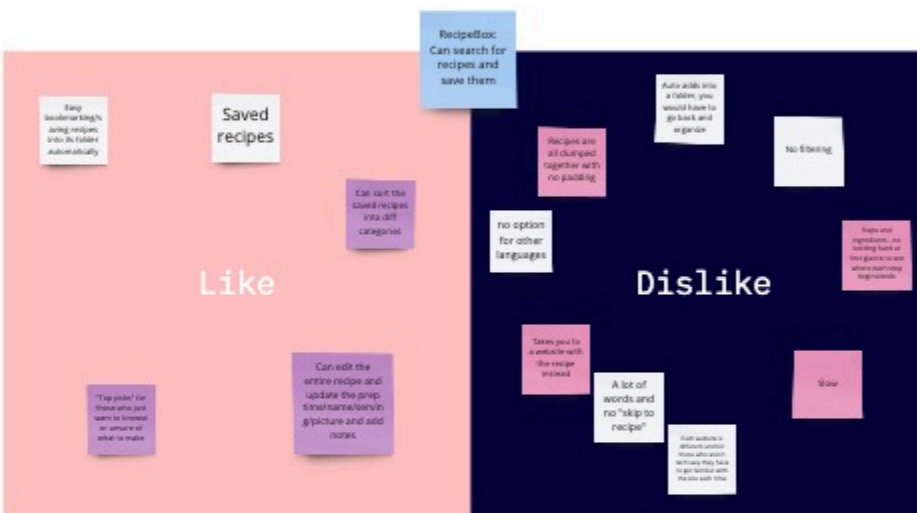
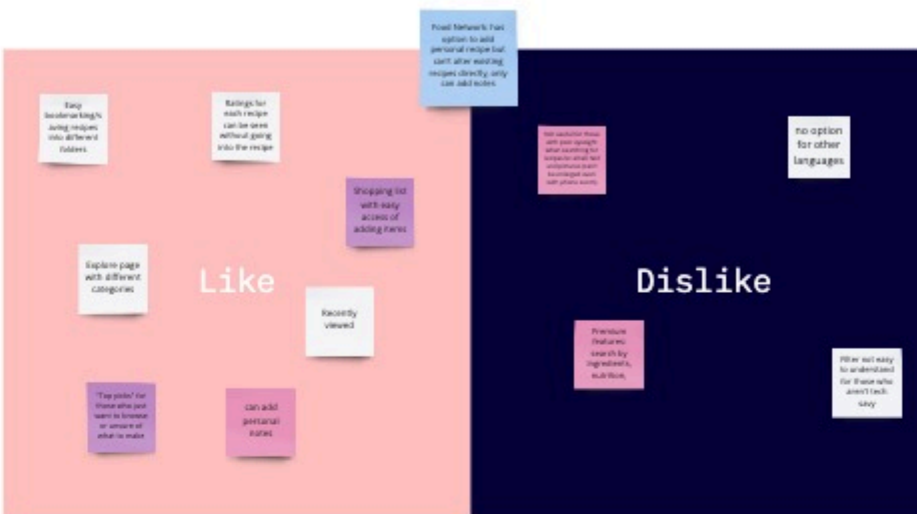
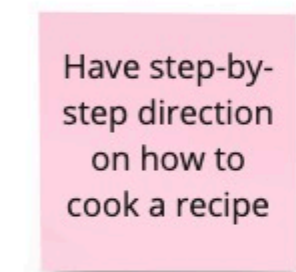


## Research

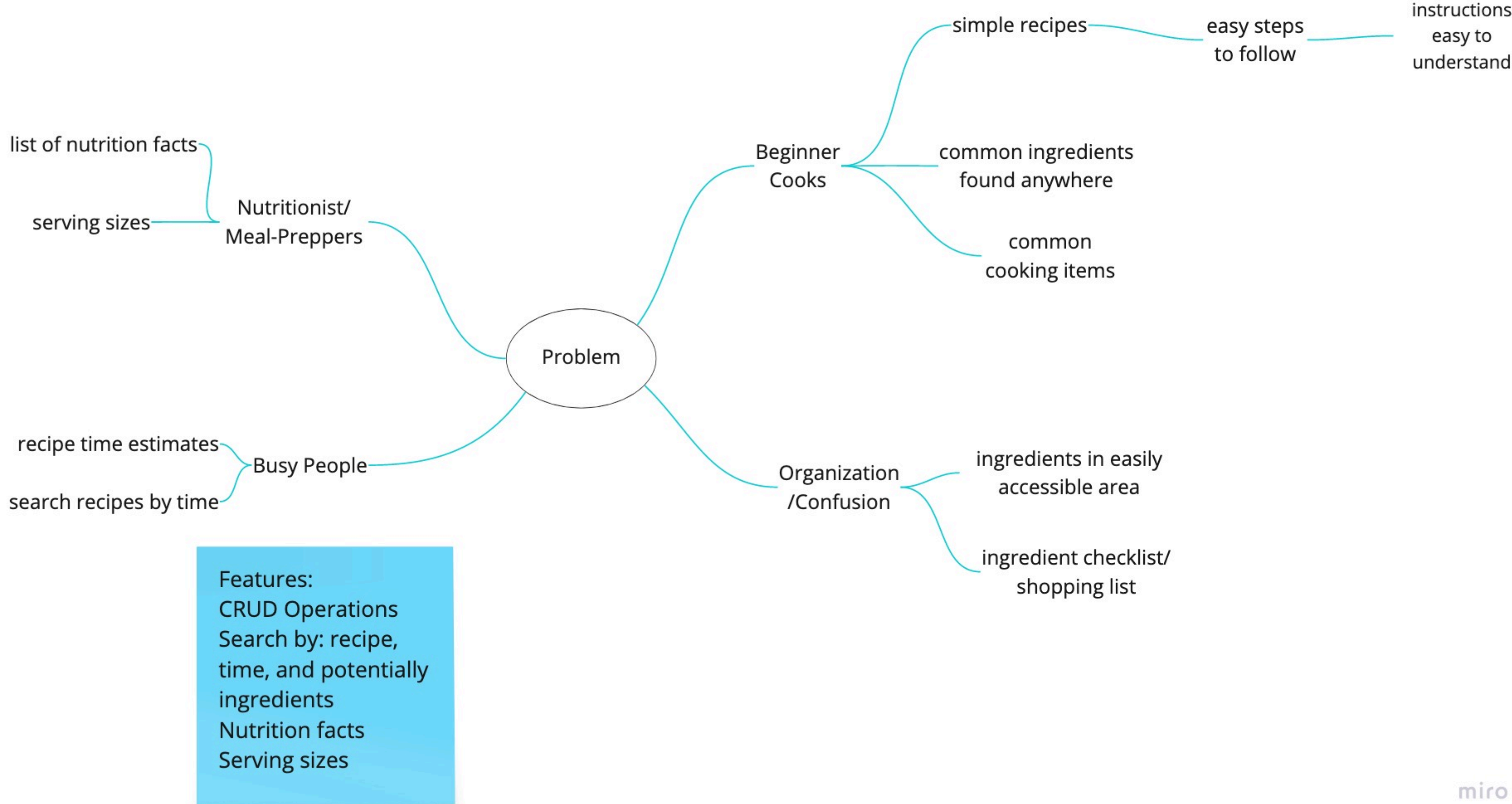
## Research

## General Research: Definition of Recipe Management and Essential Features

Other recipe management apps:  
features, like/dislike



Project Statement





Welcome  
screen for  
first time  
users

- Welcome message followed by new username input
- Add password + email option after clicking 'continue'
- Privacy reminder that their personal information won't be used
- Log in from Gmail or Facebook?

Search  
Feature

- Needs to support the addition of new items (so no vector space SE)
- Should support:
  - Search by ingredients (check this first)
  - Search by name
- Multiple search terms

- No ranking (too complicated)
- Suggested search terms
  - What matches best?
  - Or by popularity?

explore(rand  
om starter  
recipes)

- Have popular recipes appear in the beginning
- Recommendations after N amount of searches
  - Finding X most similar users and recommending their favorite items?
  - X items most similar to user's favorite item

## MVP

Create a  
favorites  
list

Read a  
recipe

Update  
your  
favorites  
lists

Delete your  
favorites  
lists

Search  
Feature

pictures of the  
cooking/tools  
tools  
(spoonacular)

final product  
images  
(spoonacular)

Phone/pc/tablet  
support

Explore  
feature

## Extension

Edit  
recipes/store  
locally

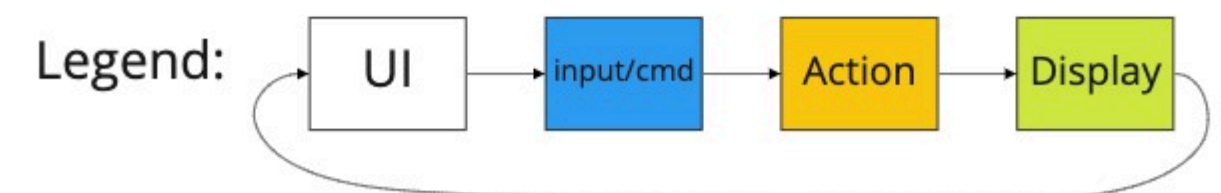
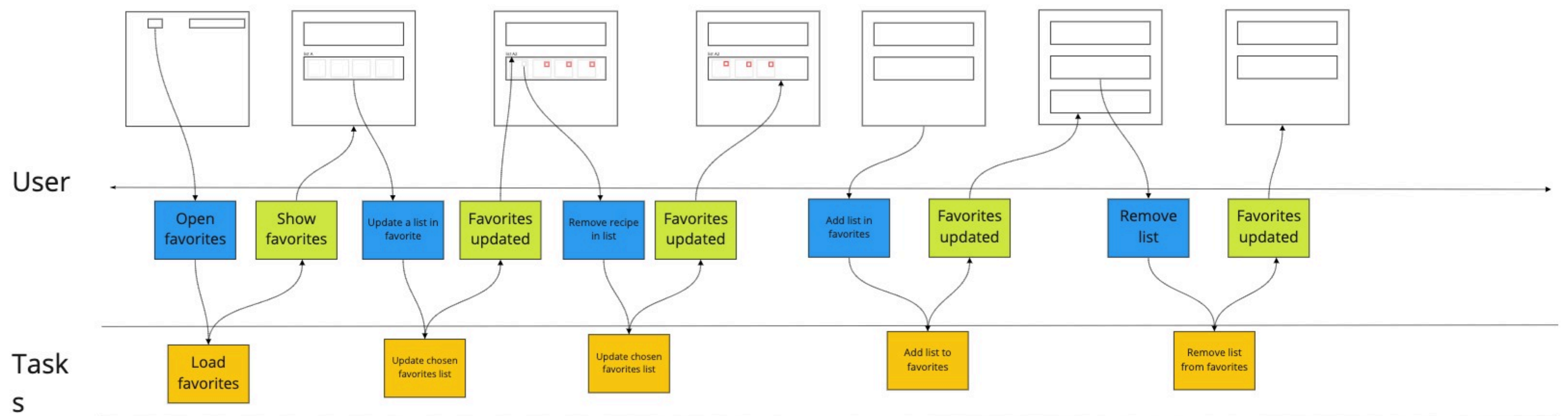
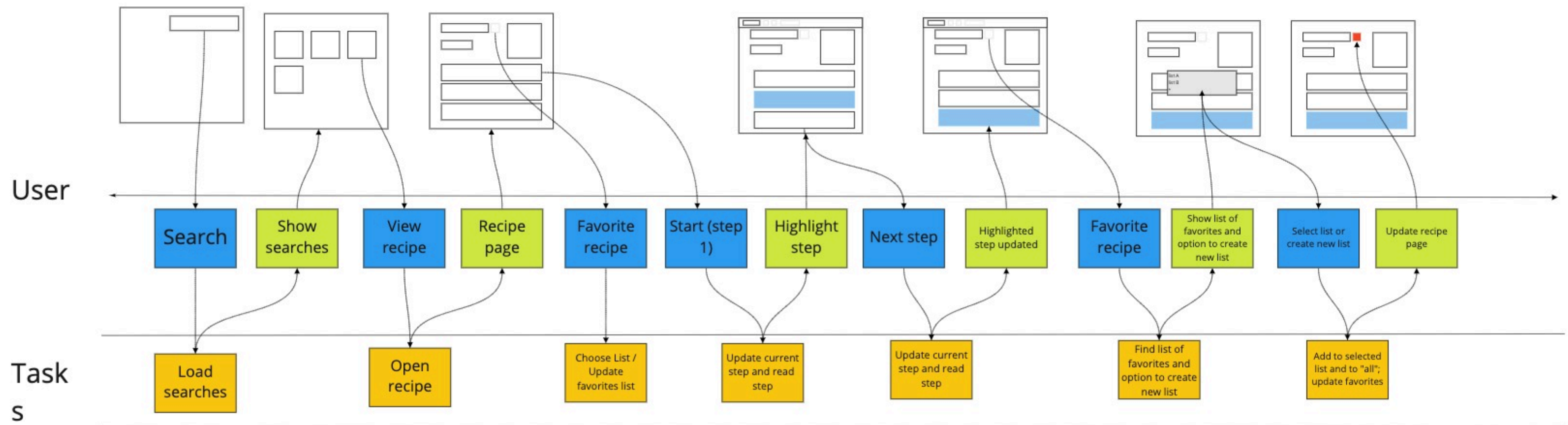
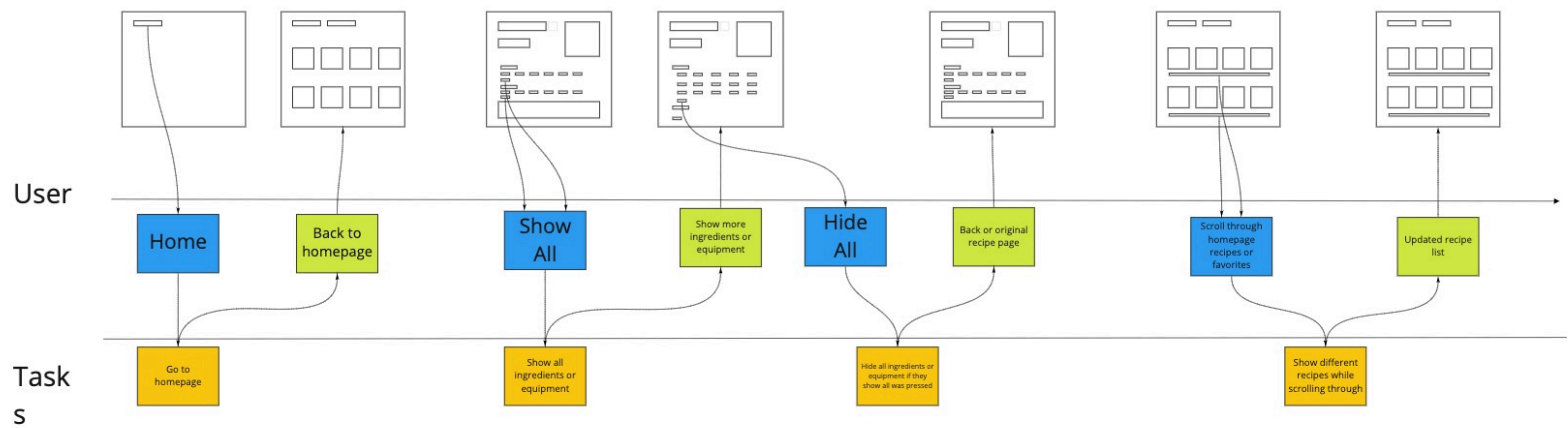
Recipe card  
with a button  
for reading it  
out (text to  
speech)

recipe  
ranking by  
difficult  
system

shopping list  
(auto add  
ingredients  
from recipes)  
+ CRUD

highlight  
current  
step





## Additional Functionality until Week 10



## UX/UI design

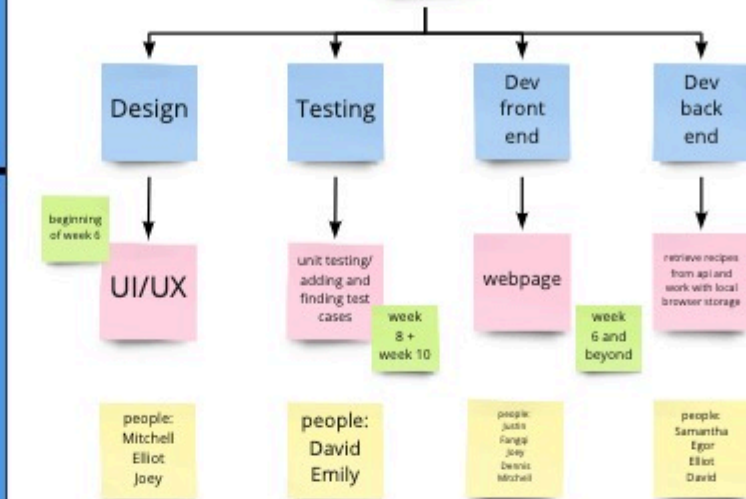
- 4 pages with navigation button
- frame boxes with respect to screen size
- LOGO
- 4 navigation icons, like icon,
- pictures of {recipe, ingredients, cookware}

## Testing and Logistics

- Setup GitHub environment
- Ask Hema for more specific details about how to test/what to test

## Team

### Organization 22X



## Dev-Backend

- Get familiar with HTML, CSS, JavaScript
- parsing with spoonacular data
- A favorite list data structure
- Parsing json file to the front end

## Dev-Frontend

- Get familiar with HTML, CSS, JavaScript
- Home page
- Recipe page
- Search Page
- Favorites page

## Minimum Viable Product until Week 8





## Lofi

	Desktop	Mobile
Home/Explore	☆	☆
Search	☆	☆
Favorites	☆	☆
Recipe	☆	☆

## Hifi

Home/Explore	☆	☆
Search	☆	☆
Favorites	☆	☆
Recipe	☆	☆

### Module **Display Panel**

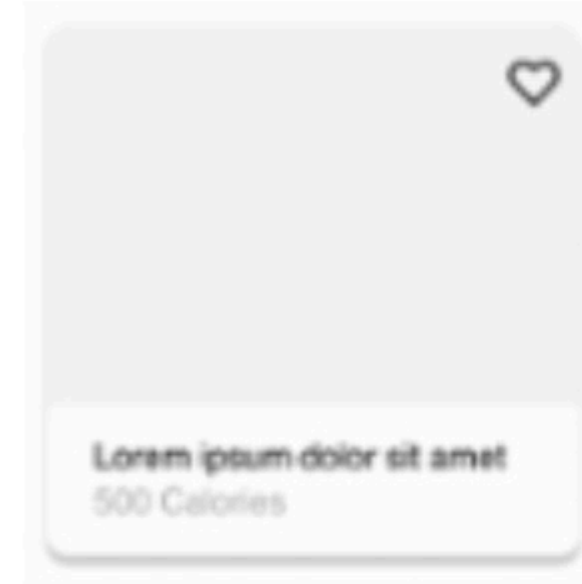
Input: Recipe ID

Process **Show Recipe Name**

Process **Show Image**

Process **Favoriting**

Process **Unfavoriting**



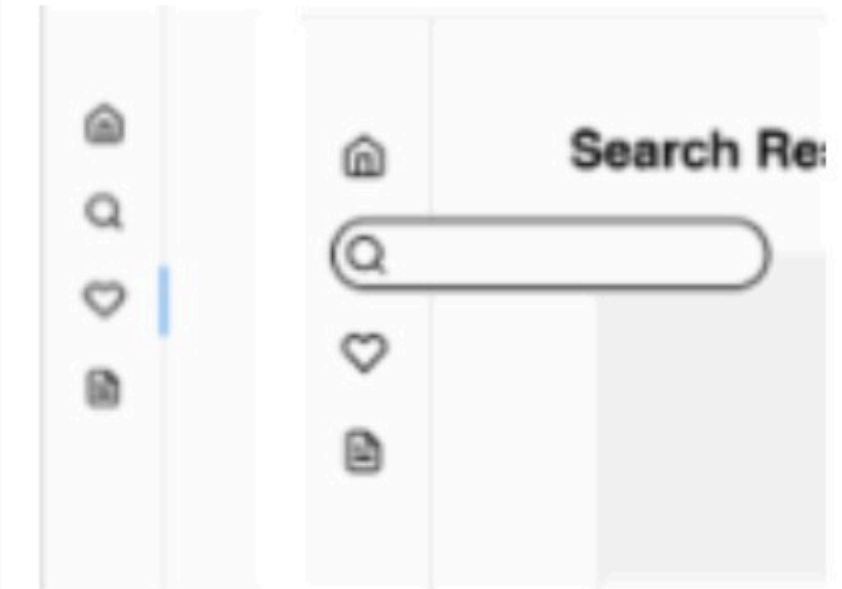
### Module **Navigation Sidebar**

Process **Go to Favorites**

Process **Go to Home**

Process **Search**

Process **Show/Change settings**



### Module **Home Page**

Process **Display random recipes**

Use **Display Panels**

Process **Horizontal Scrolling** (Also on Favorites page)

### Module **Search Results Page**

Process **Display search results**

Continued from *Process Search* from **Navigation Sidebar**

Use **Display Panels**

### Module **Favorites Page**

Process **Display all favorites**

Use **Display Panels**

Process **Horizontal Scrolling** (Also on Home page)

Process **Rearrange favorite items**

Process **Create new list**

Process **Delete list**

### Module **Recipe Page**

Process **Display recipe information** (images, steps, tools etc.)

Process **Move from step to step with Navigation Bar**

Process **Ingredient/Tool Scrolling** (Possibly the same as home/favorites)

Process **Save/Highlight current step**

Process **Text to speech**

Process **Favoriting**

Process **Unfavoriting**

