

Cooking Instructor

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Task Review

Concrete Task Example Overview

- Stephan is a typical user of the system who has little experience with cooking and wants to learn a new recipe.
- He searches for recipes of pasta dishes for beginners in various websites
- He chooses the one that requires the minimum amount of ingredients.
- He checks his stock of ingredients and goes shopping to get the items that he is missing.
- He gathers his cookware and hopes that it will work.

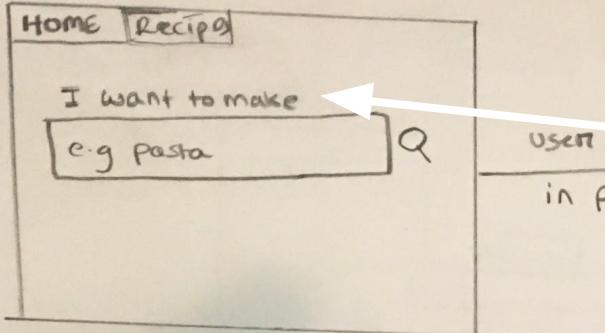
Task Example

- He then follows one instruction at a time from the recipe.
- He finds the instruction to dice the tomatoes, but he is not sure how to execute the task.
Then he looks up what dicing means before continuing with the next step.
- He copies and saves the recipe in his personal journal for future reference.

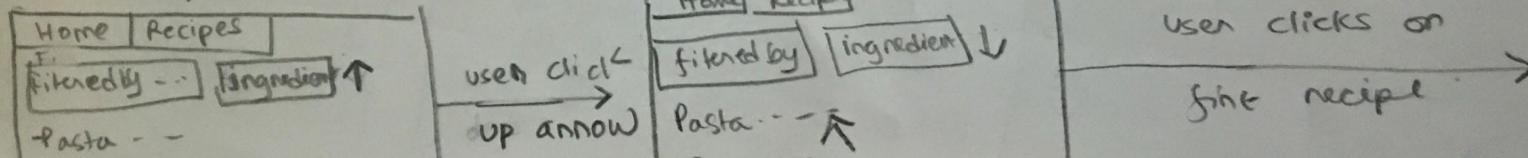
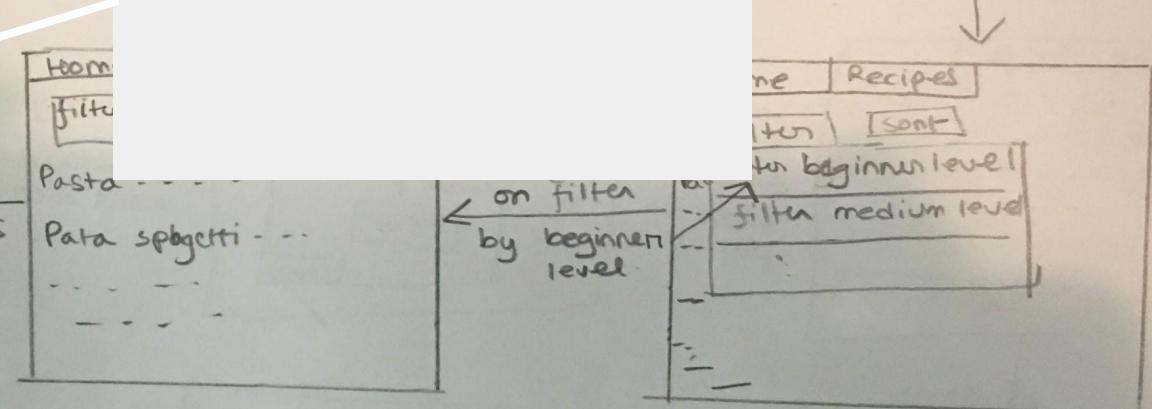
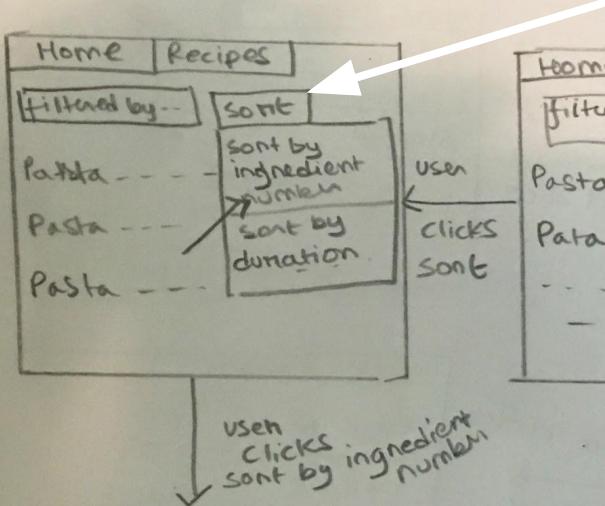
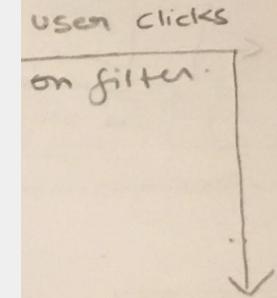
Initial Prototypes

TASK 2: VERSION 1

- The prototype design has a filter



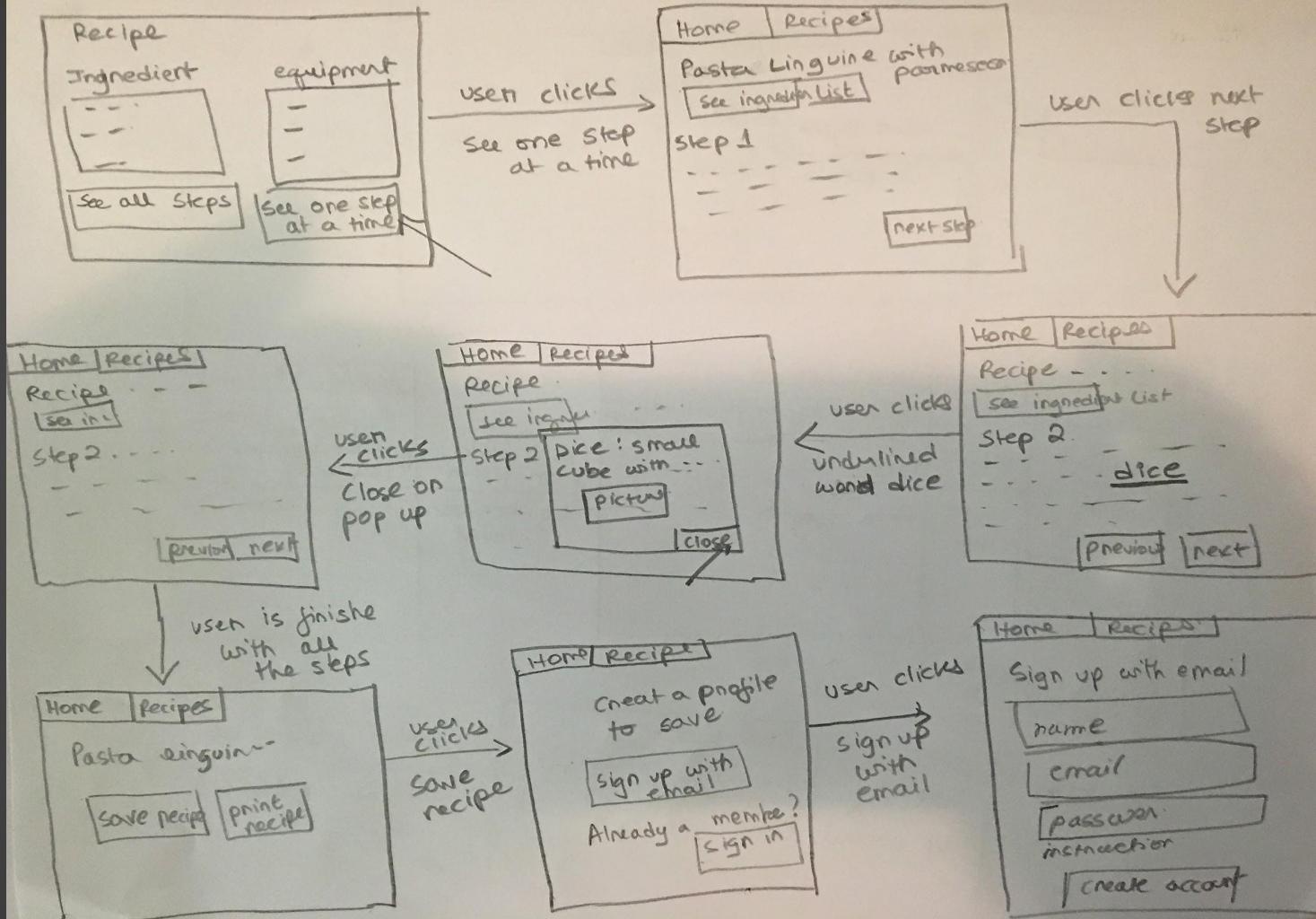
The user might want to just browse food categories and then choose pasta. There should be an option for browsing different categories.



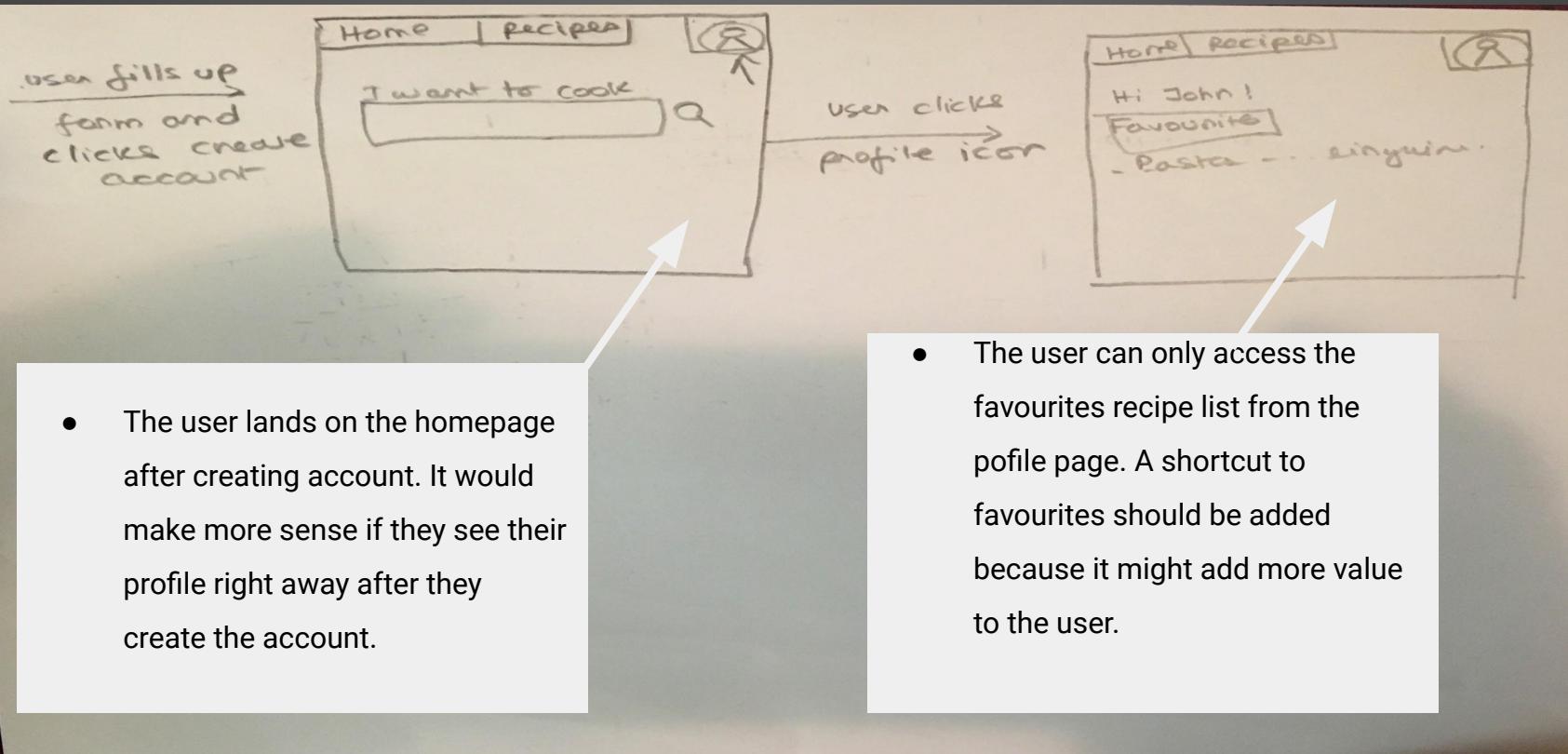
Iteration #1

User clicks on
filter recipe

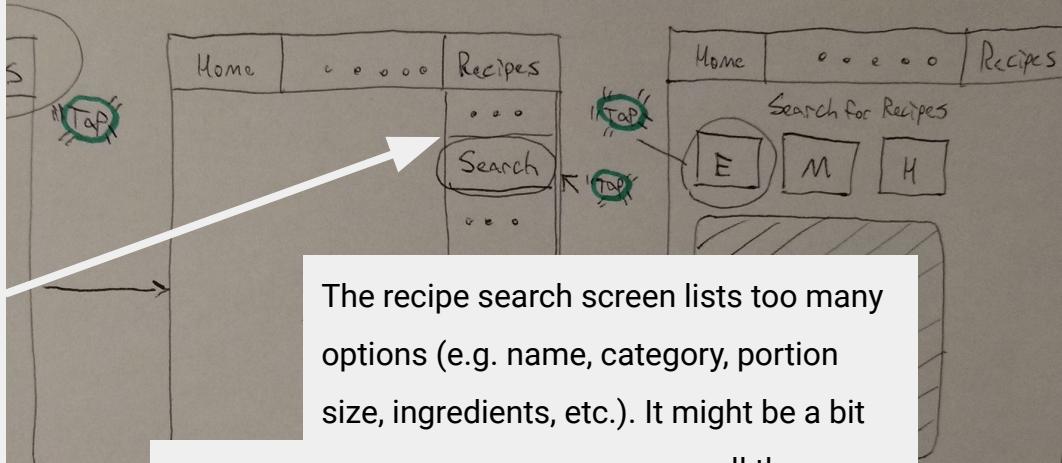
Iteration #1 (cont.)



Iteration #1 (cont.)



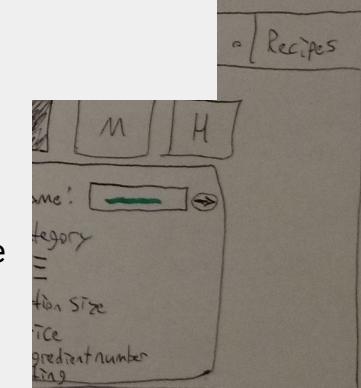
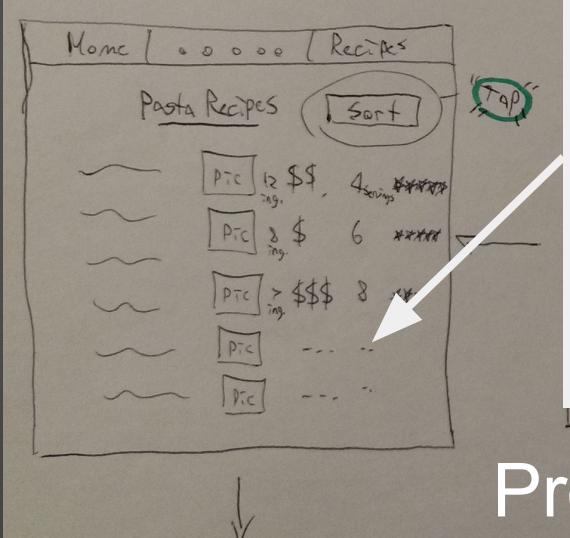
User can browse different categories of recipes and also search for it in this version. But, in order to search for recipes, the user needs to click on recipes and then on the search option. Since search will be a frequently done action, it should be more easily accessible.



The recipe search screen lists too many options (e.g. name, category, portion size, ingredients, etc.). It might be a bit

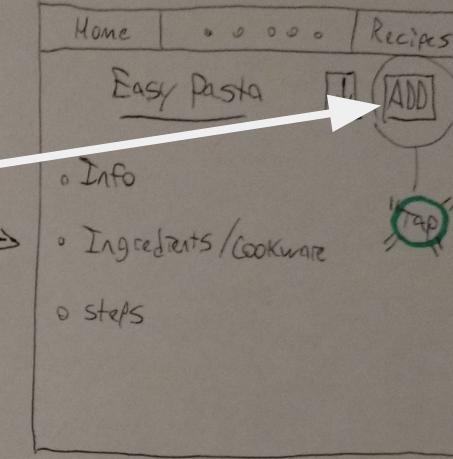
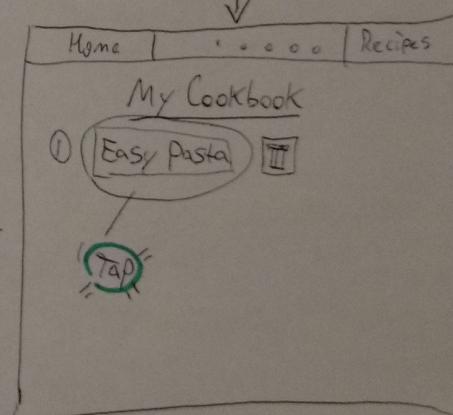
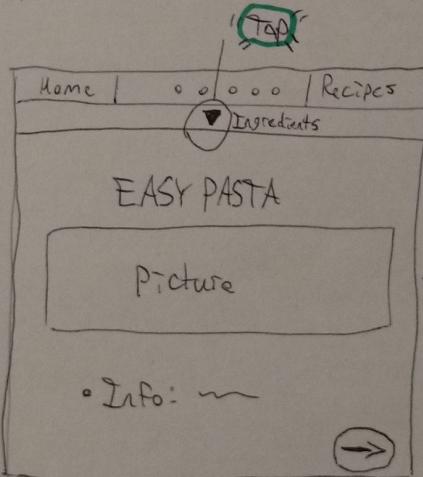
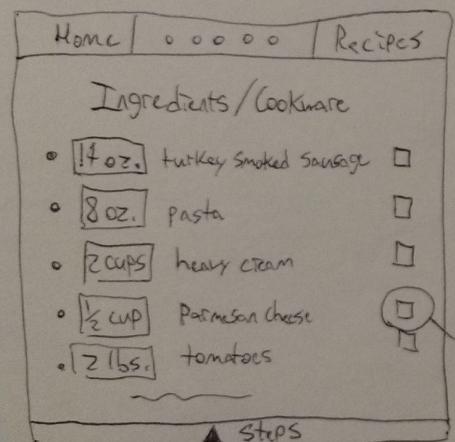
If the
an item.

- There is too much information displayed next to the found recipes. Some information can be removed from the sorting criteria, but still remain in the info section of a specific recipe page.



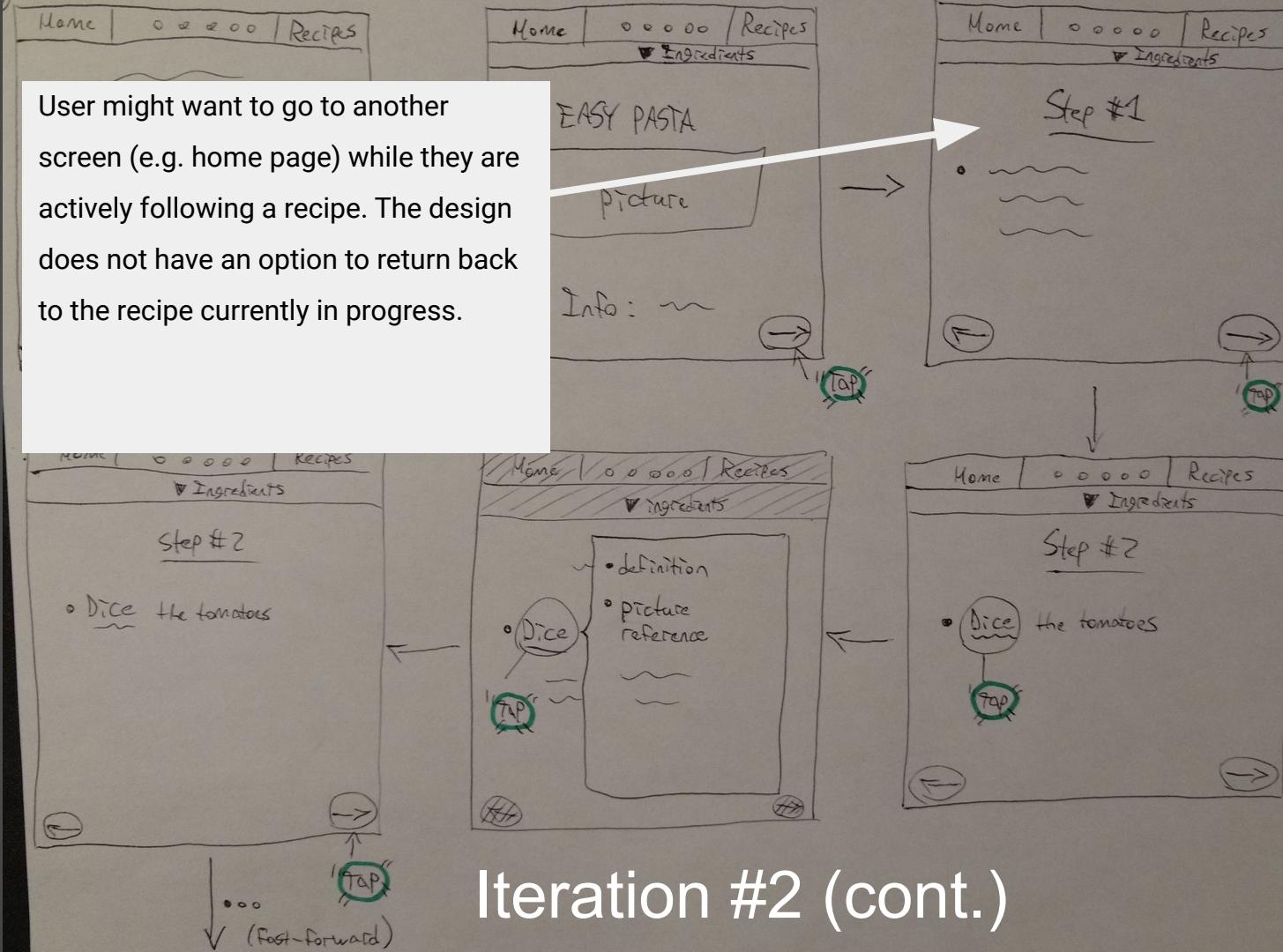
Prototype Iteration # 2

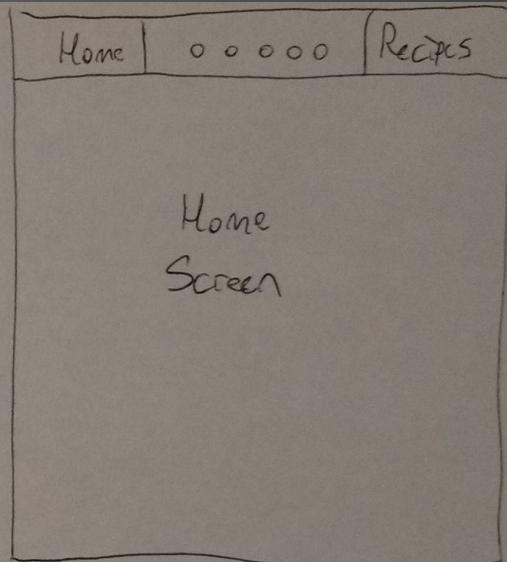
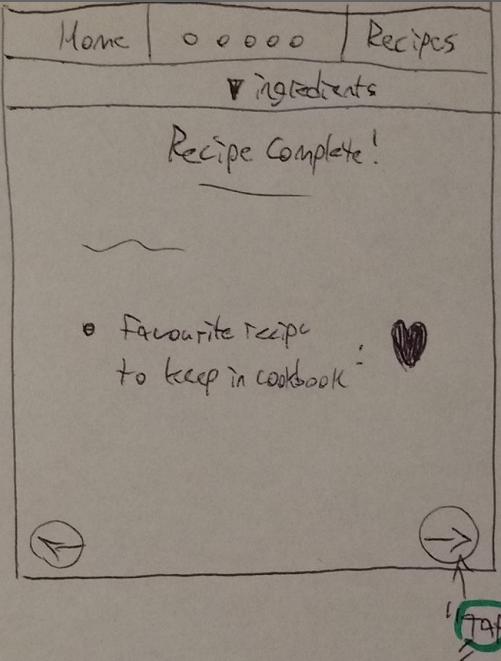
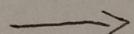
The design requires the user to add a recipe to their “cookbook” in order to begin preparing it. This may leave the user confused if they simply want to follow a recipe and not save it in a list.



Iteration #2 (cont.)

User might want to go to another screen (e.g. home page) while they are actively following a recipe. The design does not have an option to return back to the recipe currently in progress.





Iteration #2 (cont.)

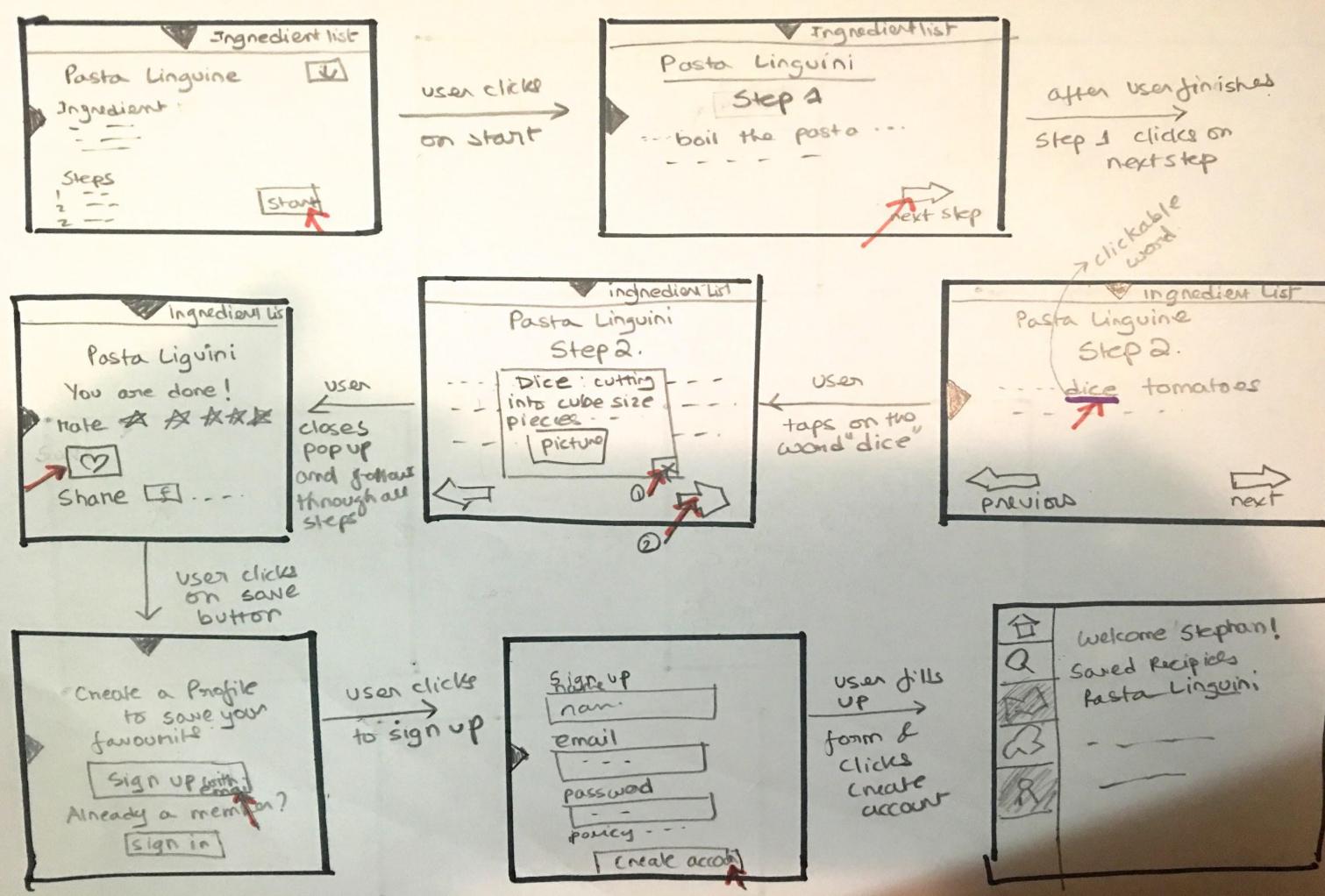
Final Prototype

TASK 3 : FINAL VERSION

The diagram illustrates a user flow through a mobile application's interface:

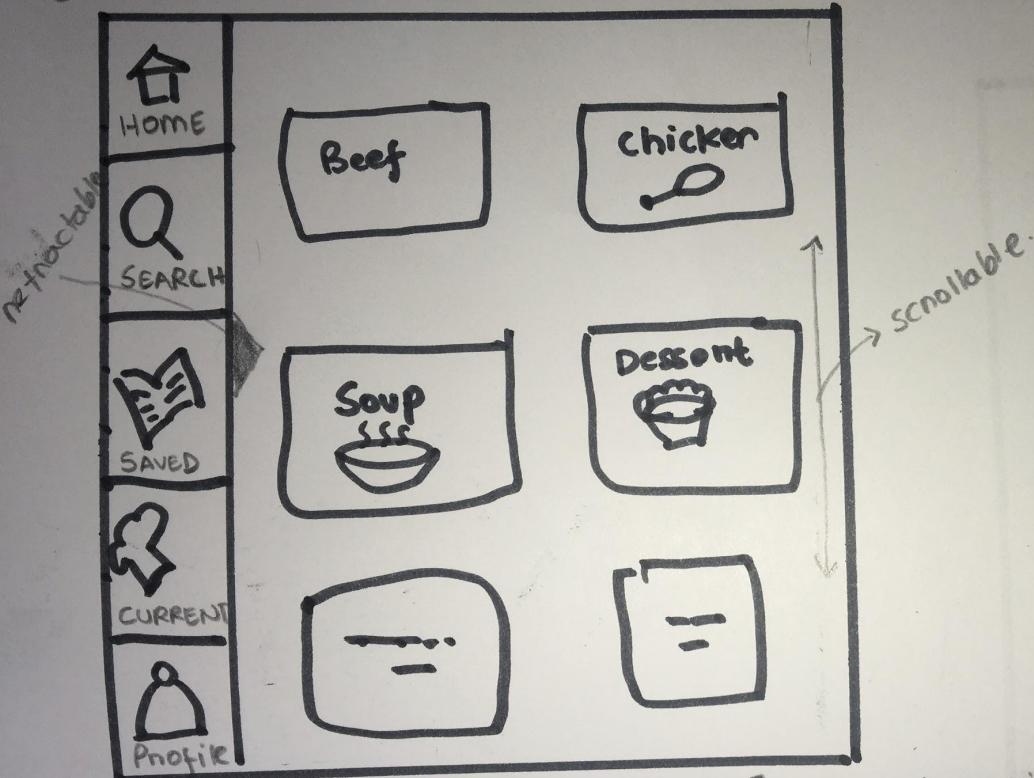
- Home Page:** Shows a grid of recipe categories: Beef, Chicken, Soups, and Stews. A legend below defines icons: house = home, Q = search, checkmark = saved recipes, cloud = recipes in progress, person = user profile.
- User clicks/taps on search icon:** Leads to the next screen.
- Search Screen:** Displays a search bar with "Pasta" typed in, and a list of categories: Beginner, Medium, Difficult. Below the search bar are the same four recipe categories (Beef, Chicken, Soups, Stews).
- User clicks on beginner box and types in pasta:** Leads to the next screen.
- Filtered Search Results:** Shows a list of results: Pasta Cabonara (1h 8 items), Pasta Fettuccine, and Pasta Linguini. The "Sort" button is highlighted.
- User selects ingredients least to most:** Leads to the next screen.
- Sorted Results:** Shows the same list of results, but the "Sort" button is now labeled "Ingredients - least to most".
- User has option check off items off the list:** Leads to the next screen.
- Detailed Recipe View:** Shows "Pasta Linguini" with "Info", "Ingredient" (Pasta 30g), "Steps", "Duration: 30 min", "Serving: 4 items", and "Cookware". A "Start" button is at the bottom.
- User clicks/taps on download button:** Leads to the final screen.
- Download Confirmation:** A message states "Download option for user" and "User clicks/taps on download button after he checks off the items he has".

Final Prototype (cont.)



Walkthrough

①



Legend :

= home page
 = search

= saved recip's
 = in progress cooking recip's
 = profile/account

Step 1:

- Stephan wants to find a recipe for pasta. He opens the application.

Knowledge?

- User is expected to be able to open applications from their devices

Motivation?

- Overarching goal to feed himself

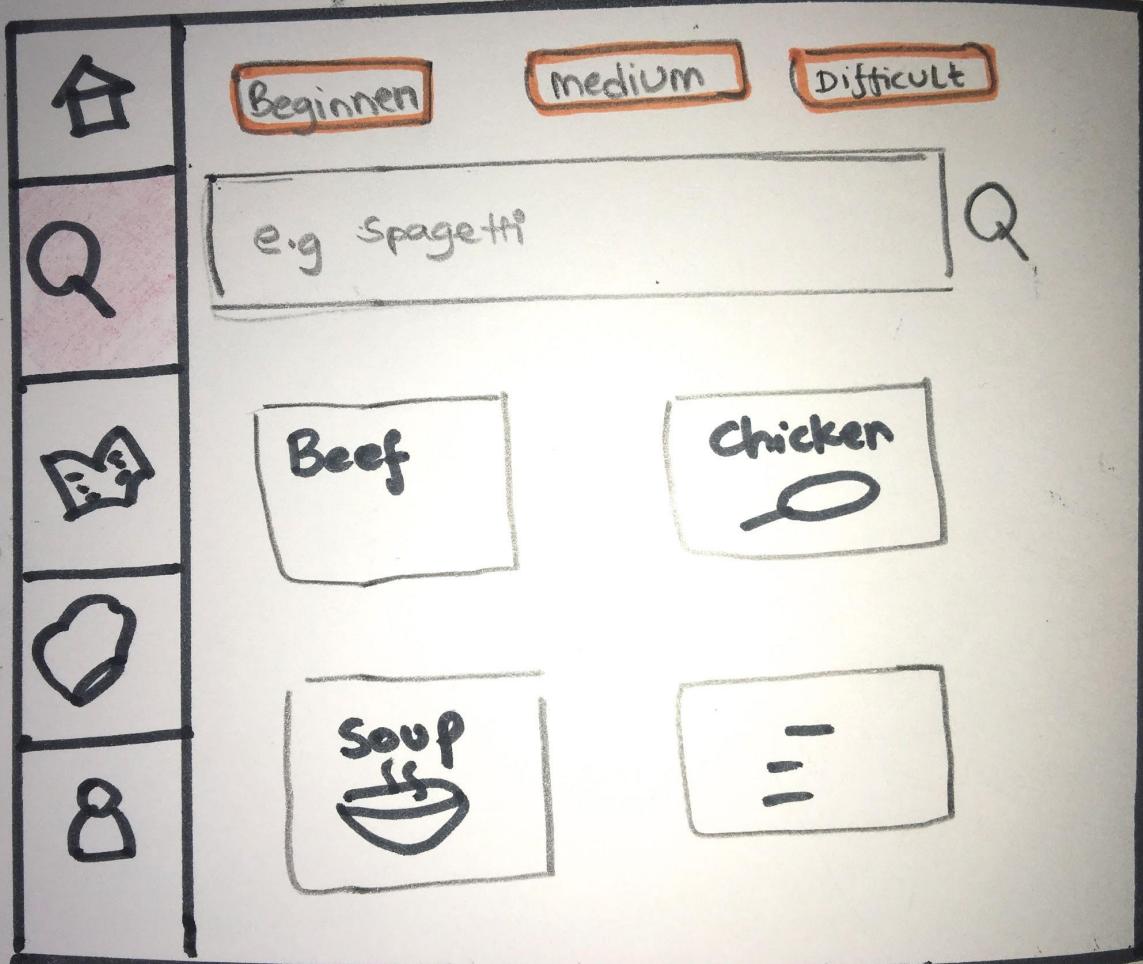
Potential Problem:

- N/A

Potential Solution:

- N/A

②



Step 2:

- In order to search for recipes of pasta, Stephan has to click on the search button.

Knowledge?

- Search icon is widely used to mean “search”

Motivation?

- Stephan is searching for a recipe with a general idea
- First instinct would be to search

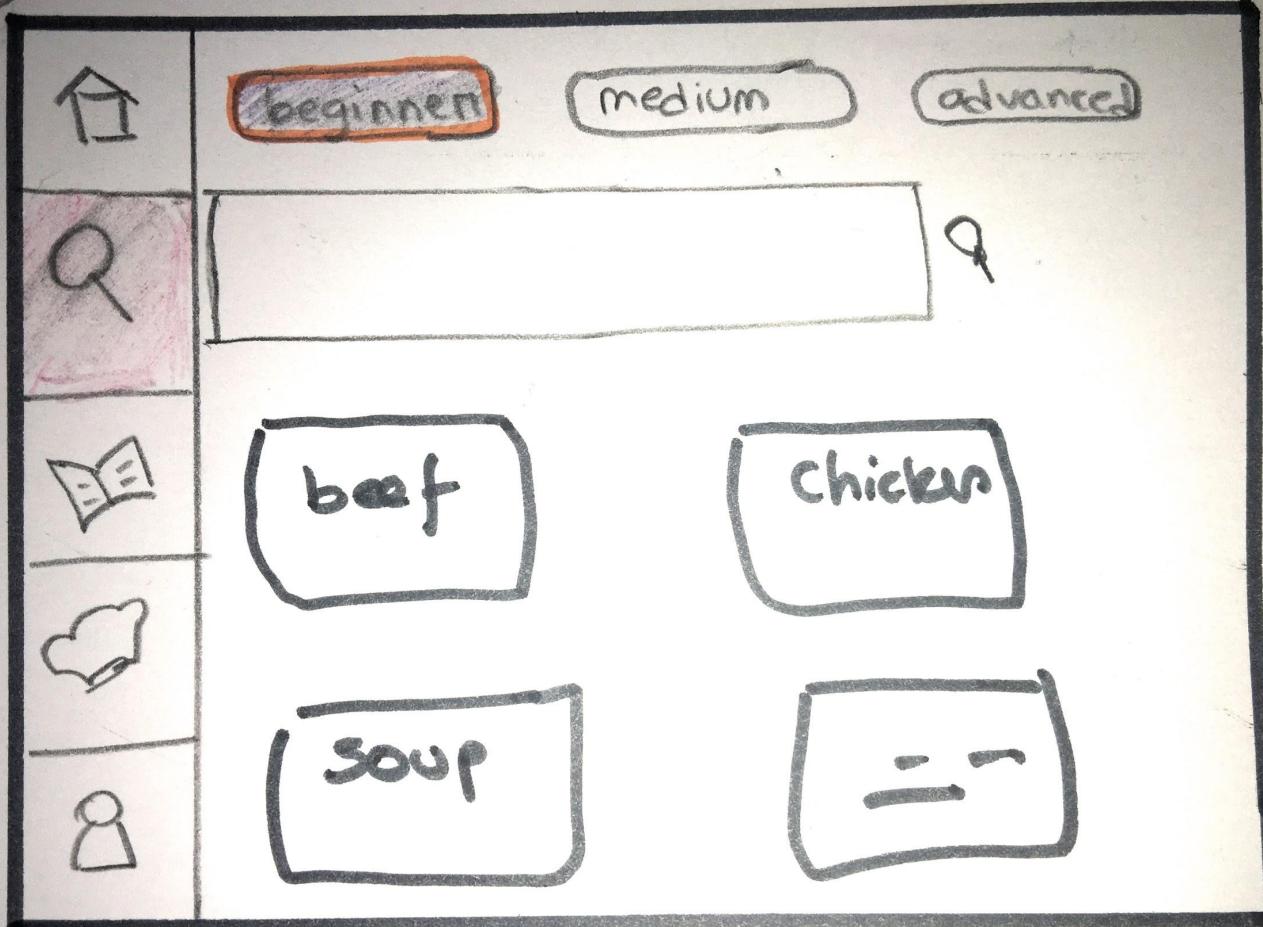
Potential Problem:

- N/A

Potential Solution:

- N/A

3



Step 3 :

- Stephan wants to see the recipes of pasta for beginner level difficulty. Therefore, he clicks on the beginner button above search bar.

Knowledge?

- Button is labelled

Motivation?

- Stephan wants to look for recipes for beginners.

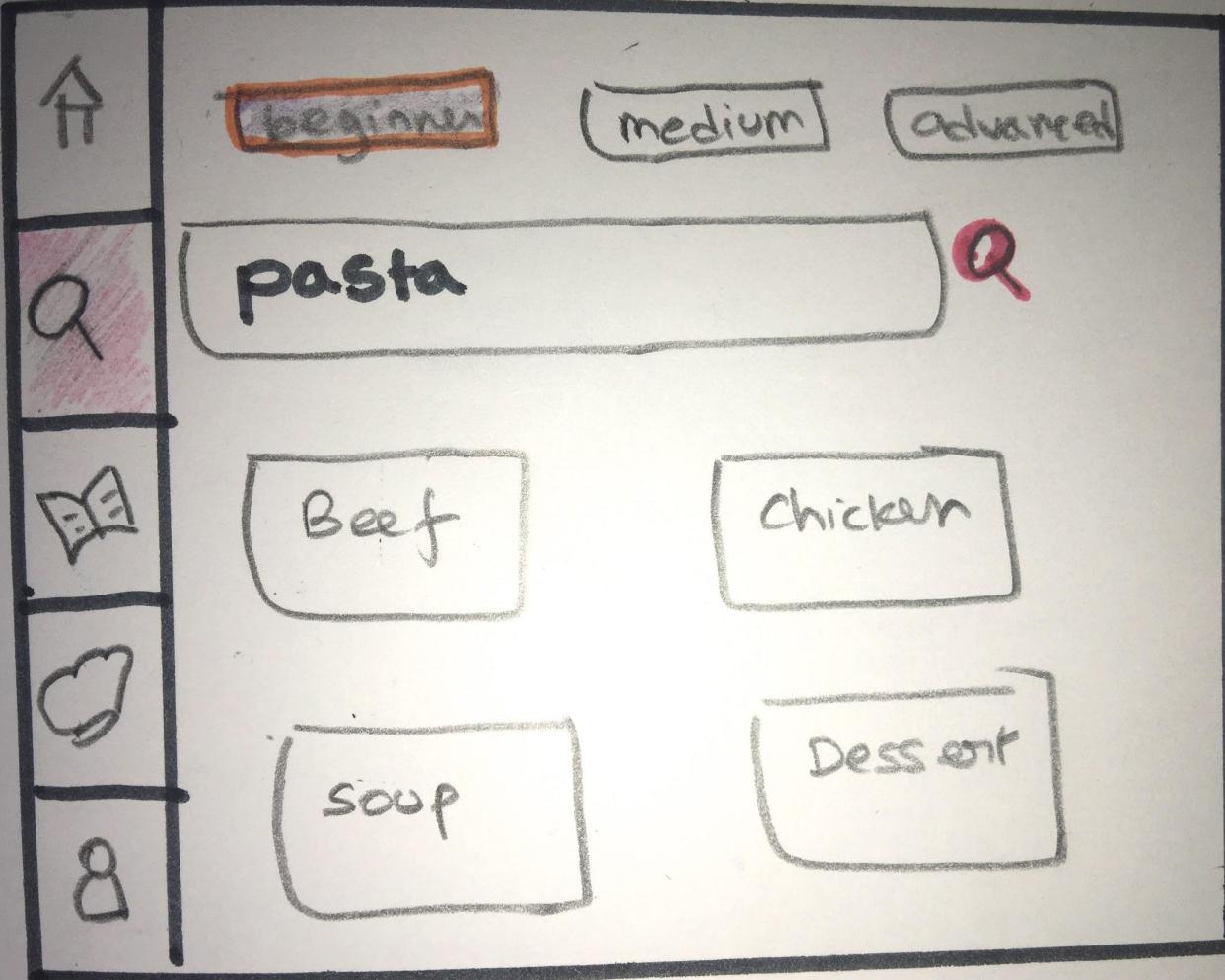
Potential Problem :

- First instinct might be to search right away

Potential Solution :

- Being able to select difficulty after search

4



Step 4:

- He will type in the word "Pasta" and press enter or click the search icon.

Knowledge?

- Intuitive

Motivation?

- Is craving a particular type of food

Potential Problem:

- He mistypes

Potential Solution:

- Search bar does not disappear
 - Can backspace

5

The diagram shows a search interface with a search bar containing the word "Pasta". Above the search bar are three filter buttons: "beginner", "medium", and "advanced". Below the search bar are two action buttons: "FILTER" with a magnifying glass icon and "SORT ↑↓". A large arrow points from the search bar area down to a list of pasta dishes.

- Pasta Carbonara**
★★★★★ 1hr ⏱ 8 items needed
- Pasta Fettuccine**
★★★★★ 40min ⏱ 6 items
- Pasta Linguini**
★★★★★ 25min ⏱ 4 items
-

Step 5:

- Lists of recipes pertaining to "Pasta."
- He would like to sort by least amount of ingredients...

Knowledge?

- N/A

Motivation?

- N/A

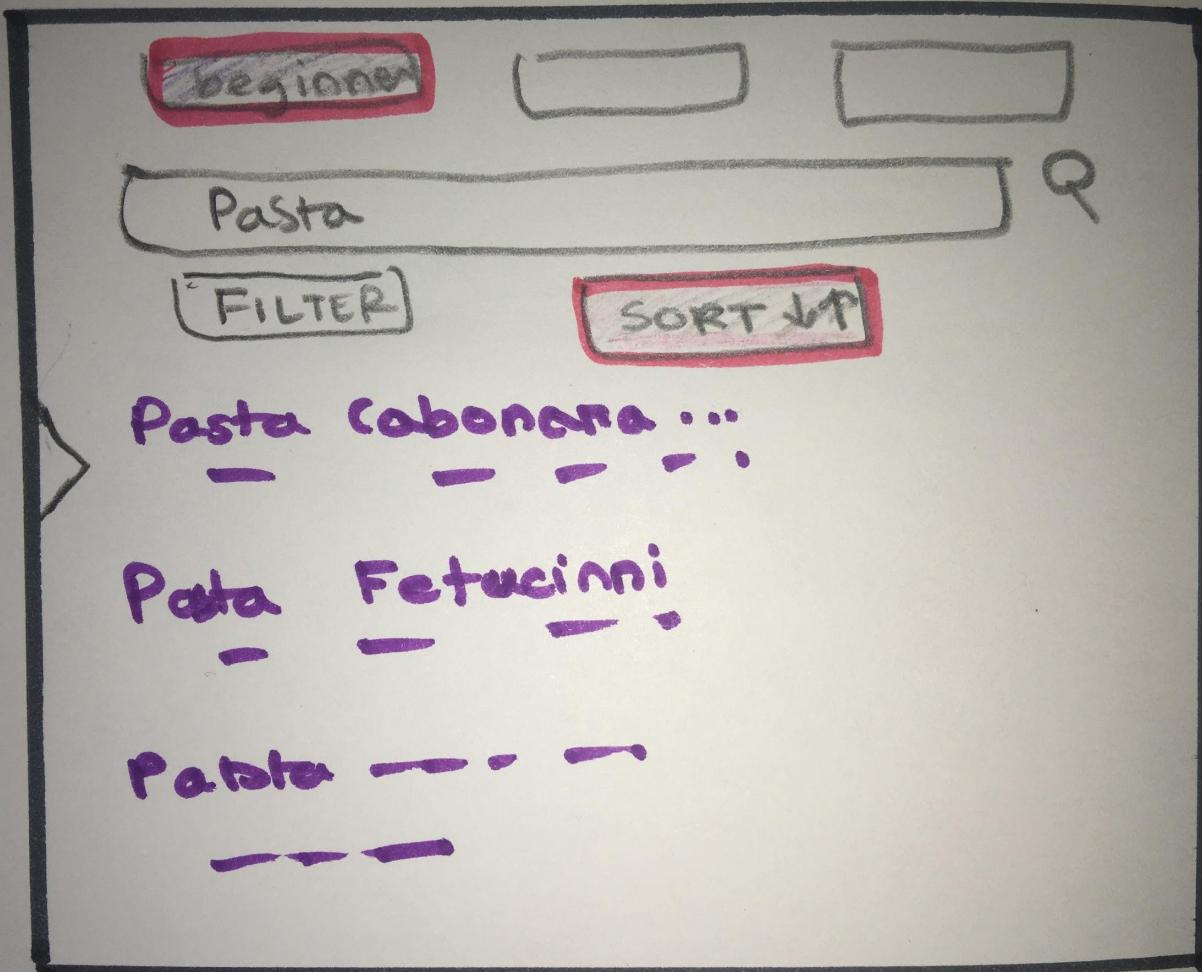
Potential Problem:

- N/A

Potential Solution:

- N/A

⑥



Step 6:

- Sort button pressed

Knowledge?

- Button is labelled
- Noticeable position

Motivation?

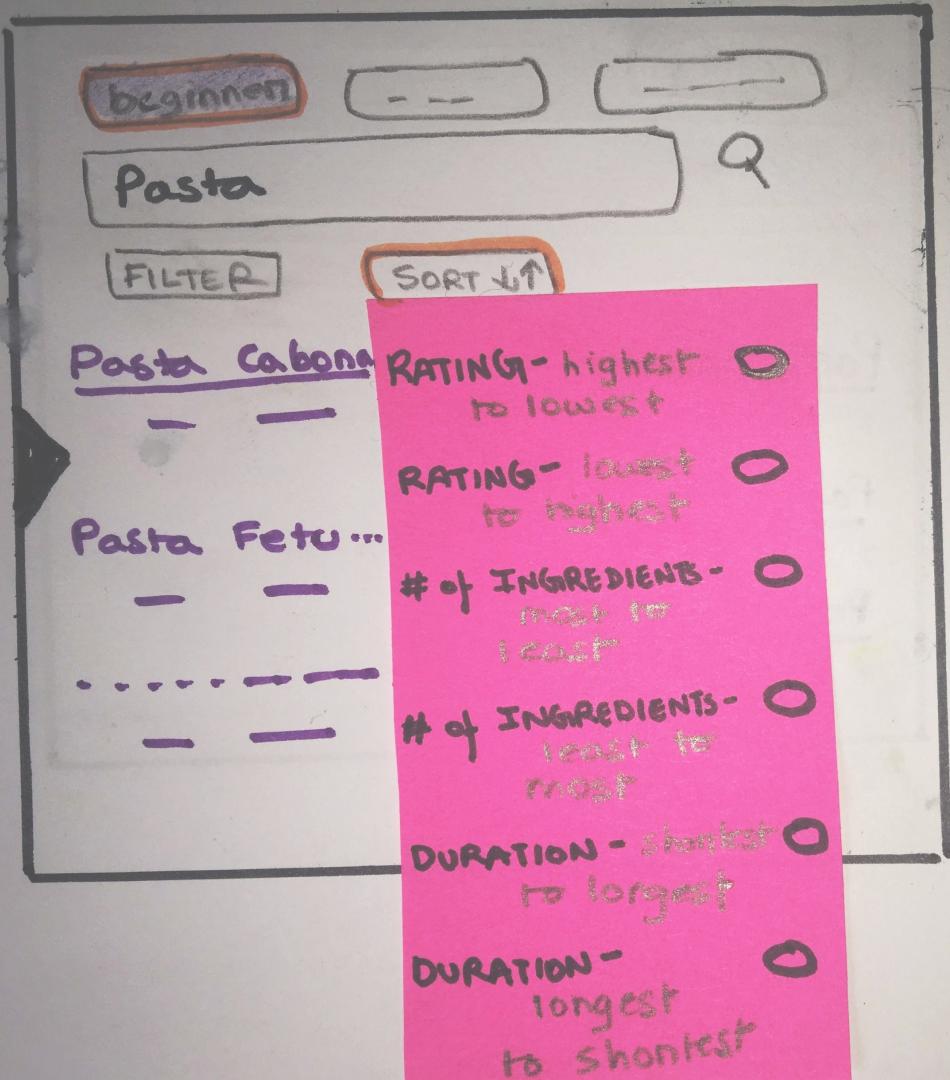
- Lots of recipes shown
 - Sorting is a way to organize the chaos
- Would like to organize by number of ingredients

Potential Problem:

- N/A

Potential Solution:

- N/A



Step 7

- List of sorting options appears

Knowledge?

- N/A

Motivation?

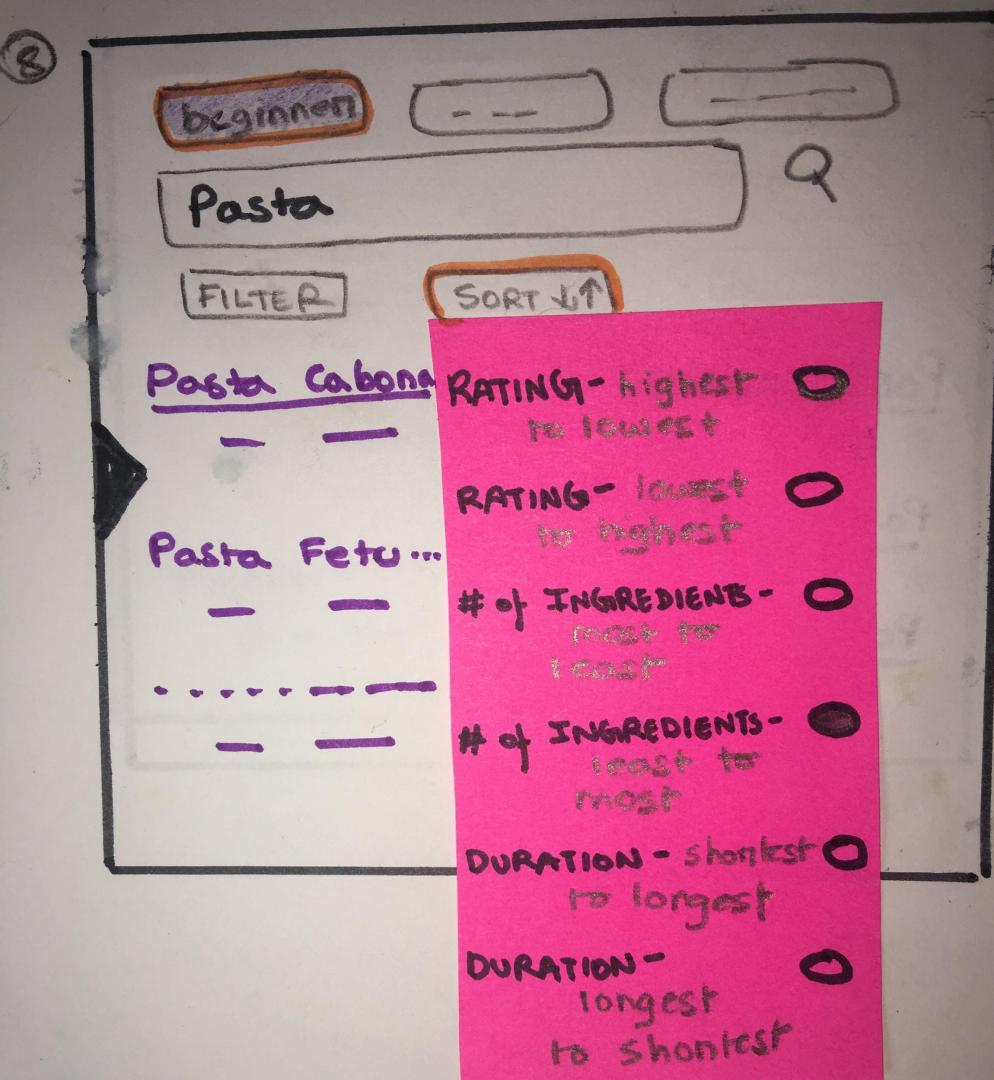
- N/A

Potential Problem:

- N/A

Potential Solution:

- N/A



Step 8:

- Stephan clicks on the sorting option for least ingredients

Knowledge?

- More than enough knowledge but...
 - Might get confused with ascending/descending order

Motivation?

- Motivation to sort list is still there

Potential Problem:

- Some are the same but reverse order
 - Could confuse

Potential Solution:

- Group similar sorting options
 - Toggle button for order

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beginner

Pasta

Filter

Ingredient least to most

Pasta Linguini

★★★★★ 25 mins Q 4 items

Pasta Fettuccine

★★★★★ 40 mins Q 6 items

Pasta Carbonara

★★★★★ 1 hr Q 8 items

Step 9:

- Shows list of sorted recipes by number of ingredients in ascending order

Knowledge?

- N/A

Motivation?

- N/A

Potential Problem :

- N/A

Potential Solution :

- N/A



beginner

Pasta

Filter

Ingredient least to most

Pasta Linguini



25 mins

4 items

Pasta Fettuccine



40 mins

6 items

Pasta Carbonara



1 hr

8 items

Step 10:

- Stephan clicks on the hyperlink for the first recipe "Pasta Linguini"

Knowledge?

- It is labelled with information labels
- Sorting bar provides feedback

Motivation?

- Wants a recipe with least item
- Easy to access now

Potential Problem :

- Might accidentally click on wrong recipe

Potential Solution :

- Add clear borders to each item on the list

11

Pasta Linguine

Download

25 mins Serving : 2

Info :

Ingredients :

- 1 package [8 ounce]
pasta
- 2 cups heavy cream
- 1/2 cup grated parmesan
- 2 pounds tomatoes

Equipment :

- boiling pot
- Skillet
- Strainer

Steps :

-
-
-

START

Step 11:

- Stephan views the information of the "Pasta Linguine" recipe

Knowledge?

- N/A

Motivation?

- N/A

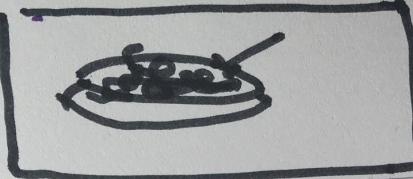
Potential Problem :

- No back button
 - Must open sidebar then click search

Potential Solution :

- Add a back button

Pasta Linguine



Download

25 mins ⏳ Serving : 2

Info :

Ingredients :

- 1 package [8 ounce] Pasta
- 2 cups heavy cream
- ½ cup grated parmesan
- 2 pounds tomatoes

Equipment :

- boiling pot
- Skillet
- Strainer

Steps :

-
-
-

START

Step 12:

- He checks the boxes of the ingredients and equipment he has.

Knowledge?

- Each item has a check box beside it

Motivation?

- In order to know what he has, he checks them to keep track

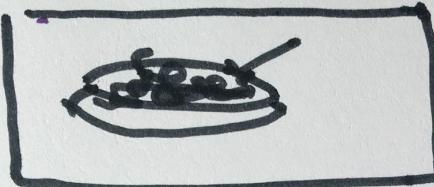
Potential Problem :

- If a lot of ingredients, could be tedious

Potential Solution :

- Have everything checked from the beginning.
- Unchecking may generally be easier
- OR “check all button”

Pasta Linguine



25 mins ⏳ Serving: 2

Info:

Ingredients:

- 1 package [8 ounce]
Pasta
- 2 cups heavy cream
- ½ cup grated parmesan
- 2 pounds tomatoes

Steps:

1. —
2. —
3. —



Step 13:

- Stephan downloads the recipe so he can print it

Knowledge?

- Download button is noticeable and is in a good position

Motivation?

- He wants to shop for missing ingredients

Potential Problem :

- Downloading recipe page might be excessive
 - Do you really need picture/equipment list?

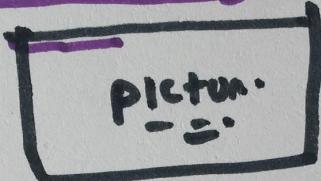
Potential Solution :

- Ability to download ingredient list/equipment list/steps separately

START

14

Pasta Linguine



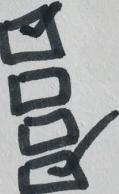
25 min @

Serving: 2

Info:

Ingredients:

1 —
2 —
3 —
u —



Steps:

1 - - -
2 —
3 —

Equipment:

1 +
2 —
3 —



Step 14:

- After downloading the recipe he is ready to start

Knowledge?

- N/A

Motivation?

- N/A

Potential Problem :

- N/A

Potential Solution :

- N/A

Step 15:

- He clicks the start button

Knowledge?

- Labelled/Noticeable

Motivation?

- Wants to cook

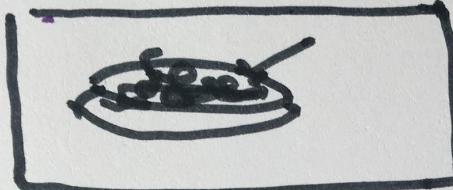
Potential Problem :

- N/A

Potential Solution :

- N/A

Pasta Linguine



Download

25 mins Serving: 2

Info:

Ingredients :

1 package [8 ounce]
Pasta

2 cups heavy cream
1/2 cup grated parmesan
2 pounds tomatoes

Steps:

1. - - -
2. - - -
3. - - -

Equipment :

boiling pot
Skillet
Strainer

START

16

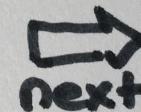
Ingredient list

Pasta Linguine

Step 1

Boil the pasta ---

— — — - —



Step 16:

- Stephan begins to make the recipe

Knowledge?

- N/A

Motivation?

- N/A

Potential Problem :

- N/A

Potential Solution :

- N/A

Ingredient list

Pasta Linguine

Step 1

Boil the pasta ----



Step 17:

- To move onto the next step, he clicks the next button

Knowledge?

- Labelled

Motivation?

- Finished with this step or wants to do something else while doing this step

Potential Problem :

- N/A

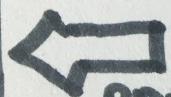
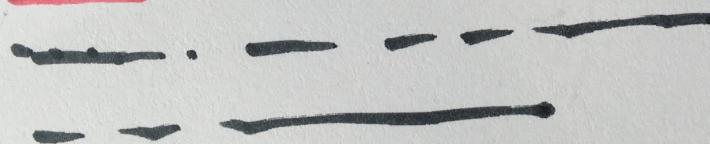
Potential Solution :

- N/A

Pasta Linguine

Step 2

Dice the tomatoes and —



previous



next

Step 18:

- Stephan does not know the "dice" term

Knowledge?

- N/A

Motivation?

- N/A

Potential Problem :

- N/A

Potential Solution :

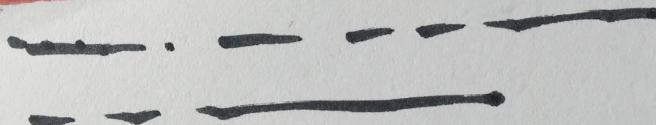
- N/A

19

Pasta Linguine

Dice Step 2

Dice the tomatoes and —



← previous

next →

Step 19:

- He clicks on it to see the definition.

Knowledge?

- Dice was underlined

Motivation?

- Motivation to understand terminology

Potential Problem :

- N/A

Potential Solution :

- N/A

20

Pasta Linguine

Step 2

Dice the tomatoes and —

DICE : cut into small cube
size pieces



Step 20:

- Upon clicking, a definition of the term is displayed on the screen.

Knowledge?

- N/A

Motivation?

- N/A

Potential Problem :

- N/A

Potential Solution :

- N/A

Pasta Linguine

Step 2

Dice the tomatoes and —

DICE : cut into small cube
size pieces.



Step 21:

- Stephan clicks the x button once he is done.

Knowledge?

- Generally used “X” to exit button is used

Motivation?

- He has learned what dice means and wants to continue

Potential Problem :

- X might be too small

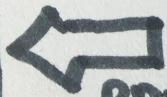
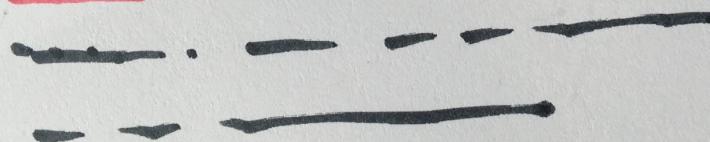
Potential Solution :

- “Press anywhere to exit” (or just outside box)

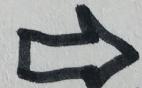
Pasta Linguine

Step 2

Dice the tomatoes and —



previous



next

Step 22:

- After clicking out of the definition box, it still displays the step.

Knowledge?

- N/A

Motivation?

- N/A

Potential Problem :

- N/A

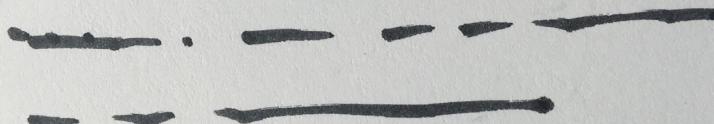
Potential Solution :

- N/A

Pasta Linguine

Step 2

Dice the tomatoes and —



previous



next

Step 23:

- He clicks the next button to move to the next step.

Knowledge?

- Labelled

Motivation?

- Finished with this step or wants to do something else while doing this step

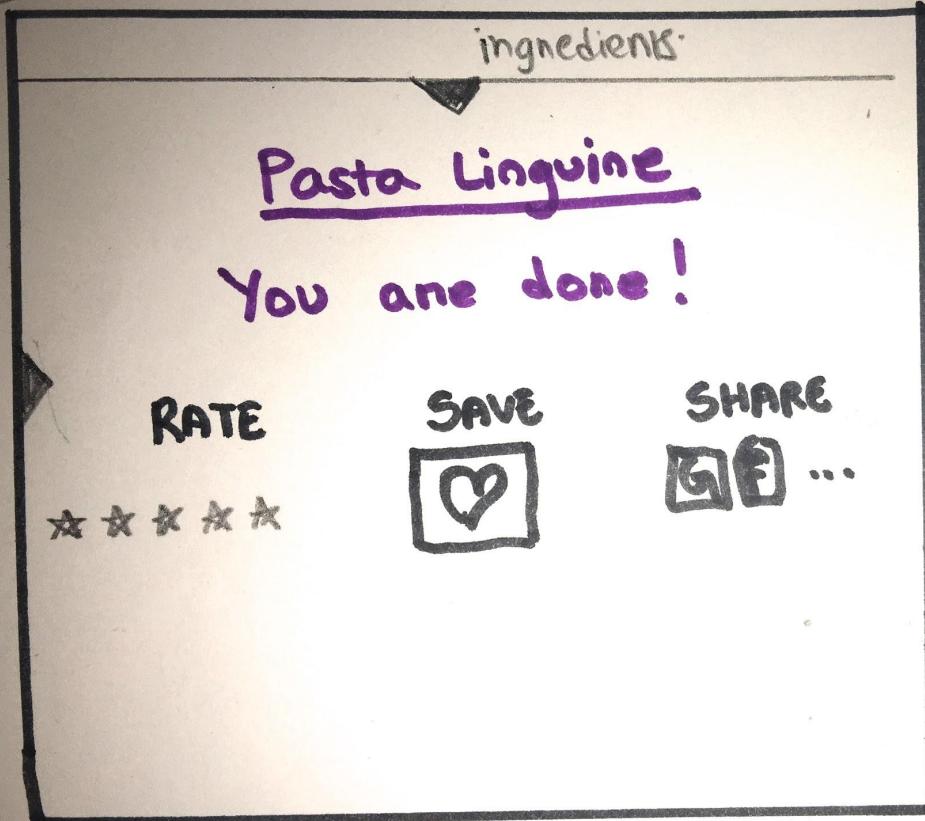
Potential Problem :

- N/A

Potential Solution :

- N/A
-

24



Step 24:

- Completion of the recipe brings him to an end page where he can rate, save, or share his recipe.

Knowledge?

- N/A

Motivation?

- N/A

Potential Problem :

- No option to exit/skip (aside from sidebar)
- No back button (clicks done by accident)

Potential Solution :

- Add a "return to recipe" button
- Add "Last step" button

ingredien~~T~~s

Pasta Linguine

You are done!

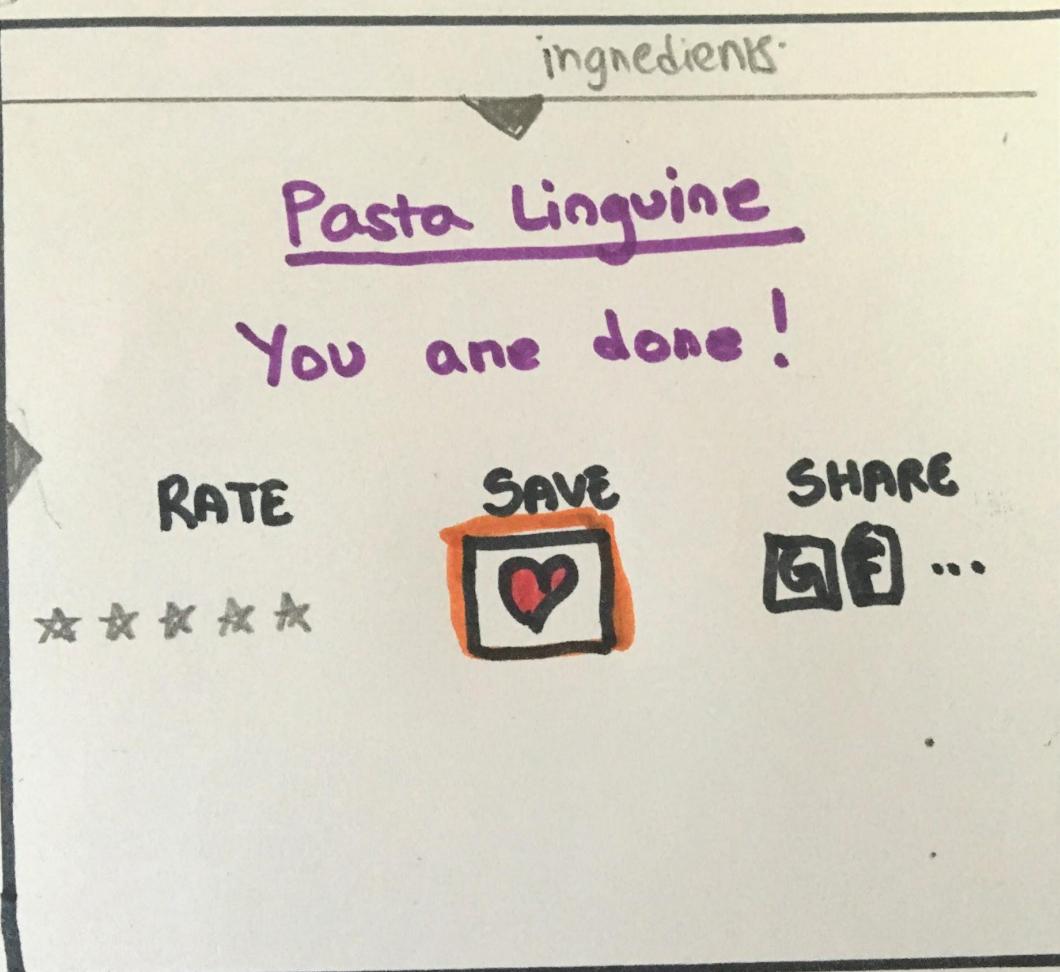
RATE



SAVE



SHARE



Step 25:

- Stephan clicks the save button to save the recipe.

Knowledge?

- Color-coded feedback is provided

Motivation?

- Motivation to save recipes

Potential Problem :

- The user might accidentally click save.

Potential Solution :

- Clicking the button again will undo the save action

26



Create your profile
to save all your
favorite recipes

SIGN UP WITH EMAIL

Already a member?

SIGN IN

Step 26:

- He will need to sign in to save his recipe.

Knowledge?

- N/A

Motivation?

- He wants to refer back to this recipe in future.

Potential Problem :

- Some users might not want to create an account

Potential Solution :

- The user had an option to download the recipe. So might be able to save the files in personal folder for example.
- Allow for users to save without account but encourage account

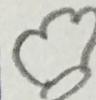
24

Create your profile
to save all your
favorite recipes

SIGN UP WITH EMAIL

Already a member?

SIGN IN



Step 27:

- Stephan clicks the “sign up with email” button

Knowledge?

- Labelled/Noticeable

Motivation?

- He wants to create an account so he can save his recipe

Potential Problem :

- N/A

Potential Solution :

- N/A

SIGN UP

Full Name

Email

Password

Create Account

Step 28:

- A sign up page is shown.

Knowledge?

- N/A

Motivation?

- N/A

Potential Problem :

- N/A

Potential Solution :

- N/A

29

SIGN UP

Full Name
Stephan Brown

Email

Password

Create Account

Step 29:

- Stephan enters his name

Knowledge?

- The label instructs to enter full name

Motivation?

- Wants to create account

Potential Problem :

- The field does not say if its required or not.

Potential Solution :

- An asterix and an instruction that these fields are required might clarify for user.

SIGN UP

Full Name

Stephan Brown

Email

StephanB@some.com

Password

must be between 8-10 characters

Create Account

Step 30:

- He enters his email

Knowledge?

- The label instructs to enter an email

Motivation?

- User wants to create an account

Potential Problem :

- He types in an invalid email.

Potential Solution :

- The system should check for valid email format.

31

SIGN UP

Full Name
Stephan Brown

Email
StephanB@some.com

Password
••••••••••

Must be between 8-10 characters

Create Account

Step 31:

- He enters a password

Knowledge?

- The label instructs to enter a password

Motivation?

- User wants to create an account

Potential Problem :

- N/A

Potential Solution :

- N/A

SIGN UP

Full Name

Stephan Brown

Email

StephanB@some.com

Password

••••••••••

Must be between 8-10 characters

Create Account

Step 32:

- Once he is done entering his information, he clicks the "create account" button.

Knowledge?

- Button is noticeable

Motivation?

- Motivation to create an account to have a profile.

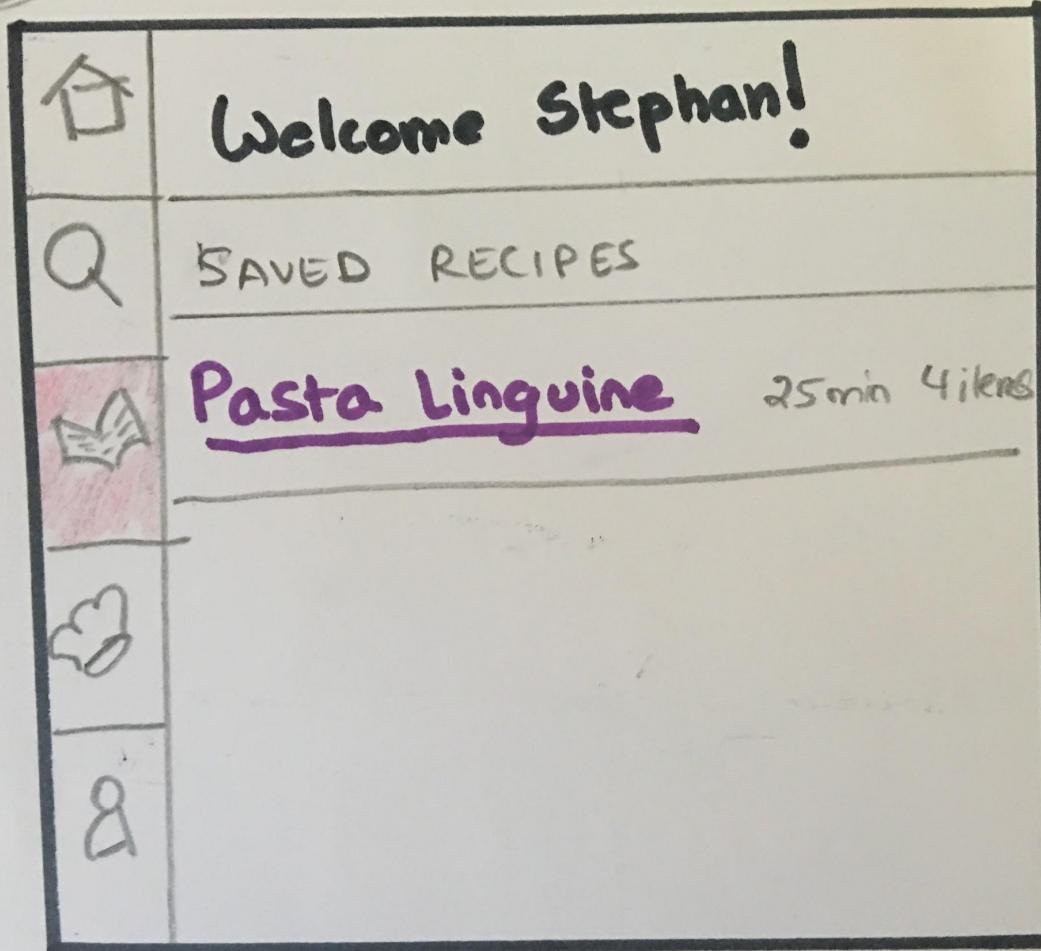
Potential Problem :

- Security problems?

Potential Solution :

- Make user type in password twice, add some constraints like caps/symbols

33

**Step 33:**

- He is then taken to his saved recipes.

Knowledge?

- N/A

Motivation?

- N/A

Potential Problem :

- What if he wanted to rate or share the recipe?

Potential Solution :

- Can add those options in the cookbook
- Or can return to completion page after instead of "cook book"