Recipe Ready
Product Backlog
Team 32

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Problem Statement

Currently, most recipe websites require that you know what you want to eat and then expect you to purchase the ingredients to make the desired recipe. More often than not, however, people don't know what they want to eat and have no interest in buying additional ingredients to make their meal. With our webapp, individuals will be able to search for recipes based on ingredients they already have, allowing them to find recipes based on those ingredients.

Background Information

Audience

Trying to cook a new food using current recipe websites can often result in spending excessive time and money acquiring ingredients. People who do not wish to purchase additional ingredients are assigned the tedious task of scouring through recipes till they find one for which they have all the ingredients.

Similar Websites:

Listed are two websites that provide similar services that we plan to provide:
> http://www.supercook.com/#/recipes
> http://www.myfridgefood.com/search-by-ingredients

Limitations:

A major limitation of these websites is their user experience. People would rather go through recipes manually and determine if they have the ingredients than provide input to these reverse recipe finders. Moreover, these websites could prove gimmicky, attracting lots of one time users that don't necessarily find a reason to come back. Our webapp will address these limitations by ensuring a smooth, intuitive, and aesthetically pleasing user interface that proves convenient and avoids the tedious nature of the mentioned sites. Moreover, our webapp will include a pantry feature that keeps track of foods you have and their expiration date, increasing the incentive for users to continue using the site on a regular basis.

Functional Requirements

ID	Functional Requirement
	Login and verification
0	As a user, I want to be able to register with an email address and password.
1	As a user, I want to be able to log in with my email and password.

2	As an admin, I want user passwords to be stored as salted hashes.
3	As a user, I want to be able to log out.
	Dietary restrictions
4	As a user, I want to be able to store a list of ingredients that represent allergies/dietary restrictions to my profile.
5	As a user, I want to be able to add dietary restrictions by ingredient.
6	As a user, I want to be able to remove dietary restrictions by ingredient.
	Shopping lists
7	As a user, I want to store separate lists of ingredients by amount as "shopping lists" on my profile.
8	As a user, I want to be able to delete and rename shopping lists.
	Pantry Management/Pantry View
9	As a user, I want all of my ingredients to be stored to my profile in my "pantry".
10	As a user, I want to be able to add ingredients to my pantry from a shopping list.
11	As a user, I want ingredients in my pantry to be subdivided into "packages" representing separate packages or quantities of each ingredient added at different times.
12	As a user, I would like to be able to specify an expiration date for each package in my pantry.
13	As a user, I want to be able to specify a purchase date for each package in my pantry.
14	As a user, I want the purchase date to be set to the date on which the package was entered by default.
15	As a user, I would like the ingredients in my pantry to be shown in descending order of the expiration date of the package with the closest expiration date.
16	As a user, I want each ingredient entry in the pantry view to display the expiration date of the next package that will expire, along with the amount in that package.
	Ingredients form
17	As a user, I want to be able to enter a list of ingredients by amount into an ingredients form.
18	As a user, I want to be able to add ingredients to my pantry from the ingredients form.

19	As a user, I want to be able to add ingredients to a new shopping list from the ingredients form.
20	As a user, I want ingredients that are in my dietary restrictions list to be omitted from the ingredients form.
	Recipe search
21	As a user, I want recipes found during searches to be ignored if they contain ingredients in my dietary restrictions.
22	As a user, I want to be able to automatically add ingredients I do no have for a recipe to my shopping list.
	Recipe View
24	As a user, I want to be able to "confirm" a recipe and have the required ingredients be subtracted from my available ingredients.
25	As a user, I would like the recipe view to display separate lists of ingredients that are in my pantry and not in my pantry.
26	As a user, I would like to be able to add ingredients from the recipe view to a pre-existing or new shopping list.
	END
27	As a user, I would like to be able to see what percentage of ingredients I have for a recipe.
	[If time permits]
28	As a user, I want to have minor ingredient (spices) replacements suggested to me (if time permits).
29	As a user, I want to know where I can buy ingredients I need for a recipe. (If time permits).
30	As a user, I would like to be able to search for recipes by cuisine style (if time permits).
31	As a user, I would like to be able to scan grocery store item's barcodes (if time permits).
32	As a user, I would like to be able to submit a feedback form (if time permits).
33	As a non-registered user, I want my ingredients to be stored as browser cookies (if time permits).
34	As a user, I want displayed recipes to be sorted based on the proportion of required ingredients available in my pantry (if time permits).

35	As a user, I would like to have recipes suggested to me based on the items I have in my saved list of ingredients (if time permits).
	Developer Wishlist
36	As a developer, I want recipes to be obtainable from the internet via web crawling*
37	As a developer, I'd like to be able to view user feedback (if time permits).
38	As a developer, I would like to gather statistics on my users.

Non-Functional Requirements

1. Front-end user interface should scale well on mobile and desktop browsers.
2. The server should handle 100 concurrent users.
3. Front-end user interface should be as user friendly as possible.
4. Front-end user interface should be very responsive.
5. Database should store login info, preferences, and pantry entries for up 500 users.
6. Recipe search queries should be optimized.
7. Passwords (hashes) and user info should be stored securely.