

Night-In

Team 19

Project Backlog

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Problem Statement

Becoming an amateur home chef is a skill that many aspire to acquire. Our web-application gives the ability for anyone to quickly go online and create their own personal recipe book filled with custom, and tailored recipes based on their preferences. Preferences can be based on dietary restrictions, access to ingredients, or personal taste. Many online recipe websites contain massive amounts of fluff around the information the user is looking for, and don't allow the user to substitute similar ingredients. Our product will not only be straightforward with instructions and allow the user to save their favorite recipes and provide ratings, but will also allow for the substitution of ingredients based on the previously mentioned preferences of the user. Furthermore, we will provide a way for users to track the ingredients that they have on hand and allow them to make foods with only the ingredients they have or allow them to get a cost estimate for recipes with which they don't have all the ingredients for.

Background Information

Audience

Many people of all ages and backgrounds have an interest in learning how to cook whether it be for themselves or others. The problem lies in where to start once that person decides to go online looking for recipes and cooking instructions. Many websites contain a lot of fluff within their recipes or require an amount of overhead in terms of ingredients and utensils that a beginner may not have. Our web-app will be targeted at these novices up to the experienced home cook with the goal of providing simple, easy to understand recipes in an intuitive manner.

Similar Platforms & Limitations

The most similar platform to ours would be *allrecipes* which is a recipe website. However, like many recipe websites, it provides the recipes and instructions in a social media format with users writing their own public recipes for others to find. Our product will use an api to deliver more simplistic recipes without the ambiguity and fluff that can be involved in users writing their own recipes. Our product may be more simplistic and smaller than other websites, but we're trying to use that to our strengths as it will be more accessible and straight-forward. It also will hopefully include a meal-prep aspect to be able to scale these simplistic recipes into making multiple meals which is a unique component.

Environment

Our environment is going to be largely done using JavaScript. We are going to use React.js framework on the frontend along with Material-UI, Passport.js, and Redux, with Node.js and Express with Mongo on the backend. React will be used to build out the basic structure of our UI while using the components from Material-UI to help build out the actual components.

Functional Requirements

Backlog Id	Functional Requirements	Hours	Status
<u>1</u>	As a User, I would like to create an account	6	Completed in sprint 1
<u>2</u>	As a User, I would like to look up recipes	9	Completed in sprint 1
<u>3</u>	As a User, I would like to log into my account that I set up before	3	Completed in sprint 1
<u>4</u>	As a User, I would like to add my own custom recipes to my saved recipes lists by creating them from the saved page	6	Completed in sprint 2
<u>5</u>	As a User, I would like to log out of my account	3	Completed in sprint 1
<u>6</u>	As a User, I would like to create, edit, delete and print multiple grocery lists	7	Completed in sprint 2
<u>7</u>	As a User, I would like to search by ingredients	7	Completed in sprint 1
<u>8</u>	As a User, I would like to set a list of ingredients that I cannot use in an advanced search and be able to save these details to my account	5	Completed in sprint 2
<u>9</u>	As a User, I would like to save searched recipes to my account	5	Completed in sprint 1
<u>10</u>	As a User, I would like to track my ingredients on hand	7	Completed in sprint 2
<u>11</u>	As a User, I would like to write notes on my saved recipes	5	Completed in sprint 1
<u>12</u>	As a User, I would like to edit my saved recipes	6	Completed in sprint 2
<u>13</u>	As a User, I would like to see a price breakdown of recipes	5	Excluded: API returned graph that could not be used, and API lacks route for pure data
<u>14</u>	As a User, I would like to see a price	6	Excluded: API lacks

	breakdown of recipes based on the current ingredients that I have on hand		route for pure data
<u>15</u>	As a User, I would like to specify my diet (i.e. vegetarian, vegan, etc.) to receive relevant search results in an advanced search and be able to save this to my account	5	Completed in sprint 2
<u>16</u>	As a User, I would like to give ratings to particular recipes	7	Completed in sprint 2
<u>17</u>	As a User, I would like to sort my saved recipes by ratings	7	Completed in sprint 2
<u>18</u>	As a user, I would like to be able to print out recipes	5	Completed in sprint 1
<u>19</u>	As a user, I would like to be able to view random recipes	4	Completed in sprint 1
<u>20</u>	As a user, I would like to view nutrition information for recipes in a table format	6	Completed in sprint 2
<u>21</u>	As a user, I would like to find substitutions for ingredients	6	Completed in sprint 2
<u>22</u>	As a User, I would like to be able to delete recipes from my saved recipes	4	Completed in sprint 1
<u>23</u>	As a user, I would like to make a meal plan based on my saved recipes by adding them from the saved page	8	Completed in sprint 2
<u>24</u>	As a user, I would like to modify/delete recipes in my meal plan	6	Completed in sprint 2
<u>25</u>	As a user, I would like to search for recipes using only the ingredients I have on hand	6	Completed in sprint 2
<u>26</u>	As a user, I would like to have the option of saving when I bought ingredients on the app to track freshness	5	Completed in sprint 2
<u>27</u>	As a user, I would like to combine simple recipes into a single meal on my meal planner	5	Completed in sprint 2
<u>28</u>	As a user, I would like to have a multiplier	4	Completed in sprint 2

	on a viewed recipe in my search results so that I can get proper ingredient quantities if I were to make the recipe more than once		
<u>29</u>	As a user, I would like my ingredients on hand to decrease after clicking a button to indicate that I have made a recipe	6	Completed in sprint 2

Non-Functional Development Requirements

<u>30</u>	As a developer, I would like to have a basic framework of the frontend to build off of for my user stories	7	Completed in sprint 1
<u>31</u>	As a developer, I would like to have the frontend be hosted on firebase	5	Completed in sprint 1
<u>32</u>	As a developer, I would like the server to be hosted remotely and accessible	5	Completed in sprint 1
<u>33</u>	As a developer, I would like to have my web traffic secure via https	5	Completed in sprint 1

Non-Functional Requirements

- As a user, I would like my get my search results in a timely manner
- As a user, I would like the UI to be intuitive and easy to use
- As a developer, I would like for my application to run fast and with few (or no) noticeable bugs
- As a developer, I want a reasonable number of comments so that I may later understand code I wrote and code that other people wrote
- As a developer, I would like my application to store my users' data securely
- As a developer, I would like my application to run without crashing

Use Cases

Case: Create an account and log out (Functional Requirements: 1, 5)

User Action	System Response
1. Navigate to the homepage of the app	2. The home page of the app displays
3. Click Create account/Login	4. App redirects to <website>/auth/google
4. Goes through the Google account process	5. App redirects to the homepage but Create account/Login now says Logout
6. Click Logout	7. App refreshes but Logout now says Create account/Login

Case: Login and search for a recipe (Functional Requirements: 2, 3, 15, 29)

User Action	System Response
1. Navigate to the homepage of the app	2. The home page of the app displays
3. Click Create account/Login	4. App redirects to <website>/auth/google
4. Goes through the login to Google account process	5. App redirects to the homepage but Create account/Login now says Logout
6. Click on the search bar, type a recipe in, and click search	7. The app displays recipes that are similar to what the user put in
8. Click on the advanced options menu near the search bar	9. Diet restriction box pops up
10. Select a diet restriction and click search again	11. The app displays recipes that are similar to the user input and loosely adhering to the selected dietary restriction.
12. User saves the recipe, decides to make the recipe, and clicks "I made it!" or similarly name button from the saved page	13. System automatically deducts the recipe ingredients from the ingredients in the pantry

Case: Add custom recipes (Functional Requirements: 4)

User Action	System Response
1. Login to app	2. The home page of the app displays
3. Click saved recipes button	4. App redirects to show the recipes that the user has saved

4. Click add recipe	5. A modal pops up with areas to put in the recipe name, image, ingredients, and directions
6. Insert all information, then click submit	7. App refreshes but now the new recipe is in the list of saved recipes

Case: Adding Ingredients and Building a Grocery List (Functional Requirements: 10, 6)

User Action	System Response
1. Navigate to the Pantry	2. The Pantry system displays
3. Enter ingredients that I have (i.e. Chicken, cheese, bread)	4. Ingredients display on list after being entered
4. Navigate to the Search section, search for a recipe, and select it (i.e. Chicken Casserole)	5. A list of recipes will be displayed followed by a popup modal upon selection
6. Click on the “Add to Grocery List” button	7. A list containing that recipes ingredients is added to the Grocery List page
8. Print the list using the browser’s print functionality	

Case: Finding and Saving a Relevant Recipe (Functional Requirements: 7, 8, 9)

User Action	System Response
1. On the top right, click on the button to edit settings	2. A modal pops up with options to configure ingredients
3. Input ingredients that the user does not want (i.e. they are allergic)	4. The list reflects the changes and they are saved in the system
5. Navigate to the Search page	6. The Search page is displayed with random results
7. Search for a recipe by inputting ingredients into the advanced search and applying the saved settings toggle	8. The site displays a list of recipes that do not contain the ingredients previously specified as excluded ingredients and that are still relevant to the ingredients input into the search
9. After finding a nice recipe, click on it	10. A modal displays the recipe and its details
11. Click on the “Save” button	12. A confirmation notification pops up

	showing that the recipe has been saved
13. Navigate to the saved recipes page	13. The recipe that was saved is now displayed in this section

Case: Editing and saving notes on saved searched recipes (Functional Requirements: 11, 12)

User Action	System Response
In the user's list of saved recipes, click on a recipe	A modal displays the recipe and its details
Click on the Notes tab	An notes box appears
Write something and click Save Notes	The text will appear in a notes section of the recipe and be saved
Click the edit button	An edit modal will appear
Change some values and click save	The changes will be reflected in the modal

Case: ~~See a price breakdown of a recipe and then include current ingredients (Functional Requirements: 13, 14)~~

User Action	System Response
Click on a recipe	A modal displays the recipe and its details
Click on price breakdown button	A list of the ingredients will appear along with the price of each ingredient and a total
Click on Include my ingredients button	The list and total will change to not include ingredients in the user's list of on hand ingredients
Click on close button	The list will collapse

Case: Add and sort by recipe ratings (Functional Requirements: 16,17)

User Action	System Response
1. Login to app	2. The home page of the app displays
3. Click saved recipes button	4. App redirects to show the recipes that the user has saved
4. Click on a recipe	5. Modal appears
6. User enters a rating from 1-5	7. Rating is shown

8. Click on sort by rating descending button	9. Saved recipes are listed in descending order by rating
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Case: Print a recipe (Functional Requirements: 18)

User Action	System Response
1. Login to app	2. The home page of the app displays
3. Click saved recipes button	4. App redirects to show the recipes that the user has saved
4. Click on a recipe	5. Recipe details appear on screen and user clicks print
6. Print preview modal appears, the user selects their printer, and clicks print	7. The modal closes and the recipe prints to the user's printer

Case: View random recipes (Functional Requirements: 19)

User Action	System Response
1. Login to app	2. The home page of the app displays
3. Click random recipes button	4. A list of random recipes appears

Case: View nutritional information (Functional Requirements: 20)

User Action	System Response
1. Login to app	2. The home page of the app displays
3. Click saved recipes button or search for recipes	4. App redirects to show the recipes that the user has saved or searched
5. Click on recipe	6. Recipe modal pops up
7. Click on the nutrition tab	8. Nutrition facts appear on screen in table format

Case: Substitute ingredients (Functional Requirements: 21)

User Action	System Response
1. Login to app	2. The home page of the app displays
3. Click saved recipes button or search for recipes	4. App redirects to show the recipes that the user has saved or searched

5. Click on recipe	6. The recipe modal displays
7. Click on an ingredient	8. A substitute will display

Case: Delete saved recipes (Functional Requirements: 22)

User Action	System Response
1. Login to app	2. The home page of the app displays
3. Click saved recipes button	4. App redirects to show the recipes that the user has saved
5. Click on trash can/ delete icon next to recipe	6. "Are you sure" window pops up
7. Click "Yes"	8. Recipe is removed from saved list

Case: Meal Plan (Functional Requirements: 23, 24, 27)

User Action	System Response
1. Navigate to the saved section of the app	2. The saved recipes display
3. Select a recipe and click add to meal plan	4. A modal with meal plan details is displayed
5. Fill in details, click add, and navigate to the meal plan page	6. The recipe is now displayed on the input day of the calendar
7. Click on the recipe	8. The recipe is displayed again
9. Click delete from meal plan	10. The recipe is now gone
11. Follow the previous procedures to add two recipes on the same date a time	12. The newly selected recipe should now display with the previously selected one

Case: Making multiple meals with on hand ingredients (Functional Requirements: 25, 28, 29)

User Action	System Response
1. With ample ingredients in the on hand list, go to the search section and filter by recipes with on hand ingredients and search for a basic recipe	2. A number of recipes should display that can be made with the ingredients in the on hand system
3. Click on a recipe	4. A modal should display with the recipe
5. In the quantity field, enter 2	6. The ingredient amounts listed should double

7. Click on the subtract from on hand ingredients button

8. A message should display that notifies the user of the removal of the appropriate ingredients from their on hand list