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UX: Alpgiray & Elsy Aranda

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From Problem to Solution

How to reduce food waste? How to keep track of your food consumption?

Keep track of the groceries you have at home.

Get recipe suggestions based on the food you already bought. _

How Ingreduce works



Add Ingredients

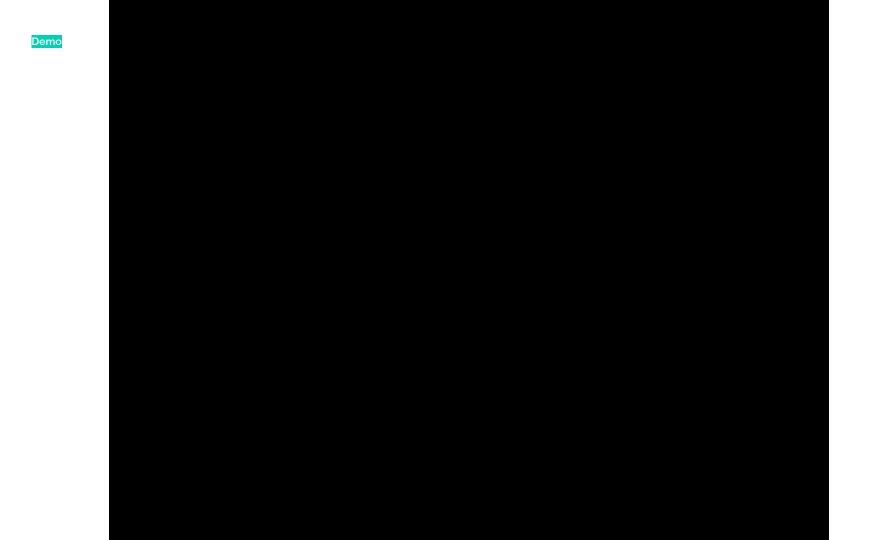


Select 'must use' Ingredients



Get Recipe Suggestions

Ingreduce & Cooking = Reducing food waste!





Tech Stack



UX

Figma MIRO uxpressia.com visme.co

WD FE

React JS with Bulma CSS Library



WD BE

Firebase Node.js Express.js MongoDB Atlas

DS (Python)

BeautifulSoup Requests Pandas Gensim NLTK

Ups and Downs

I'm happy to have been able to deliver a fully functional backend after spending a lot of time on a Frankenstein's monster-like approach to Firebase.

(Of course this also means that there are a lot of things that I wish I had had more time to work on...)

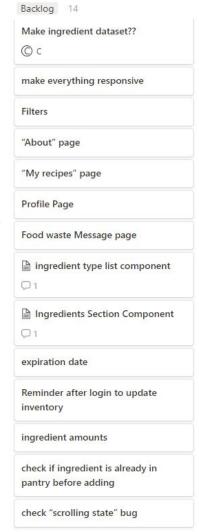
The functionality to add ingredients was a difficult one and I was very happy when it finally did work.

If we would have had more time it would have been awesome to do the styling from scratch to give UX more flexibility and Frontend Devs more CSS practice.

UX collaborated nicely with the developers despite the time constraints.

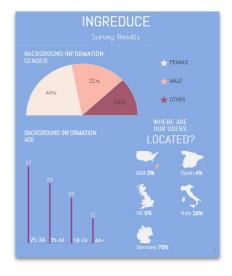
In the backlog, we would have liked to implement more features that the UX team worked on like the profile page, my recipes page or a food waste message page.

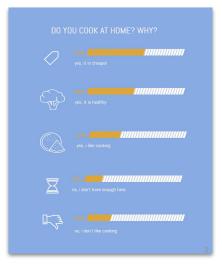
Team: Alpy, Aljoscha, Catarina, Celine, Elsy and Sarita 🎳



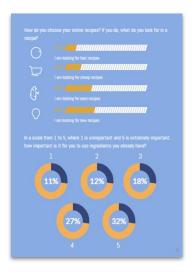


User Research











Personas & Scenarios



Ben came home from work and realized that it was 19 o'clock. He checked that he had no dinner. He opened the refrigerator and saw that there was some spinach and 200 grams of ground beef inside. Furthermore, he didn't want to prepare the same meal he prepared vesterday because he had been eating the same meal for two days. He didn't want to go down from his fourth-floor building to the grocery store, which he would reach in ten minutes on foot. He was too tired and didn't have time for shopping. He wanted to sit on his coach to watch the cycling tournament that would start in two hours. He started looking for recipes on the website he always checked, but he had tried all the recipes that came his way. He also looked at the ingredients of the recipes he did not try. He realized that he did not have enough material. He opened the "our product" site, which he heard from his friends, and took turns choosing the ingredients that were in the refrigerator. When he clicked the "recipe search button". In a short time, different recipes appeared in front of him. Filtered and sorted by preparation time. He chose the shortest one, but this was a recipe he knew before. He chose the second recipe and the recipe he hadn't known before. He looked at the materials needed. Except for one missing, he had everything he had to cook the meal. There was a suggestion for the missing one and he liked it. He cooked his dinner and watched the bike race with his new style spinach.

Anna was invited to the park on Saturday afternoon for her friend's birthday party. She didn't have enough time for shopping, as she left the bar she was working in very late on Friday evening. When she woke up at noon on Saturday, she realized she had very little time to get ready for the party. She would prefer to make a cake from home, as it would be very expensive to buy a ready-made cake from outside. She went to the kitchen and opened the fridge. Except for a few fruits, unfinished ice cream, some peanuts and walnuts, none of the ingredients were complete. When she called her aunt, who loves to cook, she wanted to get her opinion, but she couldn't find what she was hoping for. She chatted with her roommate, wanted some ideas from him, but was unsatisfied. She opened site "our product" and chose all the materials she has. Deep in the kitchen, he found a few more perishable items. She got permission from her roommate to use these materials. She read the recipes she chose from the site. She liked the approaches of each of them, and she preferred to make an experimental cake from all the recipes she liked from the site. A cake recipe was perfect and everyone at the party enjoyed it. She added these three recipes she saw on the site to the "my recipes" tab for later use.

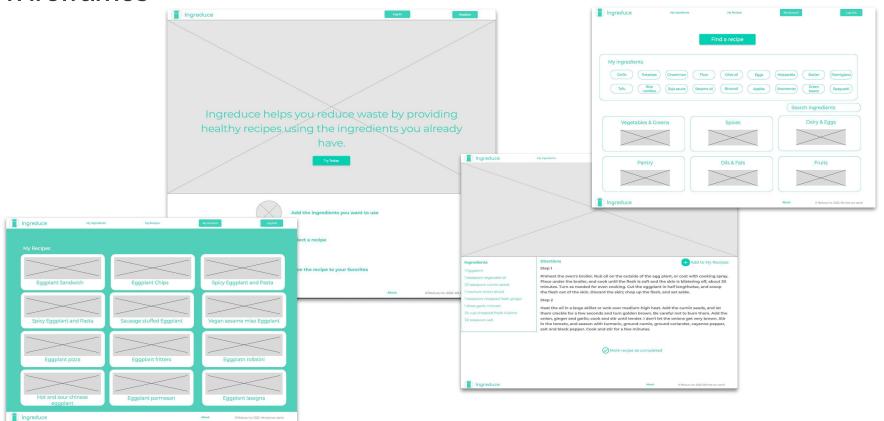




Larissa picked up her children from school and came home. After taking care of them in their room, she opened the fridge to cook dinner. She asked what food their children would like to eat. Besides what the kids wanted. there were a few other healthy meal options for them, but there are not enough ingredients. For these, she texted her husband the shopping list. Within a few hours, when her husband came home with bags, they realized that several items of the list were missing. It was too late to reorder, and everyone in the house was pretty hungry. That's why they launched the "our product" website. She researched a few possible recipes to make the dish the kids wanted. She chose one of the recipes she found. In addition, she found another recipe that included a few perishable vegetables. Together with her husband, they completed the meal in a short time, although the ingredients were missing.

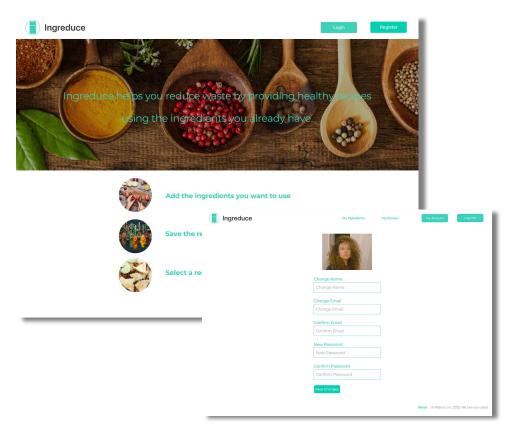


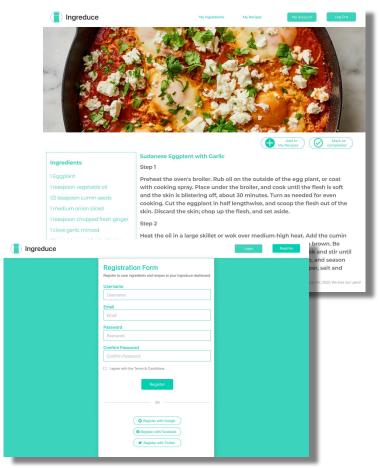
Wireframes





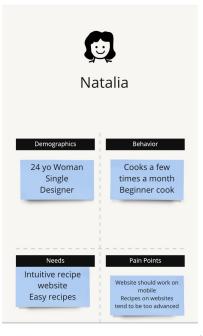
Prototype







User Tests

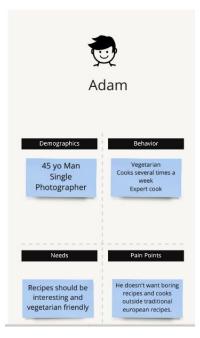




Login

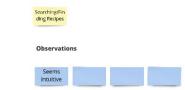
Observations

Easy login

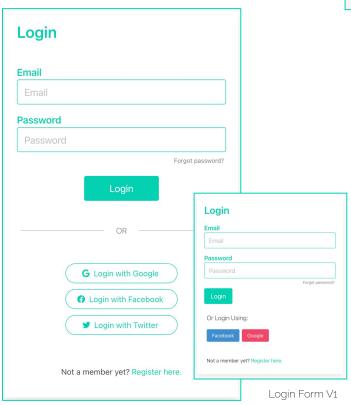








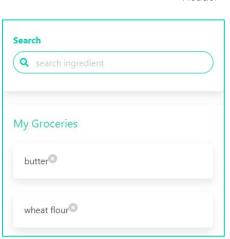
Components



[⊕] Ingreduce	My Ingredients	My Recipes	Log in	Register	

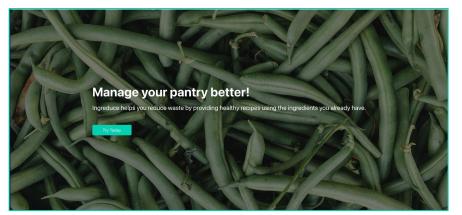
Header

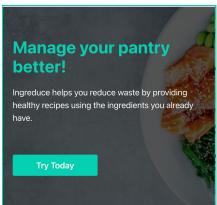
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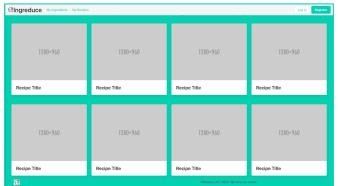
Ingredient Search Bar

Registration Form





Hero Image V1



Hero Image V2

Recipe Overview

MongoDB.





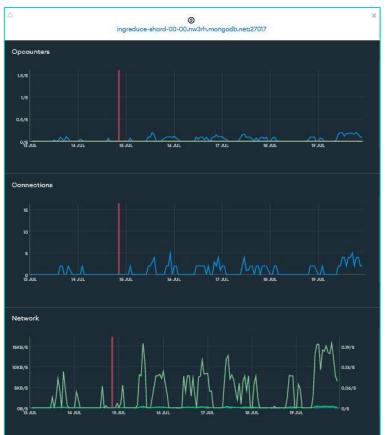


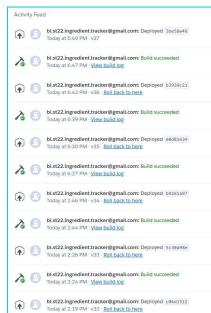


repeatedly encountered difficulties with the Firebase setup

a late switch to MongoDB
 Atlas, Node.js and Express.js
 to run a traditional backend

full functionality locally, started deploying to Heroku







My tryst with Firebase lasted for almost a month and a half

Recipe dataset

Contains the following information for each recipe:

Recipe URL, Servings / Yield,

Recipe Name, Prep/Cook/

Total times.

Description,

Image urls,

Ingredients,

Nutritional information.

Instructions.







Beef Lo Mein

I couldn't find a good to mein recipe on here, so I'm posting mine. I made it this week and my roommate and I agreed that it was possibly the best that we've ever had.



By Rachel Swiger-Imhoff



Share





allrecipes

Ingredients



Original recipe yields 4 servings

- 1 (8 ounce) package spaghetti
- 1 teaspoon dark sesame oil

Directions



Bring a large pot of lightly salted water to a boil. Cook spaghetti in the boiling water until cooked through but firm to the bite, about 12 minutes; drain and transfer to a large bowl. Drizzle sesame oil over the spaghetti; toss to coat. Place a plate atop the

Data Science

Recommender system

Based on topic modelling with the Latent Dirichlet Allocation and cosine similarity.



Pork enchiladas



Cola-Brined Chicken Wings Recipe

Slow Cooker Shredded Beef Sandwiches Recipe

Kay Kay's Pulled Pork Recipe

Grilled Sweet and Sour Chicken Thighs

Grilled Buffalo Chicken Thighs with Blue Cheese Slaw

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Thank you! (Q)

Special Thanks to Christoph, Basan, Soma, Stephanie, Juliana, Zubin, Alba, Mihailo... and all the other TechLabs volunteers!

Celine Zhou, Alpgiray, Elsy Aranda, Aljoscha Beiers, Catarina Louza & Sarita Schenkermayr.

Mentor: Christoph Dansard

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