Shelf Chef
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Team name: The Chefs

Team member names

Conner LeValley: Product Co-Owner / Developer

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Alex Parks: Developer

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Shelf Chef

- An app that recommends recipes based on the ingredients a user provides it. Let's say you're looking to throw together a nice meal and are not sure what you can make with the ingredients you have in your pantry. All you have to do is whip out this app, input the ingredients you have, and our sophisticated algorithm will generate a list of yummy recipes to cook up, no grocery store trip required.

Project Scope

High Level Goals:

- An interface where users can input foods and view recipes that align with the ingredients they have available.
- Database to hold recipes and an api that can pull recipes from third party
- Allow users to post their own recipes (kinda like instagram but for recipes)
- Allow users to like recipes and recommend based on user likes
- Copy and adjust an already created recipe to add to profile

Sprint 1

- Database with recipes inside of it / api to call on
  - As a developer, I want a database to contain an extensive list of recipes so that anyone who uses this can find a suitable recipe.
- Ingredients database to hold searchable ingredients
  - As a developer, I want a database containing the ingredients from all of the recipes so that no matter what ingredient a user inputs, a recipe can be found that contains those ingredients.
- Getting recipes displayed
  - As an end user, I want recipes to be displayed in a clean fashion so that I can easily find a recipe I want to make.
- Search capability for said recipes
  - As an end user, I want to be able to input what ingredients I have into a search bar so that I can see what recipes are potential options to make.

Spikes: exploring clickhouse recipe dataset and the SQL unpackaging required to parse it

Infrastructure Tasks: setting up database itself, setting up SQL table to hold data inside database, setting up react app,

Sprint 2

- Navigation architecture (layout of pages)
  - As an end user, I want a clean layout and navigation structure for this app, so that I can quickly find my way around the recipe generator's features.
- Recipe search UI
  - As an end user, I want to be able to have intuitive search capabilities for what ingredients I have in order to be able to find appropriate recipes.
- How recipes get displayed
  - As an end user, I want the recipes to be displayed in a clear and concise manner so that reading and following the recipe is a simple process.
- Color palette
  - As an end user, I want a pleasant color palette in this app, so that there are no harsh colors, nor are there any hard-to-see areas.
- Logo
  - As a developer, I want an eye-catching logo for my app, as this way I can attract as many users as possible.

Spikes: none

Infrastructure: setting up figma for UI layout

Sprint 3

- Each user has their own profile with avatar pic, username, and password
  - As an end user, I want to be able to customize my own profile, so that I can feel as if I'm an actual user of the app, not just an observer.
- Each user can like a recipe posted
  - As an end user, I want to be able to like recipes that I am a fan of, so that I feel that my opinion is heard.

Spikes: none

Infrastructure: setting up materialUI for avatar / profile / dynamic buttons
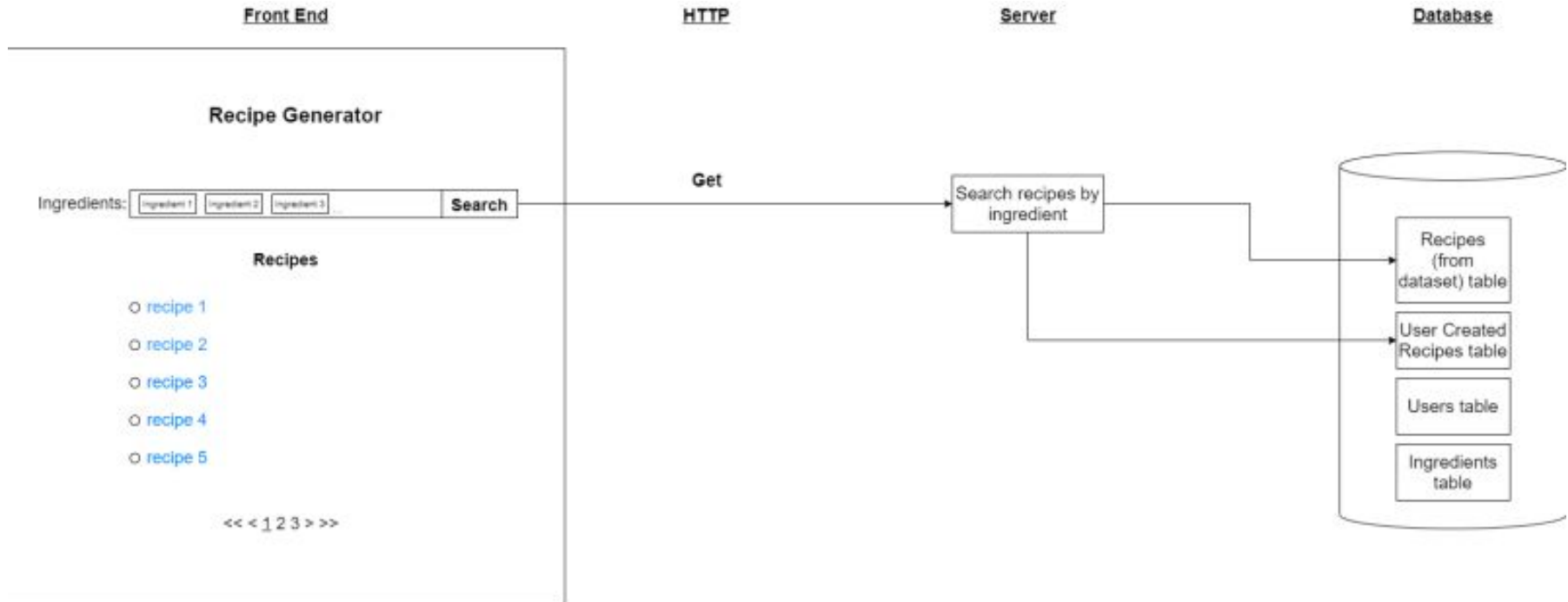
Sprint 4

- Each user can create their own recipe to be displayed on their profile page
  - As an end user, I want to create my own recipes so that I can share them with others.
- User recipes show up in other user's recipe searches
  - As an end user, I want other user's recipes to show up in my searches so that over time, as more users use this app, more potential recipe options become available.
- Each user can duplicate and tweak currently established recipes and add them to their page.
  - As an end user, I want to be able to modify already existing recipes on the app, so that I can personalize recipes to my individual tastes.
- User can view their liked recipes from their profile page
  - As an end user, I want to be able to view the recipes that I've liked, so that I can build a recipe book of food I've enjoyed.

Spikes: none

Infrastructure: previously implemented infrastructure should suffice.

Architecture

Technologies

Languages   - SQL, HTML, Javascript, CSS

Architecture   - NERP Stack (Node JS, Express, React, PostgreSQL)

Dev Environment - VSCode, Swagger / OpenAPI

Additional   - Recipe APIs, Material UI

Challenges/Risks

[Challenge/Risk 1] - Finding recipe API or recipe dataset to pull recipes from

[Challenge/Risk 2] - Figuring out how to work on the same database remotely

[Challenge/Risk 3] - Refining search algorithm to display best recipes for user

Minimum Viable Product (MVP)

Our desired minimum viable product is a simple web interface where users can input what ingredients are in their pantry and get back a list of recipes matching those ingredients.