Recipe Hive

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Description

Recipe Hive is a simple, intuitive platform for storing and curating the recipes that matter to you. Every recipe can be entered and customized through a mobile-first interface that allows users to add ingredients, instructions, and photos.

Features

- Create, store, and edit recipes
- Mobile-first interface that responds to varying screen sizes
- User accounts that provide authentication and authorization through Spring Security
- Search for recipes by title, ingredient, or any text

Planning - User Stories

- New users can create accounts that allow them to store and retrieve recipes that are unique to them
  - If users forget their password, there is a secure password change function
- Users can enter recipes that include formatted lists of ingredients and steps, and they can include photos
- The cookbook view provides a condensed view of all recipes, and clicking on a recipe expands it to show full detail
  - Expanded recipes can be edited or deleted
- Searching returns any recipes with matching text, whether that be an ingredient, a title, or part of the instructions

Planning - Database

- Four tables:
    - Recipe
    - User
    - Roles
    - User-Roles

- Functionality:
    - The Recipe table contains one row for each recipe and a column for each field: title, description, ingredients, steps, time, recipe username, and image URL.
    - The User table contains one row for each user and a column for each field such as username, password, email and reset token.
    - The Roles table has one row for the "user" role. An "admin" or other role would extend the rows of this table.
    - The User-Roles table reflects the many-to-many relationship between users and roles.

Technology Stack

- JavaScript, JSX, Java
- ReactJS
- Spring Boot
- MySQL
- Axios REST API
- JWT Authentication

Demo

What I Learned

- Designed an app that conditionally renders elements using ReactJS
- Used Axios to send requests to a REST API Controller written in Spring Boot
- Designed APIs in Spring Boot to respond to Axios
- Implemented JWT and Spring Security user authentication to create user accounts and access protected routes
- Used JavaMail to help users reset their passwords

What's Next

- Implement a feature to pull a new recipe from an external API that involves an ingredient of your choice
- Deploy online utilizing an online repository instead of local machines
- Refactor code organization to be more easily navigable and more in line with atomic design principles