DESIGN SPECIFICATION

for

Recipe Buddy

Version 1.0

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CERTIFIED DATA BOYS

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Contents

1 Introduction

1.1 Purpose

Recipe Buddy is a modern recipe sharing website intended to facilitate connections between our users with food and culinary arts. It creates a personalized experience for the user, showcases popular and trending recipes, and creates a community through various recipe sharing services.

1.2 Intended Audience and Reading Suggestions

This document is aimed at a wide audience:

- Recipe Buddy developers should be able to go over this document to understand how the general layout and design of the system and user interface. Developers should have the ability to use this in conjunction with the system's documentation to gain a comprehensive understanding of the system's underlying features and overall design. Developers should also be able to use this document to understand who to design this system for and why the system is designed the way it is. That way, with each new proposed update to Recipe Buddy, developers can assess if it would align with the system's design philosphy.

- Recipe Buddy designers and clients should be able to go over this document to understand how the system is designed. With any proposed updates or revisions to the system, designers should have the ability to refer to this document and ensure such changes align with Recipe Buddy's design philosophy.

1.3 Project Scope

Recipe Buddy is a tool that allows registered users to organize their own recipies, view recipies of other registered users, and keep a catalog of food, kitchenware and applicances that they own. Recipe Buddy can also track dietary restrictions to offer a better user experince. Recipe Buddy organizes recipies by:

- Allowing users to create a recipe.

- Allowing users to modify their recipies.

- Allowing users to delete their recipies.

- Allowing users to set the visibility of their recipies (i.e. public or private)

- Allowing users to share private recipies with specific users.

- Allowing users to offer suggestions to other's recipies.

Recipe Buddy keeps a catalog of food and kitchenware items by:

- Allowing for a detailed list of food items available in a users panty.

- Allowing for a user to add all items from a particular recipe into their panty.

- Allowing for users to keep a detailed list of kitchenware that they own.

- Allowing users to edit or modify these lists at any time from the user menu. Recipe Buddy tracks dietary restrictions by:

- Allowing users to keep a detailed list of specific ingredients marked as allergens.

- Allowing users to keep a detailed list of restricted categories. (i.e. dairy for lactose intolerant or bread for gluten-free).

2 General Design

2.1 Mockups

The following images are a tentative representations of the user interface, which is planned to be reflected in the final product:
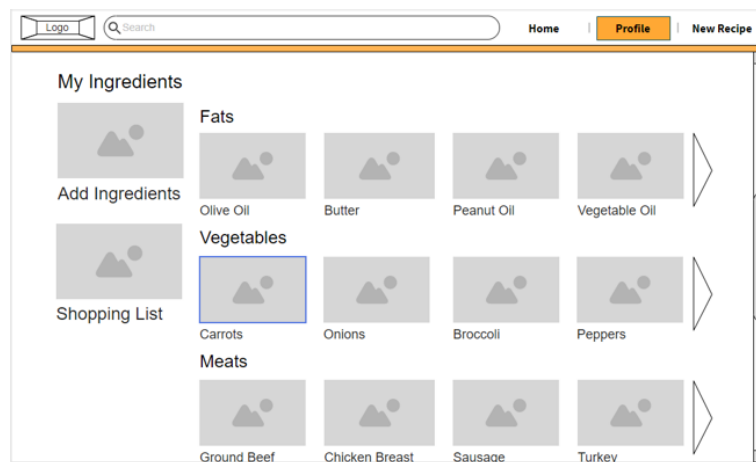

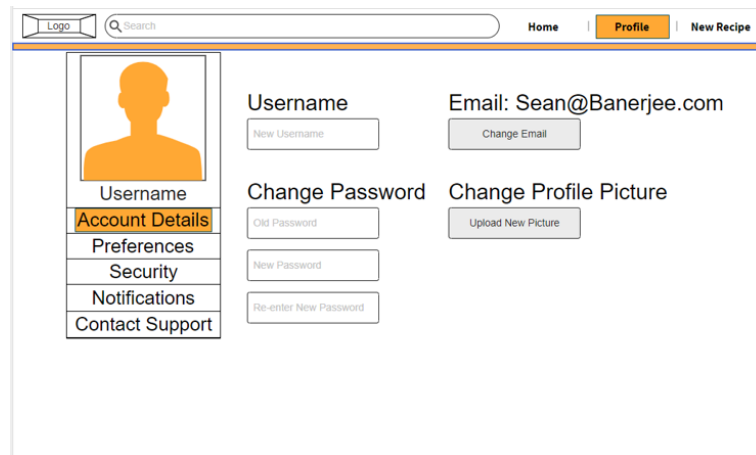Figure 2.1: design prototype for pantry and ingredients interface

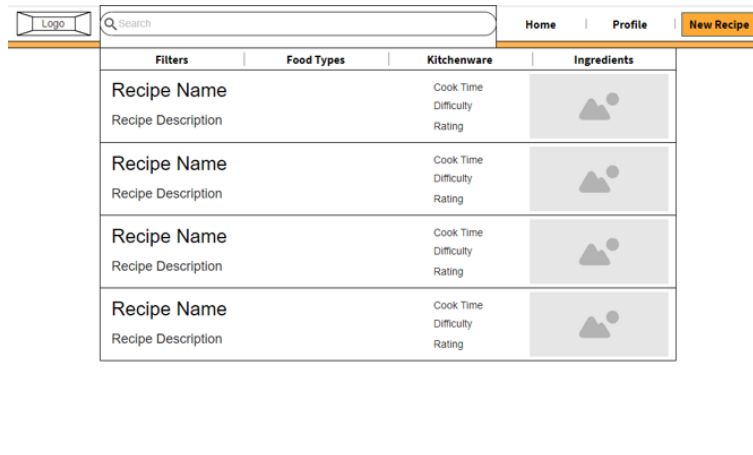Figure 2.2: design prototype for settings and preferences interface

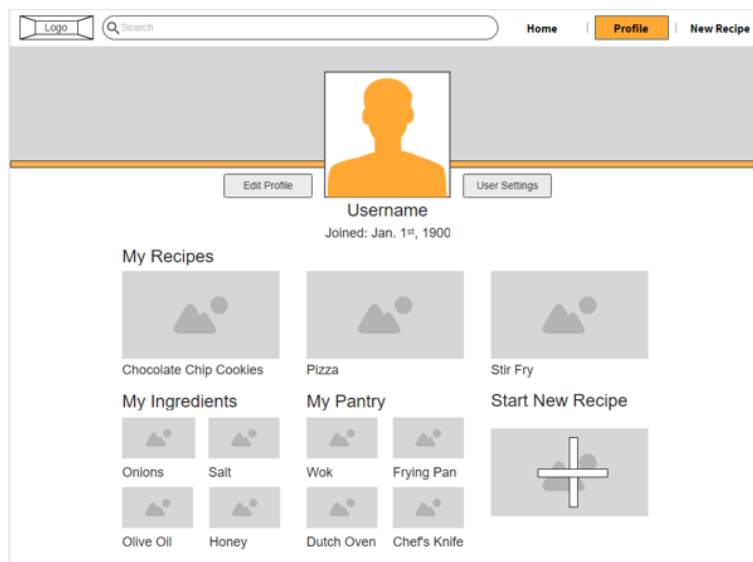Figure 2.3: design prototype for search feature interface

Figure 2.4: design prototype for user profile interface

2.2 User Interface

The following images are a representation of the finalized interface of Recipe Buddy:

2.3 Sequential Diagrams

The following images are a representation of the sequential flow of finalized Recipe Buddy systems:

Figure 2.5: design prototype for login and account creation interface

Figure 2.6: design prototype for recipe creation interface

2.4 Database Diagrams

The following images are a tentative representations of the database structure, which is planned to be reflected in the final product of Recipe Buddy:
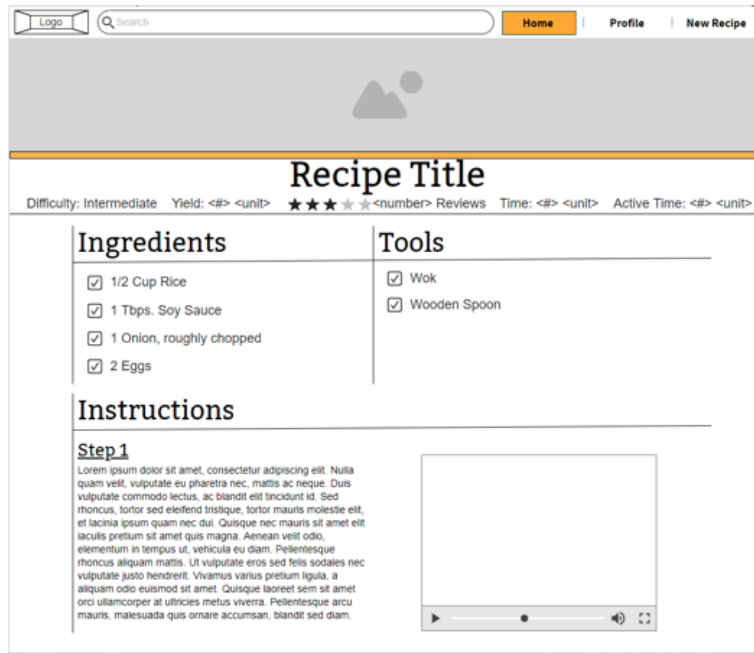
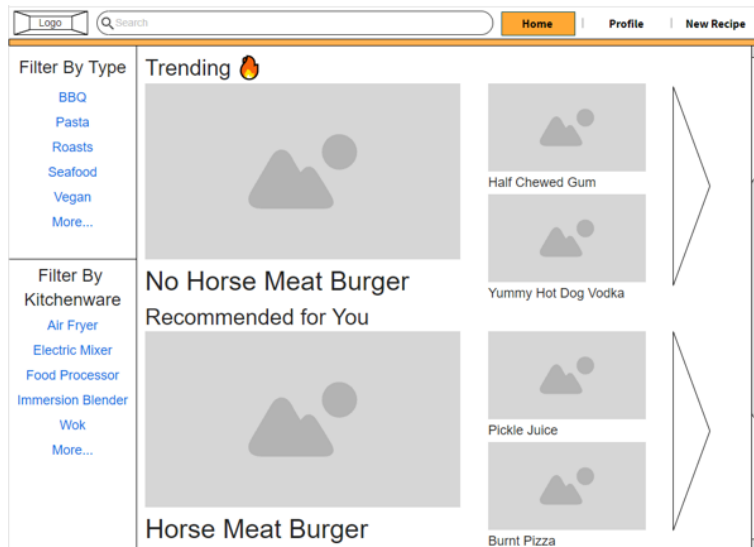Figure 2.7: design prototype for recipe page interface

Figure 2.8: design prototype for home page interface

2.5 Class Diagrams

The following images are a tentative representations of the class structures, which is planned to be reflected in the final product of recipe buddy:
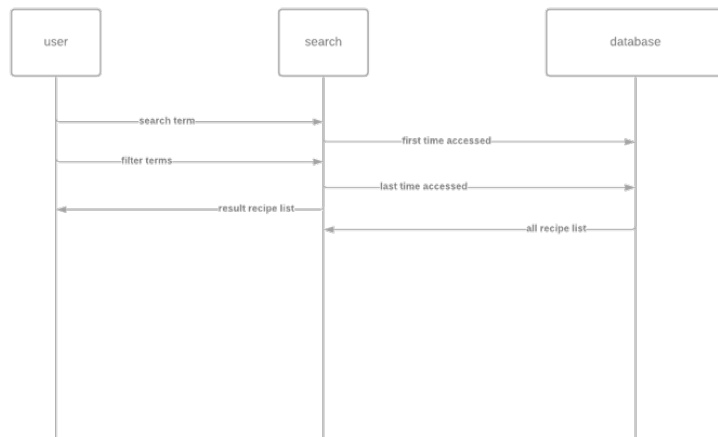
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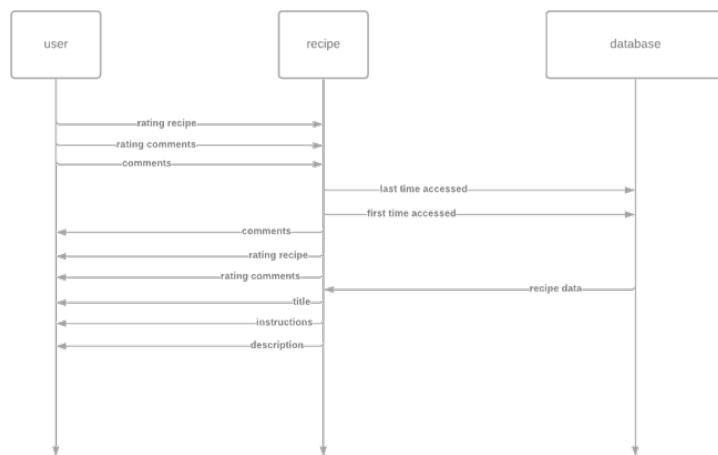Figure 2.9: sequential diagram search implementation

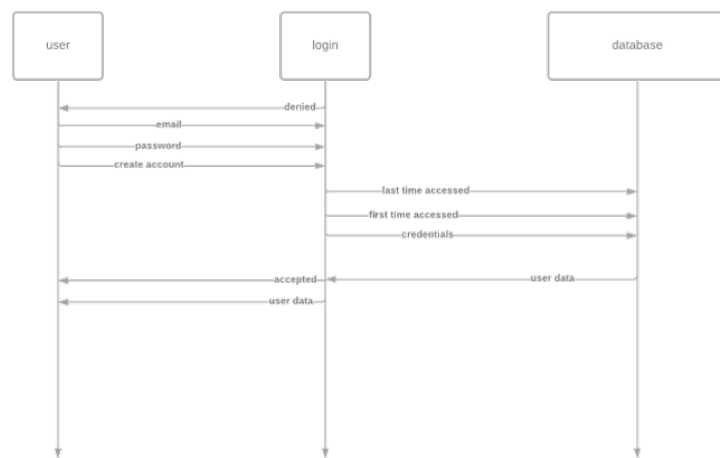Figure 2.10: sequential diagram for display recipe implementation

Figure 2.11: sequential diagram for account creation and registration implementation

Pantry page

User   **Webpage**   **Database**

addPantryItem

Sends a request to
the RESTful API

addPantryRequest

Processes API request

response

Processes response

response

editItem

Sends a request to
the RESTful API

editItemRequest

Processes API request

response

Processes response

response

loadOtherPage

Includes shopping cart,
user profile, search page,
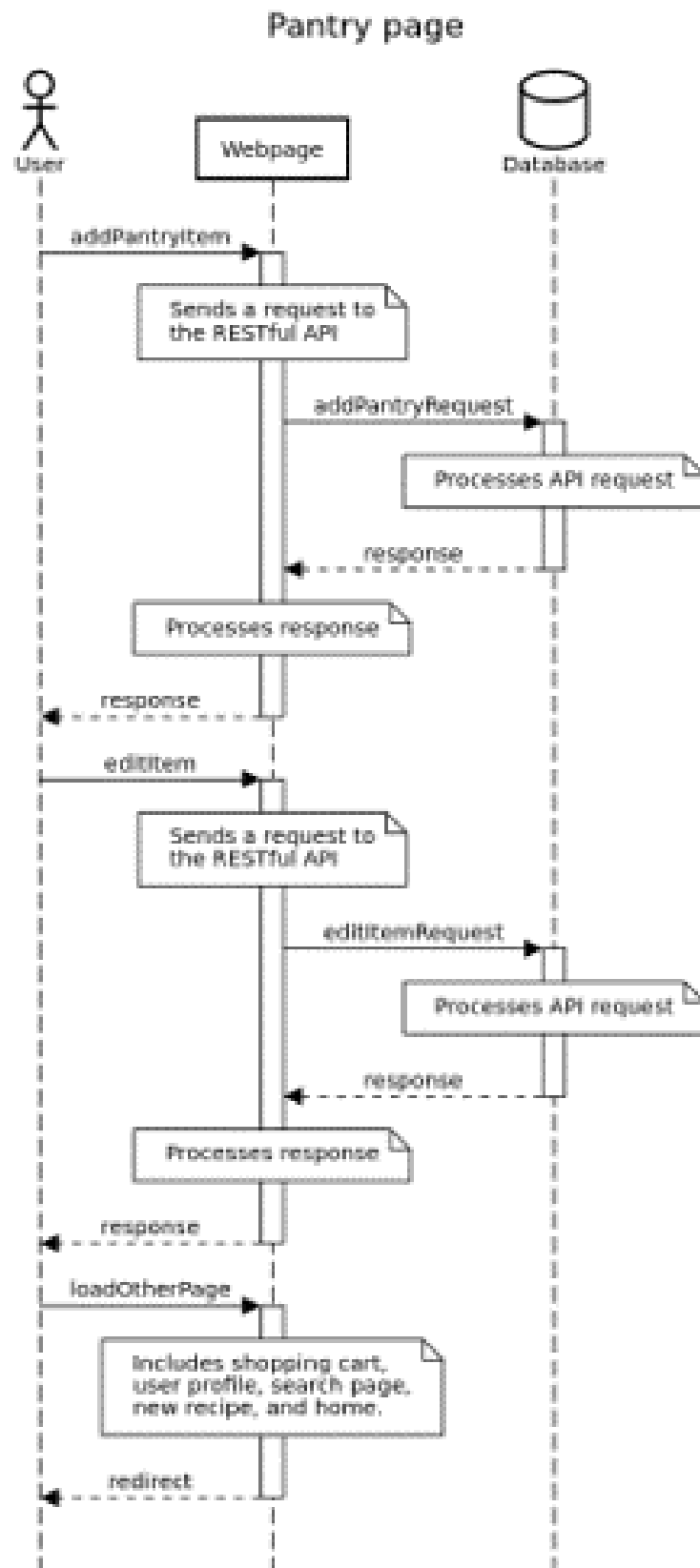new recipe, and home.

redirect

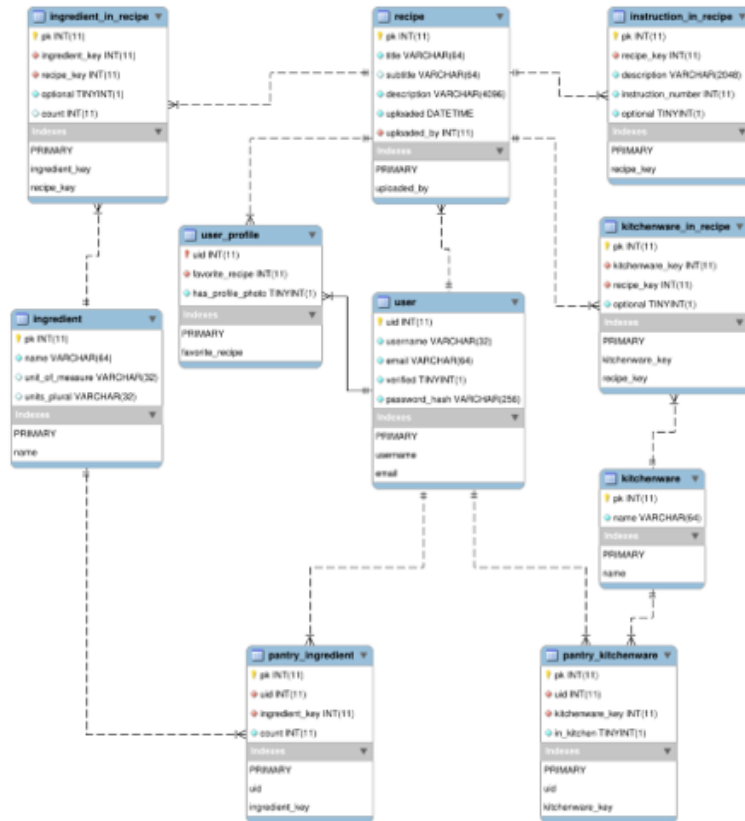Figure 2.12: sequential diagram for profile implementation

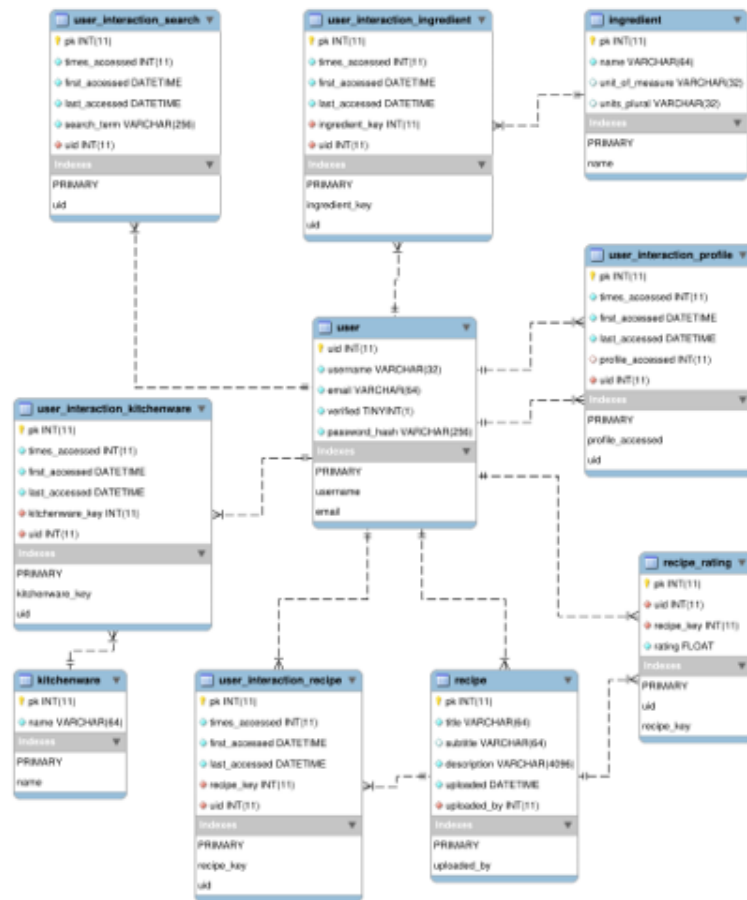Figure 2.13: primary database diagram implementation

Figure 2.14: database interaction diagram implementation

Figure 2.15: primary class diagram implementation

Figure 2.16: module class diagram implementation

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