

---

# **Software Requirements Specification**

**for**  
**RecipeBuddy**

**Version 1.0 approved**

**Prepared by Ava Megyeri, Maddie Lopol, Riley Outlaw, Melvin  
AUVRAY, Flower Letourneau**

**Clarkson University**

**5/5/2023**

# Table of Contents

<b>1. Introduction</b>	<b>4</b>
1.1 Purpose	4
1.2 Document Conventions	4
1.3 Intended Audience and Reading Suggestions	4
1.4 Project Scope	4
1.5 References	4
<b>2. Overall Description</b>	<b>4</b>
2.1 Product Perspective	4
2.2 Product Features	5
2.3 User Classes and Characteristics	5
2.4 Operating Environment	5
2.5 Design and Implementation Constraints	5
2.6 User Documentation	5
2.7 Assumptions and Dependencies	5
<b>3. System Features</b>	<b>7</b>
3.1 System Feature 1	7
3.2 System Feature 2	7
3.3 System Feature 3	7
3.4 System Feature 4	7
3.5 System Feature 5	7
3.6 System Feature 6	7
3.7 System Feature 7	7
3.8 System Feature 8	7
3.9 System Feature 9	7
3.10 System Feature 10	7
3.11 System Feature 11	7
<b>4. External Interface Requirements</b>	<b>8</b>
4.1 User Interfaces	8
4.2 Hardware Interfaces	8
4.3 Software Interfaces	8
4.4 Communications Interfaces	8
<b>5. Other Nonfunctional Requirements</b>	<b>9</b>
5.1 Performance Requirements	9
5.2 Safety Requirements	9
5.3 Security Requirements	9
5.4 Software Quality Attributes	9
5.5 Business Rules	9
<b>6. Key Milestones</b>	<b>10</b>

<b>7. Key Resource Requirements</b>	<b>11</b>
<b>8. Other Requirements</b>	<b>12</b>
<b>9. Requirement Change Management</b>	<b>13</b>
<b>10. Restrictions, Limitations, and Constraints</b>	<b>14</b>

## **Revision History**

Name	Date	Reason For Changes	Version

# 1. Introduction

## Purpose

This document details the software requirements specification for the Recipe Buddy v1.0.0 project. It will later be used as a website to store recipes. This document follows the IEEE standard for software requirements specification documents.

Recipe Buddy is highly practical for anyone who cooks. Users will be able to create, edit, delete and make recipes and store everything on the website. Recipe buddy can be viewed from almost any platform (Macintosh and Windows) as it is a website open to numerous platforms.

The purpose of this project is to create an efficient way for people to store and track their recipes.

## Document Conventions

Recipe Buddy was created prior to this document, but not all of the requirements are satisfied. There is future work to be done to finish the requirements. It is important to update this document as we fix the requirements and add more features.

## Intended Audience and Reading Suggestions

This Software Requirements document is intended for:

- Developers who can review the project's capabilities and understand where the software is lacking to help improve or add more functionality to the application.
- Project testers can use this document to try and find any bugs by looking to see how the application was created.
- End users can use this document if they wish to read about what this project can do.

## Project Scope

Recipe Buddy is a website which can store and track recipes. It provides users with a graphical interface (GUI) that provides users with a way to handle recipes, ingredients, and utensils.

Recipe Buddy GUI allows users to

- Signup for an account
- Login to their account
- Edit their profile
- Create recipes
- Viewing recipes for a users recipes or other users recipes
- Edit recipes
- Delete recipes
- Search for recipes
- Rating a recipe
- Have a pantry page to store their ingredients, utensils, allergies, and sets conversions for recipes

The screenshot displays the RecipeBuddy application's user interface. At the top, there is a navigation bar with a logo, a search bar, and buttons for 'Search', 'Create', 'Pantry', 'Profile', and 'Logout'. Below the navigation bar, there are three sections: 'Latest recipes', 'Recommended', and 'Most rated'. Each section contains five recipe cards, each with a thumbnail image, the recipe name, a brief description, and a rating of five stars.

- Latest recipes:**
  - Caramel Popcorn: movie theater popcorn but with caramel
  - Buttered Popcorn: movie theater popcorn at home
  - Garlic Butter Chicken: Some good chicken coated in garlic and butter
  - Buffalo Chicken Wrap: the best type of wrap
  - Sausage Egg Sandwich: A great sandwich for your morning
- Recommended:**
  - Garlic Butter Chicken: Some good chicken coated in garlic and butter
  - Chocolate Chip Cookies: Best chocolate chip cookies ever!
  - Chicken Bacon Ranch Salad: One of the best salads
  - Garlic Bread Grilled Cheese: The best garlic bread cheese ever
  - Loaded Mashed Potatoes: Creamy potato perfect base for any meal
- Most rated:**
  - Chocolate Chip Cookies: Best chocolate chip cookies ever!
  - French crépes: French crépes are good for weekend breakfasts
  - Cinnamon Rolls: Delicious, fluffy and easy cinnamon rolls!
  - Quesadillas: A recipe I make all the time because it's super simple
  - Buffalo Chicken Wings: buffalo chicken sinfully crispy

This is how Recipe Buddy looks to a user who is logged in. If a user was not logged in they would not be able to delete or edit recipes, just view other user's recipes.

## References

- The official website for the project contains an overview of the project, the design document, the software test plan, weekly reports, and about us for the team, and links to Recipe Buddy and Backend documentation: <https://website.cs350.melvinauvray.com>
- The project is up on github at <https://github.com/melvinauvrayCU/CS350>. The repository is public and can therefore be accessed by anyone.

## 2. Overall Description

### Product Perspective

Recipe Buddy is a free to use website where users are able to store and create recipes. While there are many recipe websites out there, Recipe Buddy provides different features than most, such as a pantry page which users can include any ingredients or utensils they have in their home. With Recipe Buddy a user does not have to sign up to use the site and can still view recipes from other users if they don't want to make an account.

### Product Features

Recipe Buddy provides:

- Creating and storing those recipes.
- Viewing recipes that a user created or another user created.
- Editing recipes that a user created.
- Deleting recipes that a user created.
- Rating a recipe that a user created.
- Searching for recipes that any user has created.
- Pantry page which stores ingredients, utensils, conversions and allergies for a user.

Most of if not all features are accessible with the use of on screen buttons and keyboard inputs

### User Classes and Characteristics

Recipe Buddy will mainly be used by general users:

- People of any age who want to look for recipes that other users have created or make their own recipes to have for anytime they want to cook them.
- Users who want to look for recipes with a certain rating can look up a certain star number (1-5) to find a recipe of that desired rating.

### Operating Environment

Recipe Buddy is a website which is able to be run on any desktop operating system. It does not have mobile support

It has been tested on:

- Microsoft Windows
- Mac OS X
- Linux

### Design and Implementation Constraints

Recipe Buddy is written with different frameworks for front and back end. Front end uses Vue.js which is written in java script, html, and css. The backend uses Laravel as the framework which is

written in PHP. If another developer wants to work on this project, they must learn these programming languages.

## **User Documentation**

Backend documentation is on the team website: <https://www.website.cs350.melvinauvray.com> under backend documentation.

## **Assumptions and Dependencies**

Working version of vue.js version 2.7, laravel 10

## 3. System Features

Recipe Buddy consists of a number of features which are the site's basic functions. This section goes into detail about the functional requirements of the application. System features are described in detail to help the future modifications and testing of the system.

### System Feature 1- Signup

Users are able to sign up for a Recipe Buddy account by filling out a username, their first name, last name, a bio, their email, a password, and answering three security questions.

#### 3.1.1 Description and Priority

Signing up for an account allows users to gain access to creating their own recipes and being able to edit or delete those recipes whenever they choose. Signing up is high priority as you are receiving more benefits from the site.

#### 3.1.2 Stimulus/Response Sequences

On the header of the page there is an option to click the signup button.

Screenshot of the signup page for Recipe Buddy

This GUI consists of the following parts:

- A username field
- a first name field
- a last name field
- a field for the user's bio
- an email field
- a password field
- a confirm password field
- fields for both security questions and answers.

### 3.1.3 Functional Requirements

R-1.1: Home page- the user must be able to access the home page in order to access the sign up page. If the user is unable to access the homepage, then they will not be able to access any other parts of the site

R-1.2: User model- the user model within the software must have all fields present in order to properly declare a new user. If a user leaves a field blank when signing up, then the site should give the user an error message telling them to fill out all the fields.

## System Feature 2- Login

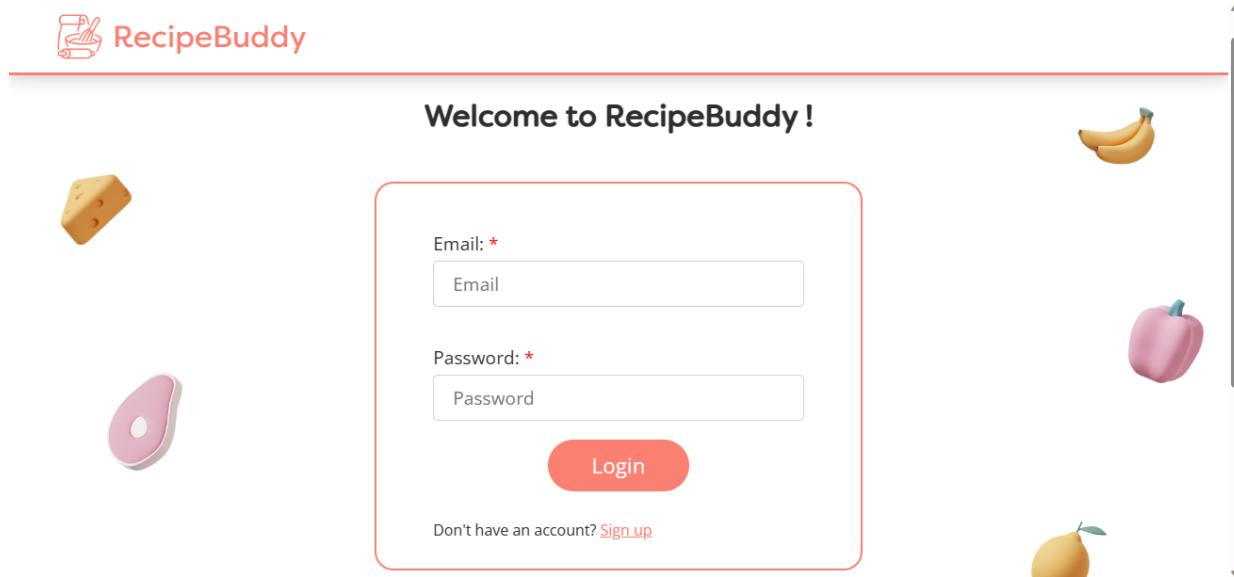
Users are able to sign in to their already existing account when they provide their email address and password.

### 3.2.1 Description and Priority

This feature allows users to login to their account so they are able to view their own recipes and interact with the site more freely as they are able to create, edit, and delete recipes. This is of high priority as the user must be able to login to use these features.

### 3.2.2 Stimulus/Response Sequences

On the header of the home page there is a button that users can click to access the login page



This GUI consists of:

- A field for the user to enter their email address
- a field for the user to enter their password
- a login button for when the user is ready to login
- a sign up button option if the user does not already have an account.

### 3.2.3 Functional Requirements

R-2.1: Home Page- the user must be able to access the home page in order to access the login page. If the user is unable to access the homepage, then they will not be able to access any other parts of the site

R-2.2: Signup Page- the user needs to be able to sign up in order for their account to exist. If the user attempts to login to an account that does not exist then the site should give an error message saying that the user does not exist.

## System Feature 3- Password Reset

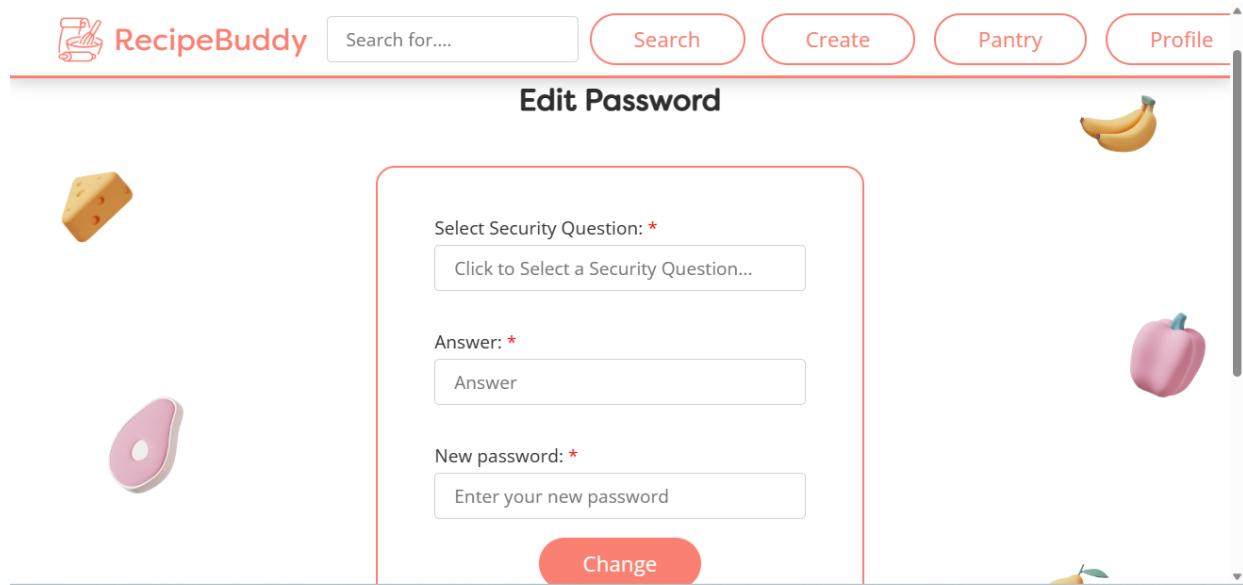
The password reset function should allow the user to reset their password when they provide the correct answer to one of their security questions

### 3.3.1 Description and Priority

The user should be able to reset their password from the edit user page when they give the correct answer to one of their security questions. This is of medium priority as it is more important for the user to be able to edit and create recipes than it is for them to be able to change their password.

### 3.3.2 Stimulus/Response Sequences

This option will be available at the bottom of the user's profile page right next to the edit user button.



This GUI consists of:

- a field to select which security question the user would like to answer
- a field for the user to provide their answer
- a field for the user to input their new password
- a button for the user to confirm their inputs.

### 3.3.3 Functional Requirements

R-3.1: Signup Page- The user needs to be able to sign up in order to create an account. Without an account the user would have no password to change. The user is not able to access this page unless they are signed up and logged in.

R-3.2: Profile Page- The user needs to be able to access their profile page in order to change their password because that is where they are able to access the option to change their password. Without the profile page the user would have no way to access the change password page.

## System Feature 4- Search

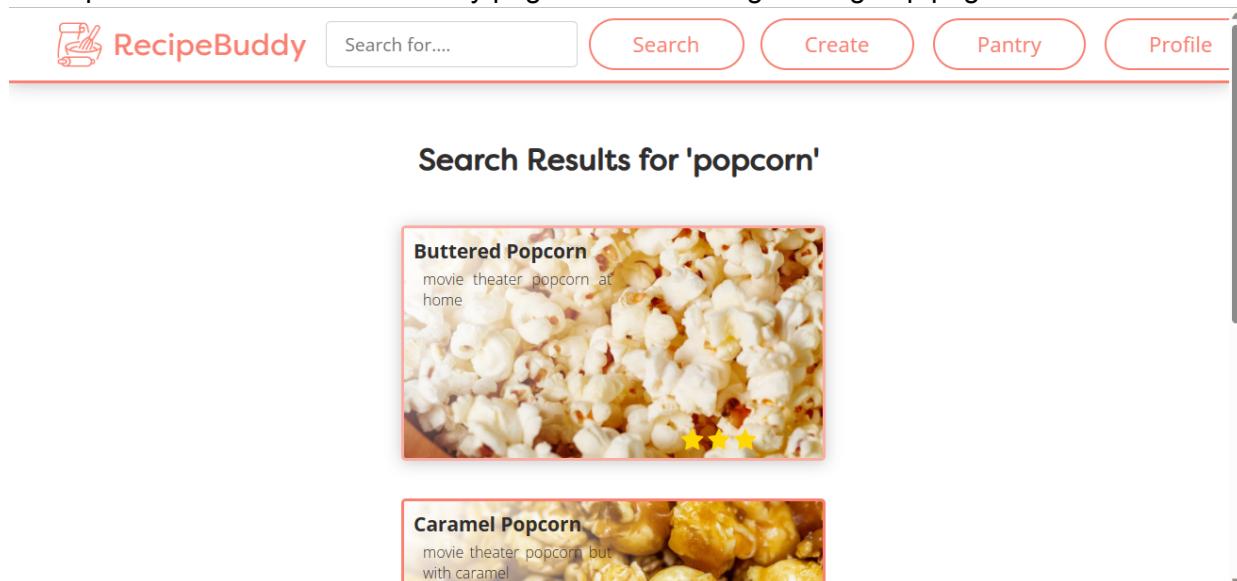
The search feature allows any user to search through the available recipes using the search bar on the home page.

### 3.4.1 Description and Priority

This feature allows the user to find the recipe they are looking for either by name or rating. This is of high medium priority as it is slightly more important for the users to be able to create and edit both users and recipes, but the search functionality is key to a user being able to find what they are looking for on the site.

### 3.4.2 Stimulus/Response Sequences

This option will be available from any page besides the login or sign up page.



The GUI consists of:

- A search bar at the top of each page to search for recipes
- a results page that shows each recipe related to the search from top to bottom.

### 3.4.3 Functional Requirements

R-4.1: Create Recipe- In order to search through the recipes there need to be recipes to search through. This is only possible if the create recipes page is functioning. If this page is not functioning then the search results page will never have any results on it.

R-4.2: Signup page- In order to be able to create recipes, you need to be able to sign in as a user. This would not be possible without the sign up page so this must be functioning before the search results page or the search functionality can be functional.

## System Feature 5- Create Recipe

The user should be able to create a new recipe and have it saved in their profile if they are logged into their account.

### 3.5.1 Description and Priority

This feature allows a user to create a recipe where the user gives the name of the recipe, how many it cooks for and an image of the recipe. They also need to add steps to go along with to cook the recipe and for each of these steps they add a description of the step, a cook time, a prep time, ingredients for the step, and utensils for the step. Once the recipe steps are given the user gives the recipe a rating from 1 to 5 stars and the recipe is completed. This is a high priority item because without the ability to create a recipe there will be no recipes to view or edit which is the main point of the site.

### 3.5.2 Stimulus/Response Sequences

This option will be available in the header to any user that is logged in.

**Create a new recipe !**

**Global informations about your recipe**

Recipe Title: \*

Number of people: \*

Recipe picture: \*

Drag and drop an image here, or click to select one

**Give us the steps to complete your recipe**

Step 1

Step description: \*

Cook time: \*

Preparation time: \*

Ingredients:

Utensils:

Add a new step

Initial rating: \*

Create my recipe

This GUI consists of:

- A field for the recipe title
- a field for the number of people the recipe cooks for
- a field for the recipe picture, a field for the recipe description
- A recipe step
  - A description for the recipe step
  - a cook time for the step
  - a prep time for the step
  - a list of ingredients used in the step
  - a list of utensils used in the step
  - a button to create a new step
- A field to give your initial rating of the recipe

### 3.5.3 Functional Requirements

R-5.1: Signup Page: The user must be able to sign in to their account in order to create a recipe. If the user is not signed in then they will not be able to access the create recipe page

## System Feature 6- Delete Recipe

The delete recipe functionality allows the user how created a recipe to delete that same recipe from the website

### 3.6.1 Description and Priority

For each recipe that a user creates there should be an option for that user to delete that recipe from the home page with a confirmation pop up making sure they want to delete the recipe. This is of medium importance because while it is important to the user's experience it is not a key component of the functionality of other parts of the website.

### 3.6.2 Stimulus/Response Sequences

The user will click on the delete button which is present on each recipe they create. If they do want to delete the recipe then they should press confirm in the pop up that shows up.

### 3.6.3 Functional Requirements

R-6.1: Signup- This page is necessary because only users who are logged in can delete a recipe and you cannot log in if you are not signed up. If the user is not logged in then the option to delete the recipe does not appear.

R-6.2: Create Recipe- in order to have recipes to delete the user needs to be able to create a recipe. If the user cannot create a recipe then, they will not be able to delete a recipe because there will be no recipes

R-6.3: Home page- in order to view all the recipes and have the delete button available, the user needs to be able to view the home page. If the user cannot view the home page then they will have no way of deleting a recipe.

## System Feature 7- Edit Recipe

The user should be able to edit any of the recipes they have created

### 3.7.1 Description and Priority

The user should have the ability edit any recipe that they create

### 3.7.2 Stimulus/Response Sequences

The user should be able to click a button on the recipe from the home page that allows them to edit every field of a recipe and even add steps. This should only be possible when the user is logged in and only to their own recipes. This is a high priority feature because the user should be able to change elements of the recipe they make in case they mess something up that they do not realize until they are viewing the recipe.

### 3.7.3 Functional Requirements

R-7.1: Signup- This page is necessary because only users who are logged in can edit a recipe and you cannot log in if you are not signed up. If the user is not logged in then the option to edit the recipe does not appear.

R-7.2: Create Recipe- in order to have recipes to edit the user needs to be able to create a recipe. If the user cannot create a recipe then, they will not be able to edit a recipe because there will be no recipes

R-7.3: Home page- in order to view all the recipes and have the edit button available, the user needs to be able to view the home page. If the user cannot view the home page then they will have no way of editing a recipe.

## System Feature 8- Rate Recipe

Each user should be able to rate a recipe when they create a recipe

### 3.8.1 Description and Priority

Each user should be able to create a recipe when they create a recipe. These recipes should be rated from 1 to 5. This is a medium priority because the user should be able to search by each recipe's rating, but it has no other impact on the website.

### 3.8.2 Stimulus/Response Sequences

The option to rate a recipe is available at the end of the create recipe page. The user must fill in this field with a number from 1 to 5 before they can create a recipe. Once the recipe is created, the rating will be visible on each recipe on the home page.

### 3.8.3 Functional Requirements

R-8.1: Signup- This page is necessary because only users who are logged in can rate a recipe and you cannot log in if you are not signed up. If the user is not logged in then the option to rate the recipe does not appear.

R-8.2: Create Recipe- in order to have recipes to rate the user needs to be able to create a recipe. If the user cannot create a recipe then, they will not be able to rate a recipe because there will be no create recipe page.

R-8.3: Home page- in order to view all the recipes and have the recipe rating available, the user needs to be able to view the home page. If the user cannot view the home page then they will have no way of viewing a recipe rating.

## System Feature 9- Edit User

The user should be able to edit their own profile details

### 3.9.1 Description and Priority

The user should be able to edit the details in their profile if they get something wrong while signing up. This does not include their security questions or answers as those have to stay secure. This is a medium priority because this functionality is not necessary for anything else in the site, but it is important for users be able to edit their personal details.

### 3.9.2 Stimulus/Response Sequences

The user will have the option to edit their profile by a button at the bottom of the profile page. They will then be given the ability to change any aspect of their profile that they can see while viewing their profile

The figure consists of three vertically stacked screenshots of a web application interface. The top screenshot shows a user profile for 'Riley Outlaw' with a placeholder profile picture. Below the picture are the names 'Riley Outlaw', the handle '@outlawr', and the email 'routlaw@mail.com'. A 'Bio:' section contains the text 'I am riley and I like to cook'. Below this are two buttons: 'Edit Profile' and 'Change password'. The middle screenshot shows the 'Edit Profile' form. It has four input fields: 'First Name:' with 'Riley' entered, 'Last Name:' with 'Outlaw' entered, 'Username:' with 'outlawr' entered, and a 'Bio:' field with 'I am riley and I like to cook' entered. Each of these fields has a red asterisk indicating it is required. The bottom screenshot shows the same profile page as the top one, but now with the changes reflected: the bio has been updated to 'I am riley and I like to cook'.

### 3.9.3 Functional Requirements

R-9.1: Signup Page- The user needs to be able to sign up and create an account. Otherwise, the user will not have a profile to edit.

## System Feature 10- Change Password

The user should be able to edit their password if they give the correct security answer

### 3.10.1 Description and Priority

A user should be able to change their password if they input the correct security answer to the given security question. Each user has three security questions that they must choose from when prompted. If their answer to that question does not match the answer given when they sign up then they should not be allowed to change their password. This is a medium priority because it does not affect other aspects of the website, but the security of this feature is very important.

### 3.10.2 Stimulus/Response Sequences

The user will be able to access the change password page from the profile page. They then will be prompted for a security question, security answer, and a new password as such

### 3.10.3 Functional Requirements

R-10.1: Signup Page- The user needs to be signed in in order for the user to exist. If the user does not exist then there is no password to change, so the signup page is necessary for the change password page to work.

## System Feature 11- Pantry

Each user should have a pantry in order to store and sort all of their ingredients and utensils

### 3.11.1 Description and Priority

Each user should be given a pantry that stores all of their ingredients and utensils. The ingredients and utensils should all be put into their respective categories inside of the pantry. Inside of the pantry should also be the conversions both for ingredient units and for the

number of people in a recipe. There is also an allergens section to give the user the ability to filter recipes by what allergens they have in order to keep the user safe. This is a high priority feature because it is integral to the user's experience as it will allow them to manage their ingredients much more easily and will augment their overall experience.

### 3.11.2 Stimulus/Response Sequences

The pantry button will stay in the header once the user is logged in. From there all elements of the pantry are labeled.

The screenshot shows the RecipeBuddy application's Pantry section. At the top, there is a header with a logo, a search bar, and several navigation buttons: Search, Create, Pantry (which is highlighted in red), Profile, and Logout. Below the header are four main sections:

- Ingredient Categories:** Contains a text input field for "New Ingredient Category Name.." and a red "Add Category" button. There is also a small icon of an apple.
- Utensil Categories:** Contains a text input field for "New Utensil Category Name.." and a red "Add Category" button. There is also a small icon of a spoon.
- Conversions:** Contains three dropdown menus and three corresponding "Save" buttons: "Save Number..", "Save Weight Unit..", and "Save Volume Unit..". There is also a small icon of a scale.
- Allergies:** Contains a text input field for "New Allergen.." and a red "Add Allergen" button. It also includes a search bar for "Search Allergen.." and a small icon of an apple.

The footer is orange and contains the text: © RecipeBuddy - 2023, Team LLMIAO, Ava Meyer, Flower Letourneau, Madeline Loppi, Melvin Auxray, Riley Outlaw.

### 3.11.3 Functional Requirements

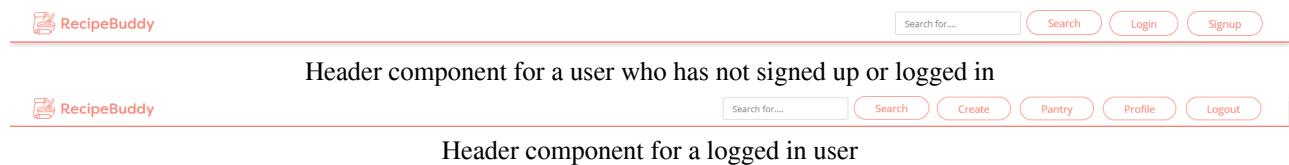
R-11.1: Signup Page- Each pantry is specific to each user so the user must be able to sign in in order to access this page.

## 4. External Interface Requirements

### User Interfaces

All pages besides the login and sign up page should have the header component available to the user. This will make for ease of access to the rest of the site. All forms should have a standard formatting to abide by. The view and edit recipe page should look similar to the create recipe page in terms of where the different elements are located. A user interface is needed for the following components:

- Sign up
- Login
- Edit recipe
- Create recipe
- View recipe
- Edit user
- View user (profile page)
- Change password
- Search results
- Pantry



### Hardware Interfaces

The pictures imported into the site must be in a jpg. All other data in the site is input as a string by the user. These inputs are typically kept as strings, but may be changed if the field is considered numeric and arithmetic needs to be done on it.

### Software Interfaces

For this project we attached Vue.js in the frontend to a laravel backend connected to a mysql database. In order to connect the data between the frontend and the backend we used axios in the frontend files to make api calls. The methods which call from the api were all made asynchronously which means that the frontend needs to wait for the data from the backend. Recipe Buddy runs on Windows, Mac, and Linux and has been tested on all three.

## Communications Interfaces

This website should be available using any web browser. There are some images, but most of the data is text so urls are used for the images. Http forms were used to collect data from the user, but the forms were formatted using Vue.js. Despite the fact that an email is stored for each user, it is only stored as a string and has no direct communication functionality.

## 5. Other Nonfunctional Requirements

### Performance Requirements

Some performance requirements include response time, concurrent users, and real-time updates.

For response time, the website should be able to load quickly to ensure that users do not become frustrated or lose interest with the website. To help users with this, RecipeBuddy has implemented loading icons so users can see the website is trying to load. This includes a loading bar at the top of the page to show the progress of the loading page and a spinning circle icon to indicate the page is loading.

For concurrent users, the website should be able to handle multiple users concurrently without degrading performance. This is important to implement since the website should be able to handle multiple users simultaneously. The website should be able to handle this without slowing down or crashing.

For real-time updates, users should be able to quickly update the website without much delay. This relates to the response time performance requirement, but when users interact with parts of the website, it should be able to update quickly.

### Safety Requirements

This should include safety information and warnings with each recipe. Users should be aware of the allergens that are in certain recipes and avoid those if they are allergic. That is why we implemented the Allergens part of the pantry in order to help users not accidentally cook something that will flare up these allergies. Having these warnings in place will help protect the user from harm.

### Security Requirements

RecipeBuddy has a secure authentication system to ensure the privacy of users. When users sign up for RecipeBuddy, they are required to select a username, password, email, bio, and 3 security questions and answers. All of this information is kept securely and the password and security question answers is something only that user will know. These authentication questions allow for users to be easily able to reset their password by answering correctly. This ensures that the user can easily reset their password if it is forgotten.

Authentication is important for the maintenance of the website. Users will not be able to edit or delete any recipes that are not theirs. This ensures that users can only tamper with recipes that they have created and protects other user's on the website.

### Software Quality Attributes

RecipeBuddy should be easy for users to use and navigate. The layout we designed is meant to be coherent to the users so they know all the capabilities that the website has. This layout also ensures that users can easily search from anywhere within the website. Recipes are organized and categorized so it is very user friendly. Along with that, RecipeBuddy should be available for all

types of computers. Whether the user is on Mac, Windows or Linux RecipeBuddy is compatible with all platforms.

## **Business Rules**

While it is not required for a user to have an account to use RecipeBuddy, it is highly recommended. Users are encouraged to make an account so that they can create their own personal recipes. Although users who are not logged in can still view recipes, users miss out on the key functionality of the website. Thus, it is highly recommended that users create their own account when using RecipeBuddy.

## 6. Key Milestones

#	Milestone	Target Completion Date	Comments
1.	Frontend	3/9/2023	Main layout for frontend done (not including the backend)
2.	Backend	4/4/2023	Most of backend completed, not implementation of the api calls in the frontend
3.	Completing Backend implementation for recipes and ingredients	4/19/2023	Adding in backend for recipes and making sure they have their image component
4.	Implementation of user authentication / adding security	4/24/2023	Finished fixing security questions in the website so
5.	Combined Frontend and Backend	4/25/2023	Backend calls in Frontend.

## 7. Key Resource Requirements

*<Identify the skill or expertise required for each major project activity. Identify any appropriate internal staff resources available. Indicate whether a resource only can commit part-time in the comments. If no internal resources are available, indicate the outside sources needed for the required skills. You may need more than one outside resource.>*

Major Project Activities	Skill/Expertise Required	Internal Resource	External Resource	Issues/Constraints
Password reset	vue.js, laravel		<a href="https://youtu.be/watch?v=VuGRSpy92cI&amp;feature=share">https://youtu.be/watch?v=VuGRSpy92cI&amp;feature=share</a>	
Create Recipe	vue.js, laravel		<a href="https://www.youtube.com/watch?v=YGqCZjdgJJk">https://www.youtube.com/watch?v=YGqCZjdgJJk</a>	
Delete Recipe	vue.js, laravel		<a href="https://www.youtube.com/watch?v=YGqCZjdgJJk">https://www.youtube.com/watch?v=YGqCZjdgJJk</a>	
Edit Recipe	vue.js, laravel		<a href="https://www.youtube.com/watch?v=YGqCZjdgJJk">https://www.youtube.com/watch?v=YGqCZjdgJJk</a>	
Profile page	vue.js, laravel		<a href="https://youtu.be/watch?v=7GmBgtvGfzM&amp;feature=share">https://youtu.be/watch?v=7GmBgtvGfzM&amp;feature=share</a>	
User authentication	vue.js, laravel		<a href="https://www.youtube.com/watch?v=MT-GJQIY3EU">https://www.youtube.com/watch?v=MT-GJQIY3EU</a>	

## 8. Other Requirements

For our database we used MariaDB which is a version of the MySQL database. This is an open source relational database. Our version of MariaDB was 10.3.37. However, we did not interact directly with the database since it was part of Laravel to deal with it. Hence, no manual SQL queries were performed.

The website for MariaDB is: <https://mariadb.org/>

In order to always have a watch on what was going on the database side, we used a tool called PhpMyAdmin, which provides a web interface to administrate MariaDB and MySQL databases. Our version of PhpMyAdmin was 5.2.0.

To make local development cross-platform, we used a tool called Docker for our Backend. Docker creates containers for applications. We set up one with our backend so everybody could debug it from their own computers.

Lastly, concerning legal requirements, we created a specific page in our project called “credits”, accessible from our footer, to mention the different legal credits we needed to make in order to user specific icons for example.

## 9. Requirement Change Management

As Recipe Buddy is updated and requirements are changed, we will make sure to update the SRS to reflect those changes and the work that was done. If the customer wants to change something that was done or ask for more requirements, we as a team will discuss the best way to go about it and try to achieve those requirements. We would make sure someone on the team writes down all the new requirements or changes that are desired so that the rest of the team knows what needs to be done.

## 10. Restrictions, Limitations, and Constraints

There are some limitations to Recipe Buddy, due to the fact that not all of the backend is implemented. The part of the backend that is not implemented is the pantry page which allows users to store ingredients, utensils and allergies. This feature needs to be updated in the future to allow users to have this functionality.

## Appendix A: Glossary

Recipe Buddy: The website described in this document

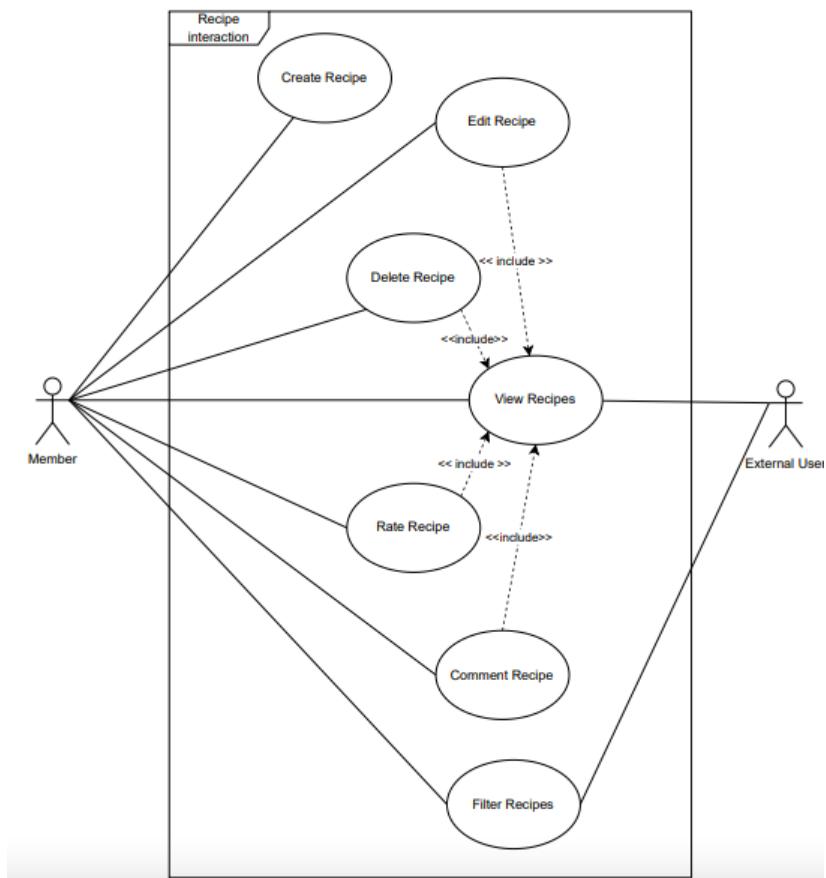
Vue.js: An open source model-view-viewmodel front end JavaScript framework for building user interfaces and single-page applications. Source: <https://en.wikipedia.org/wiki/Vue.js>

Laravel: A free and open-source PHP web framework. Source: <https://en.wikipedia.org/wiki/Laravel>

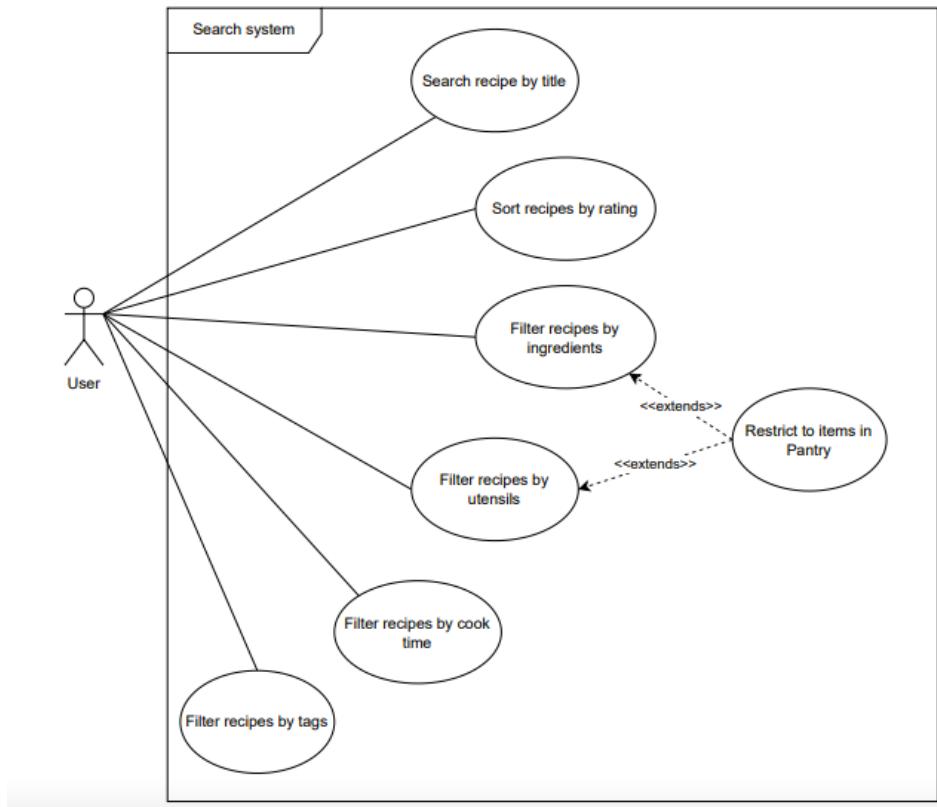
MariaDB: A fork of the MySQL database, intended to be free and open source. Source: <https://en.wikipedia.org/wiki/MariaDB>

## Appendix B: Analysis Models

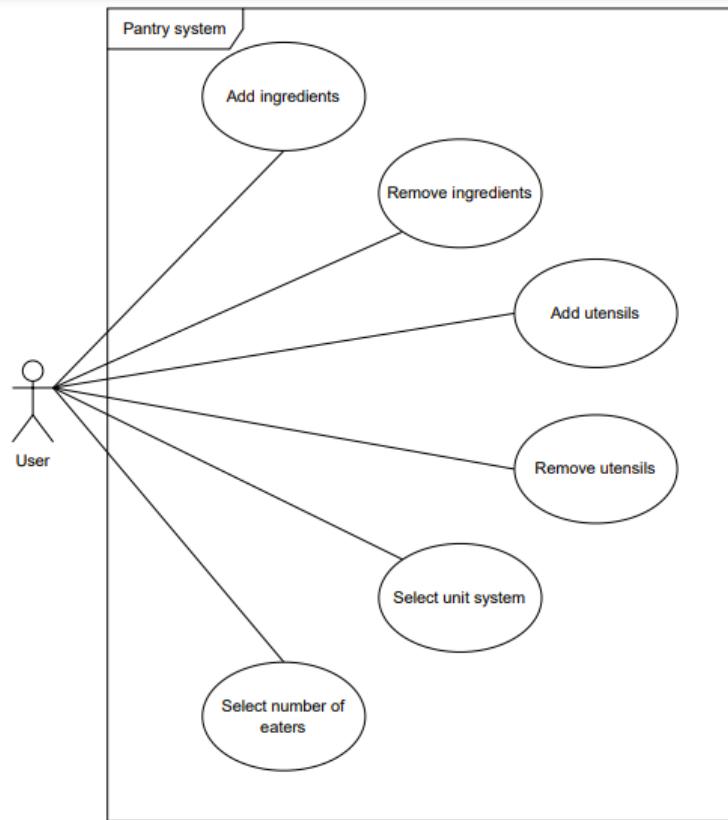
Use case 1- Recipe Interactions:



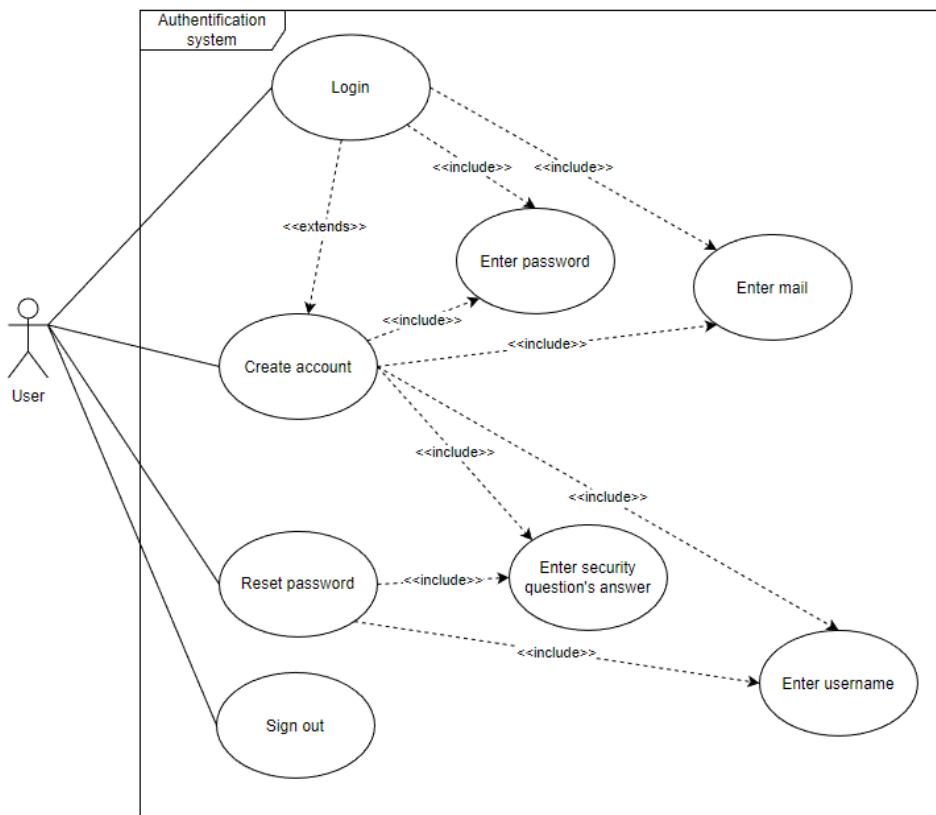
Use case 2- Search Function:



Use case 3- Pantry Functionality:



Use case 4- Authentication System Functionality



## **Appendix C: Issues List**

There are a few things that we did not get to do for Recipe Buddy due to time constraints.

Big things that need to be completed are:

- Creating the backend for the pantry page so that users are able to store all the data and retain it if they log out of the website.
- Adding in profile picture support for the profile page and add it into the signup page
- Adding in rating indication in the view recipe page

There were some stretch goals we did not meet either:

- Creating a comment section for the recipes
- Allowing other users to rate other users recipes