

**PROJECT DELIVERABLE ONE: REQUIREMENTS DOCUMENT**

Student: Thi Hue Dao

Developing Software Introduction

Instructor: Pardeep Rathore

April 21, 2022

## 1. Introduction

We discussed many different application ideas. However, due to limited time and knowledge about React pipeline, we decided to do a simple web app.

## 2. Scope

We will be designing a Recipe Book Collection web application. In this web application, a user will be able to read a recipe, add, edit, and delete the recipe by themselves. The application will contain a collection of these recipes which will be stored in the user's database.

List of features:

- The application includes the List to scroll through the list of recipes.
- The application includes the registration Screen
- The application includes the login Screen
- The application must include a Form to create a recipe.
- The application must include a Form to edit the recipe.
- The application must include a Form to delete the recipe.
- The application has a SQL Database to store user data.

## 3. Functional Requirements

### 3.1. Register

Use Case Description:

Introduction: This use case allows the user to register the system
Actor: User
Precondition: The user must have their email
Postcondition: If use case is successful, the user is granted access to the system by using login use case
Event Flow:  The user open Webchat application on the browsers  The user enters his/her email id and signs up  The user login id by using his or her email and password are saved with the system's database
Alternative Flow:

If the user open Webchat application but does not register, and try to login then an error message will be display that " The username or password you entered is incorrect. ". And use case returns to the beginning of the basic follow.
Special requirements: email
Associated use cases: None

### 3.2. Login

Use Case Description:

Introduction: This use case allows the user to access the system.
Actor: User
Precondition: The user must have their login id and password.
Postcondition: If the use case is successful, the user is granted access to the system.
<p>Event Flow:</p> <p>The user enters his/her login id and password.</p> <p>The user's id and password are matched with the system's database.</p> <p>The user is granted access to the system.</p>
Alternative Flow: If the system does not validate the user's login id or password due to entering wrong, an error message will be displayed and the use case return to the beginning of the basic flow.

#### Validity Checks:

- Every user will have a unique login ID.
- Login ID cannot be blank.
- Login ID must have 8 to 15 characters.
- Login ID will not accept empty spaces.
- Password cannot be blank.
- The length of the password must be from 8 to 15 digits.
- Password will not receive blank spaces.

### 3.3. Add recipe

Use Case Description:

Introduction: This use case allows the user to add a new recipe to the system.
--

Actor: User
Precondition: The user must have their login id and password.
Postcondition: If the use case is successful, the new recipe will be added to the system.
<p>Event Flow:</p> <p>The user open Recipe system</p> <p>The user fills out recipe form</p> <p>The new recipe is added in the system.</p>
Alternative Flow: If the user does not fill out all information about the recipe in the recipe form then an error message is flagged saying " you cannot add the new recipe in the system" and the use case returns to the basic flow.

**Validity Checks:**

Users must log in to the system.

**3.4. Delete recipe**

Use Case Description:

Introduction: This use case allows users to delete recipes from the system.
Actor: User
Precondition: The user must have their login id and password.
Postcondition: If the use case is successful, the recipe will be deleted from the system.
<p>Event Flow:</p> <p>The user logs in to the Recipe system</p> <p>The user deletes the recipe from the recipe list</p> <p>The recipe is deleted from the system.</p>
Alternative Flow: If the user does not choose recipe that they want to delete, then an error is flagged saying " You must select recipe" and the use case returns to the basis follow.

**Validity Checks:**

Users must log in to the system.

### 3.5. Edit the recipe

Use Case Description:

Introduction: This use case allows the user edits recipes from the system.
Actor: User
Precondition: The user must have their login id and password.
Postcondition: If the use case is successful, the recipe will be updated to the system.
Event Flow:  The user login to the system  The user opens recipe that they want to edit  The user edits information of recipe in the recipe form  The new recipe is added in the system.
Alternative Flow:

#### Validity Checks:

Users must log in to the system.

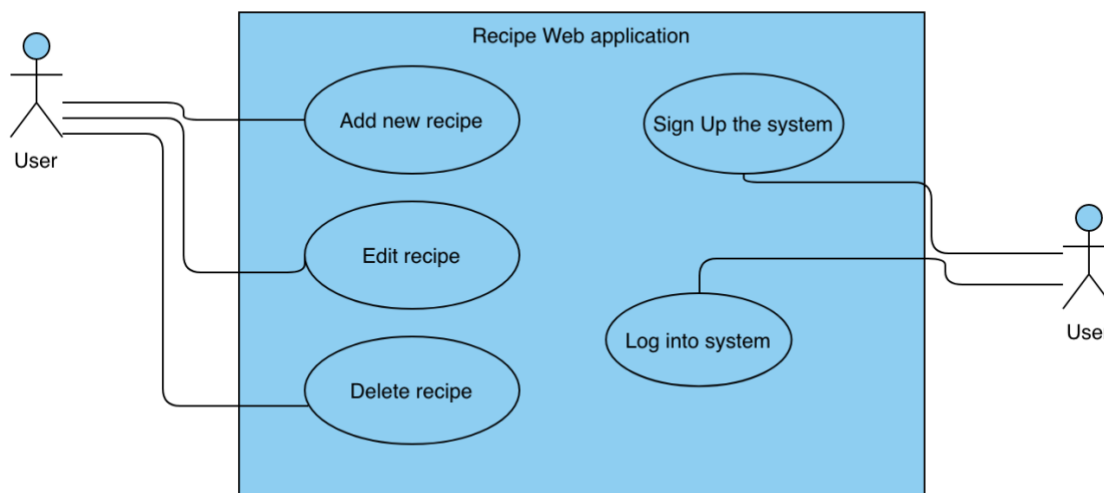
#### 4. Non-Functional requirements

- Performance must be smooth without UI delays and freezes.

The application should load within 2-3 seconds and efficiently with minimum delays or frame freezes.

- The UI should be user-friendly, have a bigger font, and be easy to navigate and press buttons.

## 5. Use case Diagram



### Dependencies:

- React-router-dom
- Node for back end
- MySQL database

### Product & Technical Specifications:

- React, React Hooks
- Github
- SQL
- React, SQL integration
- Redux

### General Assets:

- Pixabay website provides copyright-free images
- Material icons and Material UI has a great selection of Icons

### Domain requirements:

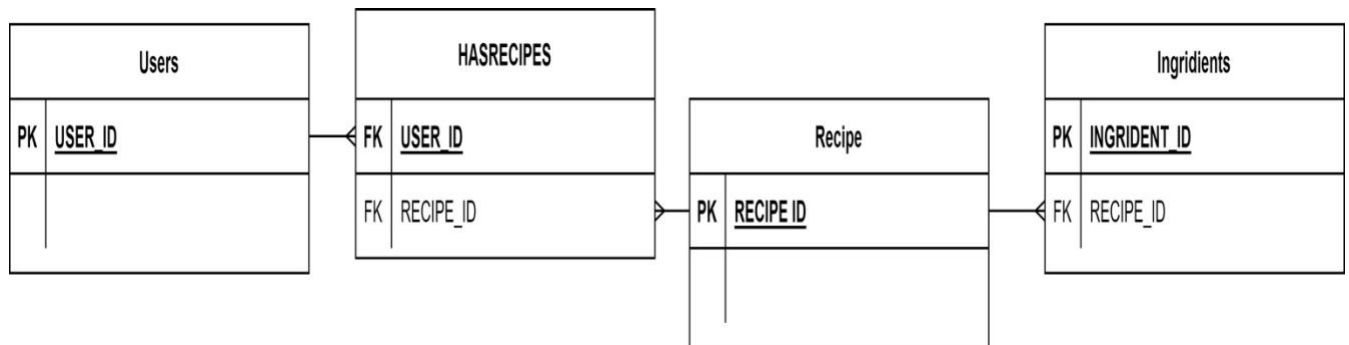
- The web app must run on modern browsers and mobile devices

User, system, and software requirements

- For all Cooking and Baking enthusiasts. This application is aimed at those who love to try new recipes. Now, people will be able to have their “grandma recipe book” in the palm of their hands or create their original recipes.
- The web should support modern browsers and mobile devices.
- It should not consume lots of memory.

ERD Database:

ED:



## 6. User Interface Flowchart:

### 5.1 Sign Up screen



### Sign Up Your Own Recipe

**Email**

**Password**

**Sign Up**

Login Screen





Login to Your Own Recipe

**User Name**

**Password**

Log In

Main recipe screen



Fresh noodles  
Pork slides  
cucumber  
Green Onions slices  
Sugar, fish sauce, black pepper

In a separate bowl, combine the pepper, chicken bouillon powder, oyster sauce, soy sauce, sugar, curry powder, condensed milk, annatto seed oil, honey, hoisin sauce, sesame seeds and oil.




255 g (1 3/4 c) rice flour  
85 g (0.7 c) all-purpose flour  
2-3 tsp turmeric  
Green onions chopped about 1/2" long

Lay the skewers on a grilling rack and cook in the oven for 15 minutes or until cooked through and golden.

Add new Recipe


Add recipe screen



### Add a New Recipe

Recipe Title \* (i)

Recipe Description (i)

 image

Prep time \*   (i)

Cook time \*   (i)

[Add](#) [Edit](#) [Delete](#)

**Edit recipe screen**



### Edit Recipe

Recipe Title \*

Grill Pork Noodle



Recipe Description



Pork slides

Cucumber

Green Onions sliced

Sugar, fish sauce, black pepper



In a separate bowl, combine the pepper, chicken bouillon powder, oyster sauce, soy sauce, sugar, curry powder, condensed milk, annatto seed oil, honey, hoisin sauce, sesame seeds, and oil.

Prep time \*

Hrs

1

Mins



Cook time \*

Hrs

2

Min



Add

Edit

Delete

Delete recipe screen





### Do you want to delete Recipe

Recipe Title \*

Grill Pork Noodle



Recipe Description



Pork slides

Cucumber

Green Onions sliced

Sugar, fish sauce, black pepper



In a separate bowl, combine the pepper, chicken bouillon powder, oyster sauce, soy sauce, sugar, curry powder, condensed milk, annatto seed oil, honey, hoisin sauce, sesame seeds, and oil.

Prep time \*

Hrs

1

Mins



Cook time \*

Hrs

2

Min



Add

Edit

Delete