CSC584 – ENTERPRISE PROGRAMMING

RECIPE SHARING AND MEAL PLANNING MANAGEMENT SYSTEM-STORYBOARD

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Group: CDCS2664D

Submit To:

MUHAMAD RIDHWAN MOHAMAD RAZALI

Prepared By:

GROUP ORKED

Group Members:

NURUL IZZATI MAISARAH BINTI MOHAMMAD PADZIL, 2023696408

NUR ATHIRAH BINTI MANSOR, 2023479376

NUR SYAFIKA ALYA BINTI MOHD ZAMRI AZHAR, 2023823848

NURUL ATHIRAH BINTI ASMADI, 2023862756

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1.0 INTRODUCTION

In this proposal, we, Nurul Izzati Maisarah Binti Mohammad Padzil, Nur Athirah Binti Mansor, Nur Syafika Alya Binti Mohd Zamri Azhar, Nurul Athirah Binti Asmadi, aim to develop a recipe sharing and meal planning website to streamline the way people discover, collect and organize recipes for their weekly meals. This user-friendly platform will cater to individuals in Malaysia seeking a more efficient and inspiring approach to home cooking.

Our analysis revealed that many people struggle with finding interesting recipes, planning balanced meals everyday, and keeping track of their culinary repertoire. This website will address these challenges by offering a comprehensive solution that integrates recipe sharing, meal planning tools and user-friendly features. Users will be able to browse various delicious recipes, explore meal planning suggestions, share their own culinary creations and access personalized dashboards to track their personal recipes and meal plans.
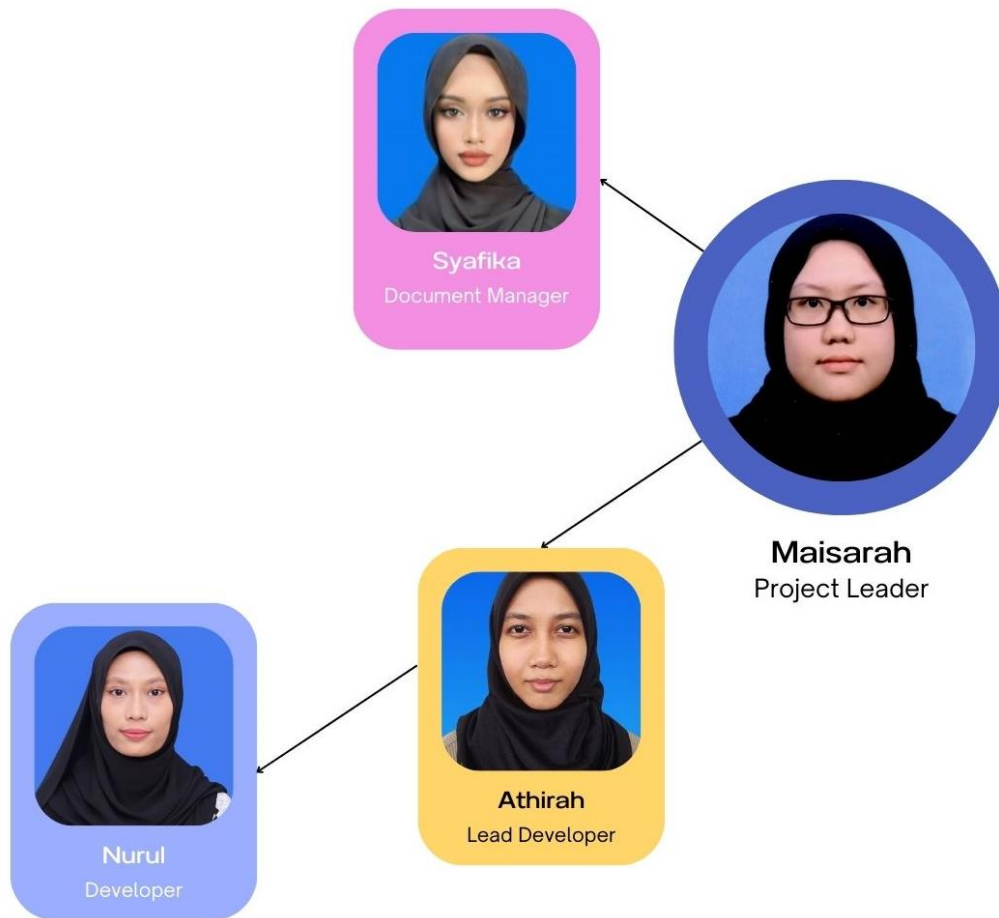
We will delve deeper into the specific functionalities and benefits of the website in the following sections. The proposal will outline the project's objectives, functionalities (including CRUD operations: Create, Read, Update, and Delete), and the overall user experience we aim to create.

1.1 ROLE OF MEMBERS

Our group is composed of four dedicated members, each contributing to our project in distinctive roles. Nurul Izzati Maisarah Binti Mohammad Padzil assumes the pivotal position of project leader, guiding our team with her strategic vision and organizational skills. Nur Athirah Binti Mansor assumes the role of lead developer, spearheading the technical aspects of our endeavour with expertise and innovation.

Meanwhile, Nur Syafika Alya Binti Mohd Zamri Azhar diligently fulfils the responsibilities of document manager, ensuring that our project's documentation is comprehensive, organized, and readily accessible. Lastly, Nurul Athirah Binti Asmadi plays a crucial role as a developer, contributing her programming prowess and attention to detail to the realization of our project goals. Together, each member brings unique strengths and capabilities to our team, fostering collaboration and driving our project towards success.

ORGANIZATIONAL CHART

Syafika
Document Manager

Maisarah
Project Leader

Athirah
Lead Developer

Nurul
Developer

2.0 OBJECTIVE

i. Sharing recipe as a way to discover new meals

- Our first objective is to help people share recipes and discover new meals. People might be bored of repeating the same food every day and want to try a new recipe, but they have a hard time searching for and finding new meals. With this management system, we hope to help them discover new recipes based on what they are interested in.

ii. Simplify meal planning

- Simplify meal planning will be focused on helping the user create their daily meal plans by starting to choose a day, whether for breakfast, lunch, snack, or dinner. By then, the user can start creating the meal that they want to eat on that day. The user is also allowed to edit and delete the existing meal, as maybe they are not satisfied with the planning. This is the meaning of simplifying, where the user can easily check out the meal planning, they have done in one place without needing to go back and forth from different websites.

iii. User friendly features

- The user's ability to modify depends on the individual user's needs and preferences. Can be seen through the meal planning section, for example, when the user can create, edit, and delete the planner information. The user can also experience add, edit, and delete in the recipe sharing section, which is like meal planning. This can enhance the user's familiarity with the website later. Not only that, but users can also view their profile and explore the preview of favourites pages once they add the recipe they are interested in to their favourites.

3.0 FLOW OF THE APPLICATION

3.1 FLOWCHART

This is the flowchart of our website, where it shows the flow of the user to follow when using the Recipe Sharing and Meal Planning Management System.

Figure 1.0

3.2 CREATE

Figure 2.0:

```html
<body>
    <div class="container">
        <h1>Recipe Sharing and Meal Planning Management</h1>
        <form action="#">
            <div class="input-container">
                <input type="text" placeholder="Username" required>
            </div>
            <div class="input-container">
                <input type="password" placeholder="Password" required>
            </div>
            <button type="submit">Login</button>
        </form>
        <div class="links">
            <a href="register.html">Register Account</a>
            <a href="forgot_password.html">Forgot Password</a>
        </div>
    </div>
</body>
```
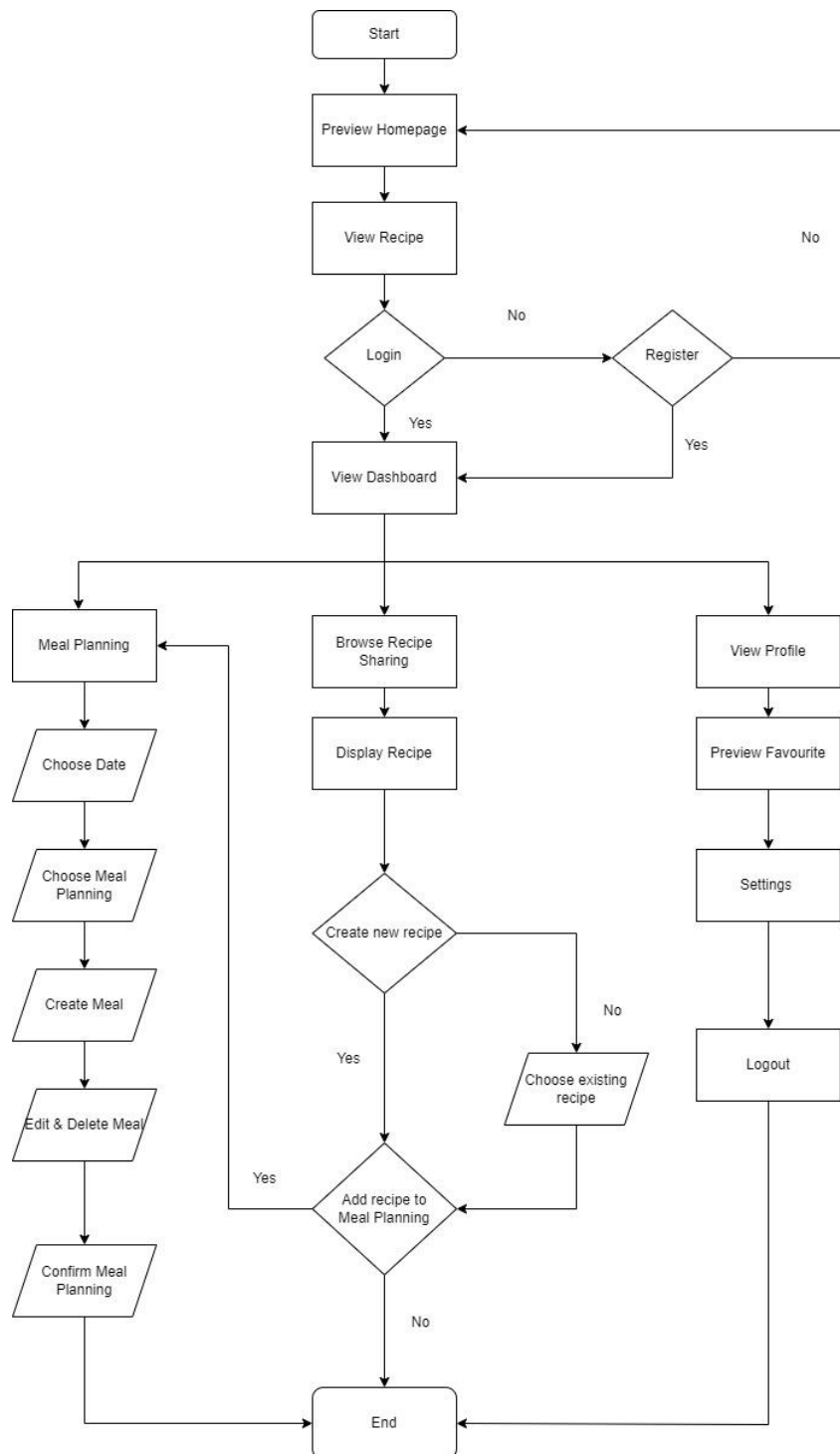
Output:

Figure 2.1

```html
<body>
    <div class="container">
        <h1>Recipe Sharing and Meal Planning Management</h1>
        <form action="#">
            <div class="input-container">
                <input type="text" placeholder="Username" required>
            </div>
            <div class="input-container">
                <input type="email" placeholder="Email" required>
```
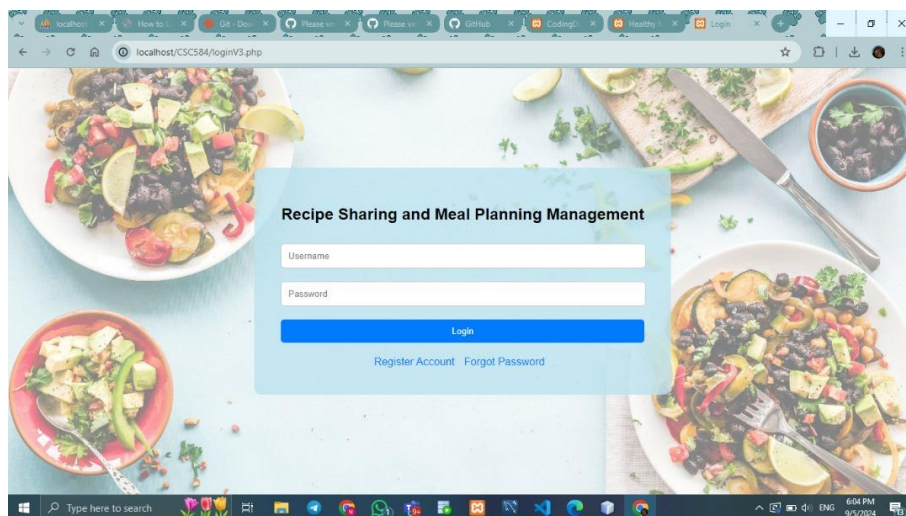
6

```html
                </div>
                <div class="input-container">
                    <input type="password" placeholder="Password" required>
                </div>
                <div class="input-container">
                    <input type="password" placeholder="Confirm Password"
required>
                </div>
                <div class="row">
                    <div class="col-4">
                        <div class="icheck-primary">
                            <input type="checkbox" id="agreeTerms" name="terms"
value="agree">
                            <label for="agreeTerms">
                            I agree to the <a href="#">terms</a>
                            </label>
                        </div>
                    </div>
                    <!-- /.col -->
                    <div class="col-12">
                        <button type="submit" name="Register_Button">Register
Account</button>
                    </div>
                    <!-- /.col -->
                </div>
        </form>
        <div class="links">
            <a href="loginV3.html">Already have an account? Login here</a>
        </div>
    </div>
</body>
```

Output:

Figure 2.2

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```
<div class="button-position">
        <button class="button button2"
onclick="location.href='createNewRecipe.html'"> + Create new recipe</button>
      </div>
```

Output:

Figure 2.3

```
    <div class="recipe-container">
        <h2>Insert your recipe description</h2>
        <form method="POST" action="" enctype="multipart/form-data">
            <div class="left-side">
                <div class="drop-zone">
                    <span class="drop-zone__prompt">Drop your recipe image
here or click to upload</span>
                    <input type="file" name="myFile" class="drop-zone__input">
                </div>
            </div>

            <div class="text-container">
                <div class="form-grid">
                    <b><label for="recipe-name">Recipe Title:</label></b>
                    <input type="text" name="recipeName" placeholder="Enter
recipe name" rows="1" class="adjustable-text-box" required>
                    <b><label for="servings">Servings:</label></b>
                    <input type="text" name="servings" placeholder="Enter
servings" rows="1" class="adjustable-text-box" required>
                    <b><label for="recipe-desc">Recipe
Description:</label></b>
                    <input type="text" name="recipeDescription"
placeholder="Enter a short description of your recipe (10 to 12 words)"
rows="1" class="adjustable-text-box" required>

                    <b><label for="categories">Categories:</label></b>
```
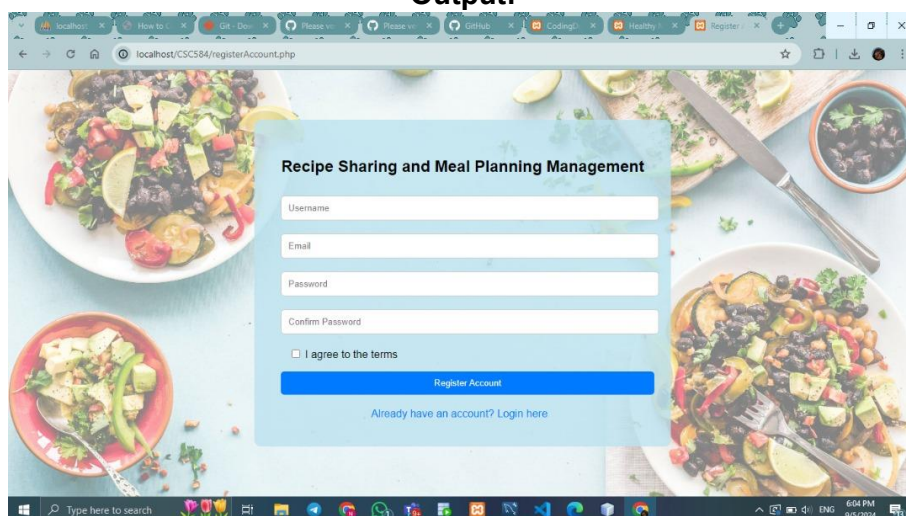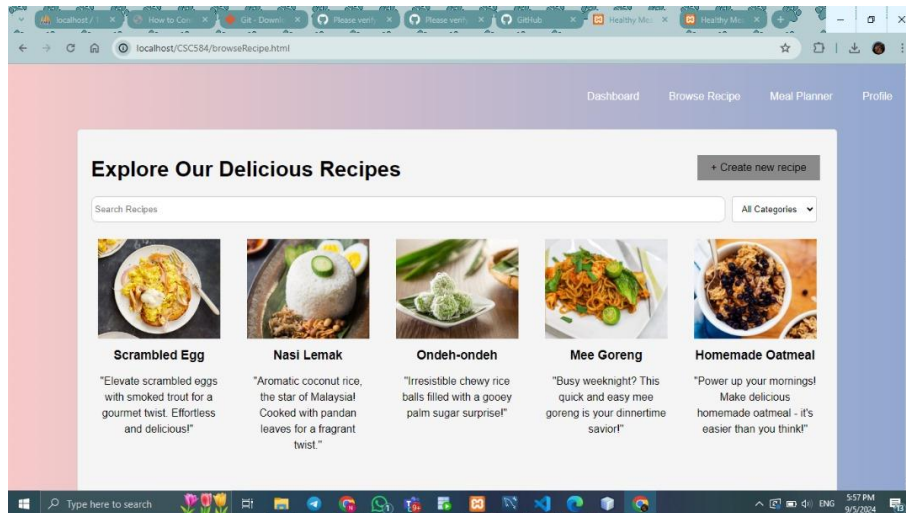
```html
                    <select name="categories" class="adjustable-dropdown"
required>
                        <option value="" disabled selected>Select
category</option>
                        <option value="Breakfast">Breakfast</option>
                        <option value="Lunch">Lunch</option>
                        <option value="Snacks">Snacks</option>
                        <option value="Dinner">Dinner</option>
                    </select>

                    <b><label for="ingredients">Ingredients:</label></b>
                    <div class="ingredient-class">
                        <div class="form-group" id="ingredients-container">
                            <div class="ingredient-group">
                                <input type="text" name="ingredientName[]"
placeholder="Enter ingredient name...">
                                <input type="text" name="ingredientQuantity[]"
placeholder="Enter ingredient quantity...">
                                <button type="button" class="remove-btn"
onclick="removeIngredientField(this)">Remove</button>
                            </div>
                        </div>
                        <input type="button" value="Add Ingredient"
onclick="addIngredientField()" style="background-color: #5e5c5c;"> <!-- Dark
grey color -->
                    </div>

                    <b><label for="instructions">Instructions:</label></b>
                    <div class="instructions-container">
                            <div id="stepsContainer">
                            </div>
                            <input type="button" value="Add Instructions"
style="background-color: #5e5c5c;" onclick="addStep()">
                    </div>
                </div></br>
                <button type="submit" name="Submit_Button" class="button-
container">Submit</button>
            </div>
        </form>
    </div>
```

Output:

Figure 2.4

```
<button class="button button2" onclick="openPopup()">Add recipe to meal
plan</button>
```

Output:

Figure 2.5

```
<div class="popup-content">
            <span class="close" onclick="closePopup()">&times;</span>
            <h2>Add to Meal Plan</h2><br>
            <form>
              <label for="category">Select Category:</label>
              <select id="category" name="category">
                <option value="breakfast">Breakfast</option>
                <option value="lunch">Lunch</option>
                <option value="snack">Snack</option>
                <option value="dinner">Dinner</option>
              </select><br>
              <label for="date">Select Date:</label>
```
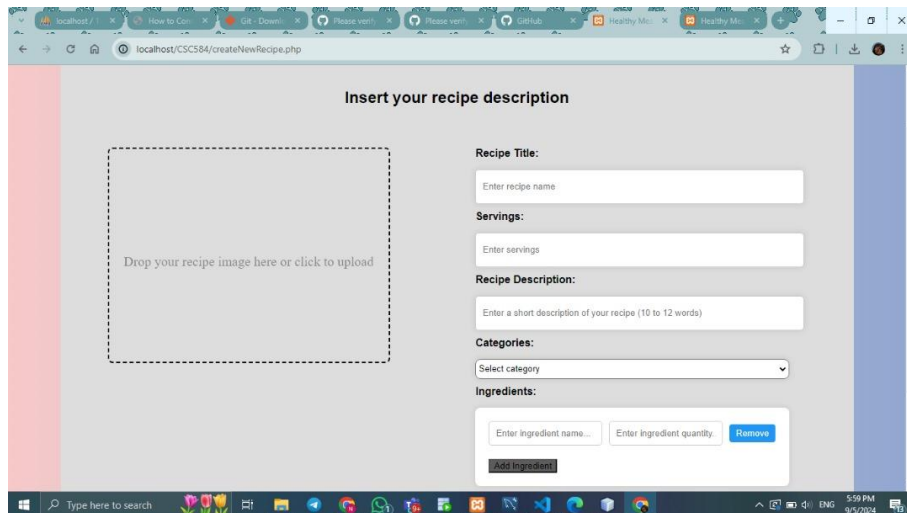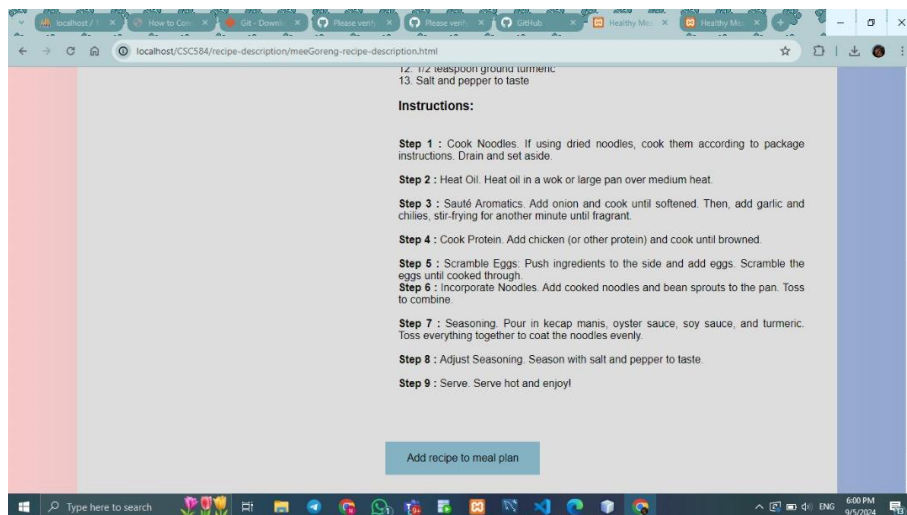
10

```
                    <input type="date" id="date" name="date"><br>
                    <button class="button button2"><a
href="mealPlanner.html"></a>Add</button>
                    </form>
                </div>
```

3.3 UPDATE

Figure 3.0

```
        <div class="tab-pane fade active show" id="account-general">
                                <hr class="border-light m-0">
                                    <div class="card-body">
                                        <div class="form-group">
                            <label class="form-label">Username</label>
                            <input type="text" class="form-control mb-
                    1" value="tyraaaa">
                                            </div>
                                        <div class="form-group">
                            <label class="form-label">E-mail</label>
                            <input type="text" class="form-control mb-
                1" value="tyraaaa@mail.com">
                                    <div class="alert alert-warning mt-3">
                                Your email is not confirmed. Please
                    check your inbox.<br>
                                        <a href="javascript:void(0)">Resend
                    confirmation</a>
                                            </div>
                                        </div>
                                    <div class="text-right mt-3">
                                    <button type="button" class="btn btn-
                primary">Save changes</button> 
                                    <button type="button" class="btn btn-
                default">Cancel</button>
                                            </div>
                                        </div>
```

Output:

Figure 3.1

```html
<div class="tab-pane fade" id="account-my-recipe">
    <section class="recipe-container">
        <h2>My Recipes</h2>
        <table>
            <thead>
                <tr>
                    <th>Date Created</th>
                    <th>Recipe Name</th>
                    <th>Categories</th>
                    <th></th>
                    <th></th>
                </tr>
            </thead>
            <tbody>
                <tr>
                    <td>2024-05-08</td>
                    <td>Scrambled Eggs with Toast</td>
                    <td>Breakfast</td>
                    <td><button class="btn btn-update">Update</button></td>
                    <td><button class="btn btn-delete">Delete</button></td>
                </tr>
                <tr>
                    <td>2024-05-07</td>
                    <td>Mee goreng</td>
                    <td>Dinner</td>
                    <td><button class="btn btn-update">Update</button></td>
                    <td><button class="btn btn-delete">Delete</button></td>
```
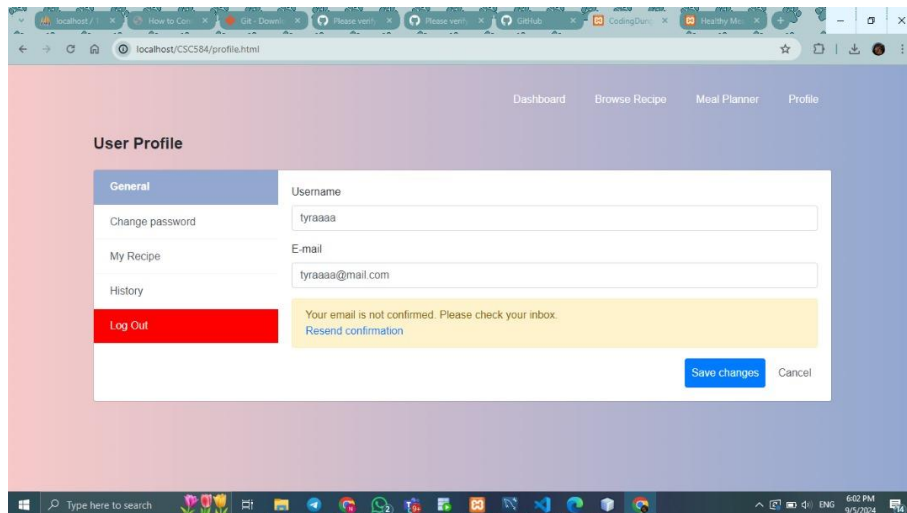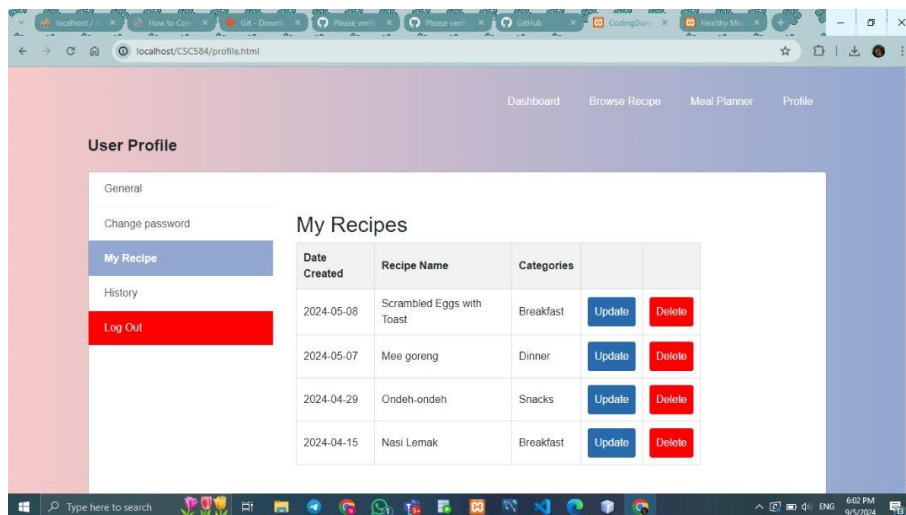
```
                                            </tr>
                                            <tr>
                                    <td>2024-04-29</td>
                                    <td>Ondeh-ondeh</td>
                                        <td>Snacks</td>
                                <td><button class="btn btn-
update">Update</button></td>
                                    <td><button class="btn btn-
delete">Delete</button></td>
                                            </tr>
                                            <tr>
                                    <td>2024-04-15</td>
                                    <td>Nasi Lemak</td>
                                        <td>Breakfast</td>
                                <td><button class="btn btn-
update">Update</button></td>
                                    <td><button class="btn btn-
delete">Delete</button></td>
                                            </tr>
                                        </tbody>
                                        </table>
                                    </section>
                                        </div>
```

Output:

3.4 DELETE

Figure 4.0:

```
<div class="tab-pane fade" id="account-history">
                    <section class="recipe-container">
                        <h2>History</h2>
                        <div class="date">
```

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```html
                                    <label for="date">Select Date:</label>
                                    <input type="date" id="date"
name="date"><br><br>
                              </div>
                            <table>
                              <thead>
                                <tr>
                                  <th>Date Created</th>
                                  <th>Recipe Name</th>
                                  <th>Categories</th>
                                  <th></th>
                                </tr>
                              </thead>
                              <tbody>
                                <tr>
                                  <td>2024-04-18</td>
                                  <td>Scrambled Eggs with Toast</td>
                                  <td>Breakfast</td>
                                  <td><button class="btn btn-
delete">Delete</button></td>
                                </tr>
                                <tr>
                                  <td>2024-04-18</td>
                                  <td>Mee goreng</td>
                                  <td>Dinner</td>
                                  <td><button class="btn btn-
delete">Delete</button></td>
                                </tr>
                                <tr>
                                    <td>2024-04-20</td>
                                    <td>Ondeh-ondeh</td>
                                    <td>Snacks</td>
                                    <td><button class="btn btn-
delete">Delete</button></td>
                                </tr>
                                <tr>
                                  <td>2024-04-25</td>
                                  <td>Nasi Lemak</td>
                                  <td>Breakfast</td>
                                  <td><button class="btn btn-
delete">Delete</button></td>
                                </tr>
                              </tbody>
                            </table>
                          </section>
                      </div>
```

OUTPUT
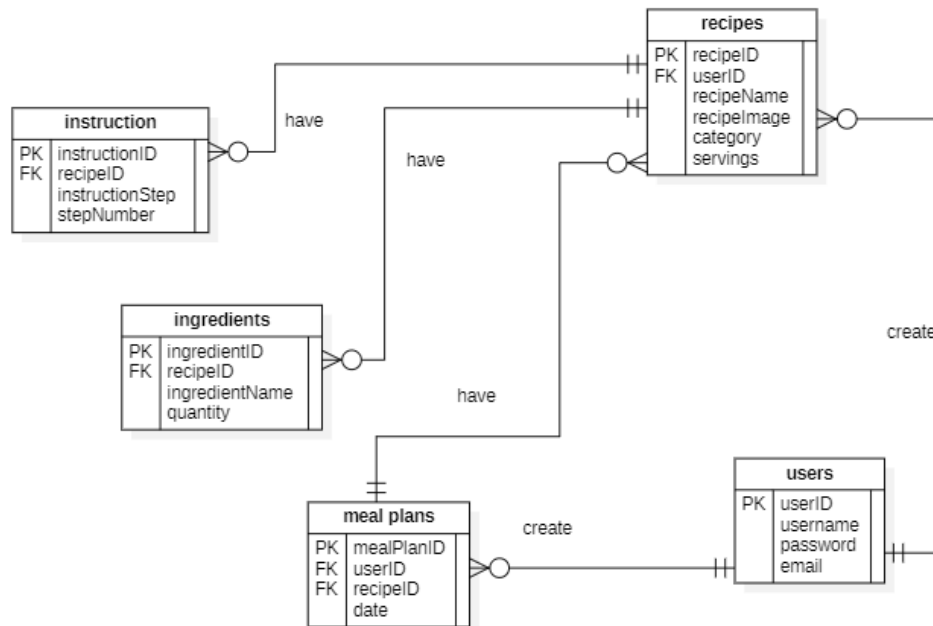
4.0 DATABASE DESIGN

Figure 5.0

The ERD contains 5 tables which are users, recipes, meal plan, ingredients and instructions. The **users** table has information of userID, username, password and email. The primary key for users table is the userID. The **recipe** table has information of recipeID, userID, recipeName, recipeImage, category and servings. The primary key for users table is the recipeID. The **meal plan** table has information of mealPlanID, userID, recipeID and date. The primary key for users table is the mealPlanID. The **ingredients** table has information of ingredientID, recipeID, ingredientName and quantity. The primary key for users table is the ingredientID. The **instruction** table has information instructionID, recipeID, instructionStep and stepNumber. The primary key for users table is the instructionID.

As for the relationship,

One **user** can create many **recipes** (Users.user_id - Recipes.user_id). One **recipe** can have many **ingredients** and **instructions** (Recipes.recipe_id - Ingredients.recipe_id & Recipes.recipe_id - Instructions.recipe_id). One **user** can create many **meal plans** (Users.user_id - Meal Plans.user_id). One **meal** plan can have many **recipes** (Meal Plans.meal_plan_id - Recipes.recipe_id [one-to-many relationship, with the possibility of a user-created recipe having a null recipe_id]).