Functionality Guide

To successfully implement the recipe management system, following functionalities are incorporated:

1. **User Authentication:**

   o **Secure Registration and Login:** Implement robust user registration and login processes to protect user data and personalize experiences.

2. **Recipe Creation and Management:**

   o **CRUD Operations:** Allow users to create, read, update, and delete recipes, including details such as title, cooking time, ingredients, directions, and type (e.g., Appetizer, Main Course).

3. **Image Upload and Storage:**

   o **Image Handling:** Enable users to upload images for each recipe and store the image files in a designated images directory.

4. **Recipe Display:**

   o **User-Friendly Presentation:** Present recipe details, including the uploaded image, in a user-friendly format, ensuring images are displayed correctly and handling cases where no image is available.

5. **Search and Filtering:**

   o **Ingredient-Based Search:** Allow users to search for recipes by entering specific ingredients.

   o **Dietary Preferences Filtering:** Provide options to filter recipes based on dietary preferences (e.g., vegetarian, non-vegetarian).

6. **Validation and Error Handling:**

   o **Input Validation:** Implement validation for all user inputs to maintain data integrity.

   o **Error Messaging:** Provide clear error messages and guidance for users when issues arise.

7. **Database Management:**

   o **Efficient Schema Design:** Design the database schema to efficiently store user and recipe information, ensuring scalability and performance.

8. **Security Measures:**

    o **Password Hashing:** Implement secure password hashing to protect user credentials.

9. **User Interface and Experience:**

    o **Responsive Design:** Design an intuitive and responsive interface for both desktop and mobile users, providing clear navigation and feedback to enhance user engagement.

By integrating these functionalities, the Online Recipe Manager offers a robust and user-friendly platform for managing recipes.

Database Description

The **Recipe Manager** employs a relational database to systematically store and manage user and recipe information. The database consists of two primary tables: users and recipes.

1. Users Table (users):

This table holds essential details about each registered user.

- **Columns:**

    - UserID -A unique identifier for each user.

    - Name -The user's full name.

    - Email -The user's email address, which must be unique.

    - PasswordHash -A hashed version of the user's password for secure authentication.

2. Recipes Table (recipes):

This table contains detailed information about each recipe added by users.

- **Columns:**

    - RecipeID-A unique identifier for each recipe.

    - Title -The name of the recipe.

    - TimeToCook -The estimated time required to prepare the dish.

    - Vegetarian -Indicates if the recipe is vegetarian (1 for Yes, 0 for No).

    - Ingredients -A list of ingredients needed for the recipe.

    - Directions -Step-by-step instructions on how to prepare the dish.

    - Type-The category of the recipe.

    - UserID -References the UserID from the users table, linking the recipe to its creator.

    - Image -Stores the file path of the recipe's image.

- **Constraints:**

    - FOREIGN KEY (UserID) REFERENCES users(UserID) ON DELETE CASCADE: Ensures that each recipe is associated with a valid user. If a user is deleted, all their associated recipes are also removed.

Relationships:

The database establishes a one-to-many relationship between users and recipes:

- Each user can create multiple recipes, but each recipe is linked to a single user.
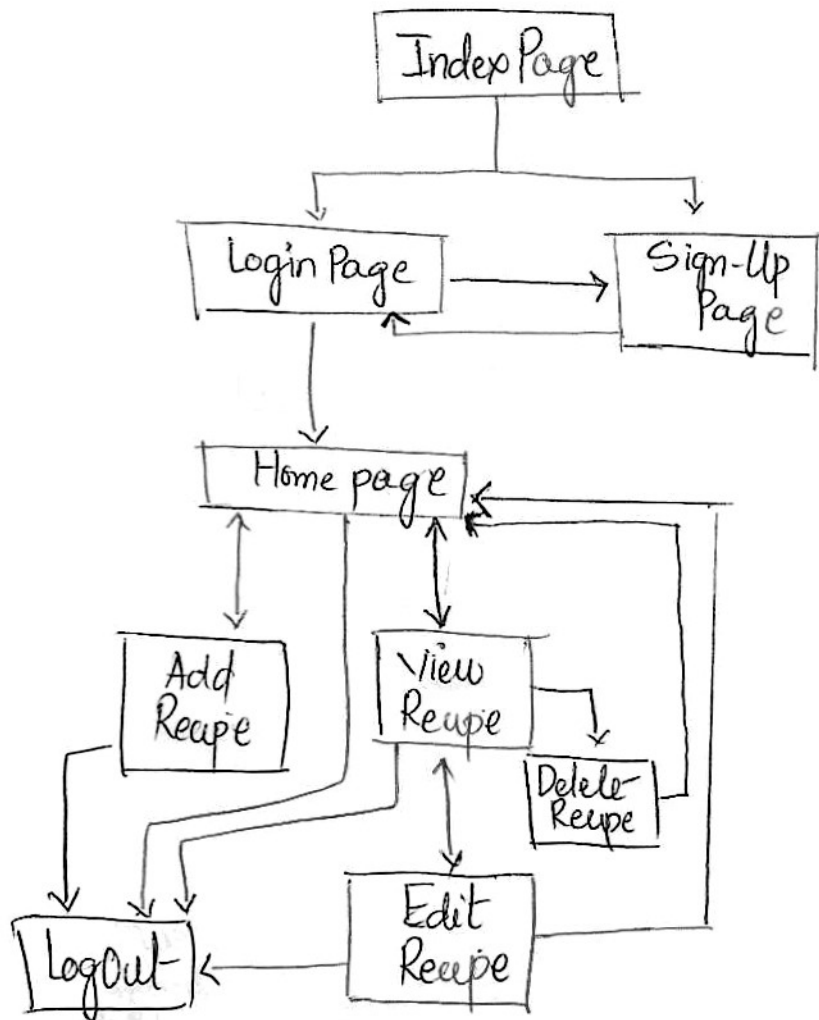
Data Integrity:

- The unique constraint on the Email field in the users table prevents duplicate email registrations.

- The foreign key constraint in the recipes table ensures that every recipe is linked to an existing user.

This database design supports the core functionalities of the Recipe Manager, including user registration, recipe creation, and personalized recipe management.

Tasks Breakdown

Everything was done together by the team members.

SiteMap

```
                    ┌──────────────┐
                    │  Index Page  │
                    └──────┬───────┘
              ┌────────────┴────────────┐
              ▼                         ▼
      ┌──────────────┐          ┌──────────────┐
      │  Login Page  │ ───────▶ │   Sign-Up    │
      └──────┬───────┘          │     Page     │
             │                  └──────────────┘
             ▼
      ┌──────────────┐
      │  Home page   │◀────────────────┐
      └──┬────┬───┬──┘                 │
         │    │   │                    │
   ┌─────┘    │   ▼                    │
   ▼          │ ┌────────┐             │
 ┌──────┐     │ │  View  │ ─▶ ┌────────┐
 │ Add  │     │ │ Recipe │    │ Delete │
 │Recipe│     │ └────┬───┘    │ Recipe │
 └──┬───┘     │      ▼        └────────┘
    │         │ ┌────────┐
    ▼         ▼ │  Edit  │
 ┌────────┐◀────│ Recipe │
 │ LogOut │     └────────┘
 └────────┘
```

1)

WIRE FRAME

1) "Index.html"

| Header | | Login   Sign Up |

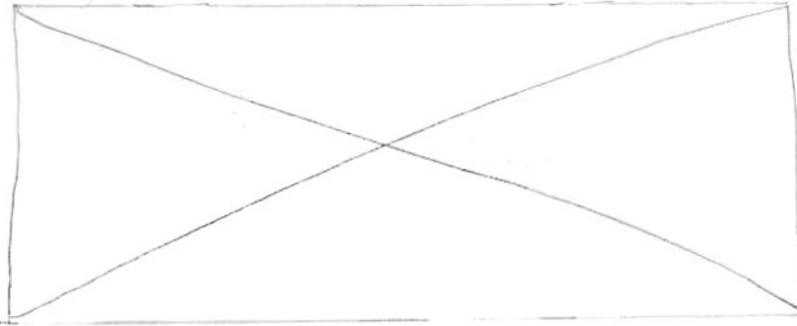Image.

Welcome message
&
Site Overview

Sign Up   Login

Footer.

"Registration_page.html"

User Registration Form

Email

[   ]

User Name

[   ]

Password

[   ]

Re-type Password

[   ]

☐ I agree to terms

[Sign-Up]

[Reset]

[Login Page]

3)

"Login_page.php"

| header | Sign Up |

Login

Email

Password

Login

Sign Up

Footer

u)

home_page.php

| header | Home   logout |

```
Welcome Message
    and   Image
```

| Search Recipe field | | Add Recipe | | Filter recipe ▽ |

| Search (btn) | | Reset (btn) | | Apply | | Reset |

My Recipes (user's Recipes)
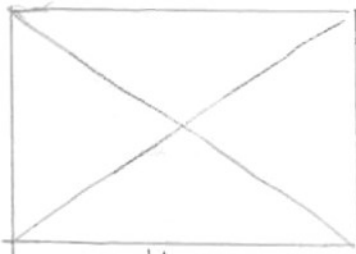
Title
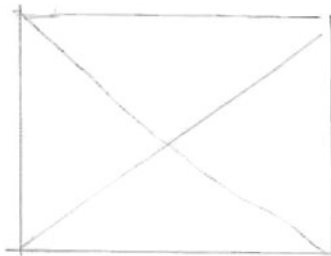
Title

Title

| Footer |

5)
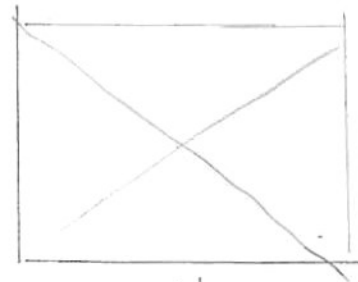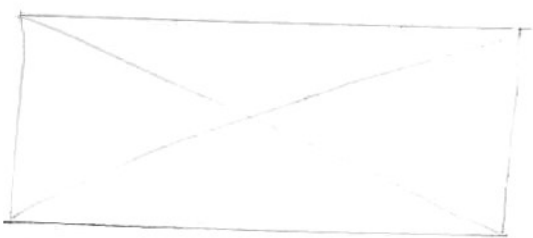
View_recipe.php

| Back to Home | Edit | Delete |

Recipe :- Title

Type :-

Time To cook :-

Is Vegetarian :

Ingredients :-
-
-
-

Directions :-
-
-
-
-

Footer

6).

Header   Home Logout

Recipe Image
Choose   File

Title
[Text   ]

Time to cook
[Text   ]

Is Vegetarian
[Text   ]

Ingredients
[Text   ]

Directions
[Text   ]

Type
[Text   ]
[Save changes   ]
[Back to Home   ]

Footer

).

new-recipe_page.php

Create New Recipe

Upload Image

| Choose File | No file Chosen |

Image

Recipe Title

[   ]

Time to cook

[   ]

Is Vegetarian

[   ]

Ingredients

[   ]

Directions

[   ]

Recipe Type

[   ]

| Create Recipe |
| Back to Home. |