

## Project Description

The **Recipe Management and Social Platform** that is called PinFood is a web application designed to provide users with an easy-to-use interface for creating, managing, and sharing their favorite recipes. The platform not only allows users to upload and organise their own recipes, but it also fosters a sense of community by enabling interactions between users through features such as comments, likes, ratings, and recipe sharing. This application aims to bring food lovers together and create a dynamic space for culinary enthusiasts to connect and share their passion for cooking.

Target Audience: PinFood caters to a diverse audience, including:

- **Food lovers:** Individuals who love exploring and trying new recipes.
- **Home Cooks:** People who cook at home and are looking for meal ideas and practical cooking tips.
- **Professional Chefs:** Culinary professionals who want to share their recipes, showcase their skills, and discover new inspirations.
- **Food Bloggers:** Bloggers who focus on food and cooking, using PinFood to share their content with a broader audience and engage with followers.
- **Baking Aficionados:** Those who have a keen interest in baking and want to discover and share baking recipes and techniques.
- **Health-Conscious Individuals:** People looking for nutritious recipes and cooking tips that align with their dietary preferences and health goals.

## Key Features

1. **User Account Management:**
  - **Registration & Login:** The application allows users to register by creating an account with a username, email address, and password. Registered users can log in securely to access their personal dashboard.
  - **Profile Management:** After logging in, users can view and manage their profile. This includes updating their profile information such as their display name, email address, bio, image and password. The profile will display the user's uploaded recipes, their interaction history, and activity feed.
  - **Password Management:** Users will have the option to change their password securely if needed.
2. **Recipe Management:**
  - **Create New Recipes:** Users can create new recipes by filling out fields such as recipe title, ingredients and description. The recipe form will allow users to upload images to accompany their recipe.
  - **Edit and Delete Recipes:** Once a recipe is created, users can update or modify it at any time. They can also delete recipes if they no longer wish to share them with others.
3. **Interaction Features:**
  - **Likes and Ratings:** Users can like recipes to show their appreciation. Additionally, they can rate recipes on a scale (e.g., 1 to 5 stars) based on their

experience. This feature allows users to engage with recipes they find interesting or delicious.

- **Commenting on Recipes:** Users can comment on recipes to ask questions, leave feedback, or share their own tips. Comments will be displayed on the recipe detail page and users can edit or delete their comments as needed.

#### 4. **Community Features:**

- **Sharing Recipes:** Users can share their recipes either within the platform or on Facebook.
- **Notifications:** Users will receive notifications about the people that are messagin them.

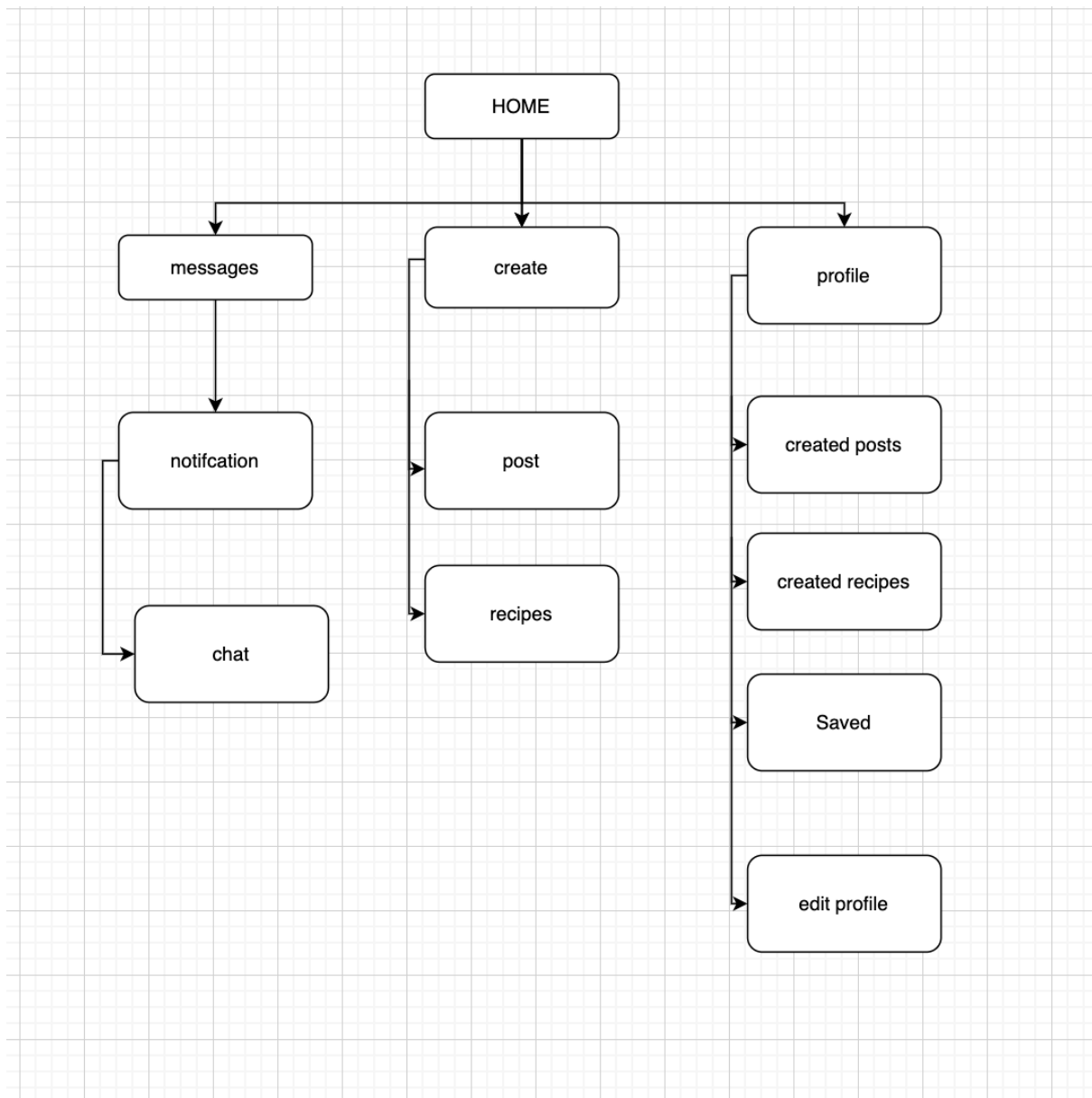
#### 5. **Personalized Experience:**

- **User Dashboard:** They can view a list of their saved and created recipes and manage their content in one place.
- **Saved Recipes:** Users can save their favorite recipes to their profile for quick access later.

#### 6. **Recipe Discovery:**

- **Search Functionality:** This will help users quickly find recipes that match their tastes and dietary preferences.
- **Featured Recipes:** The homepage will display a selection of featured or recipes, showcasing the recently posted content.

## Site Map

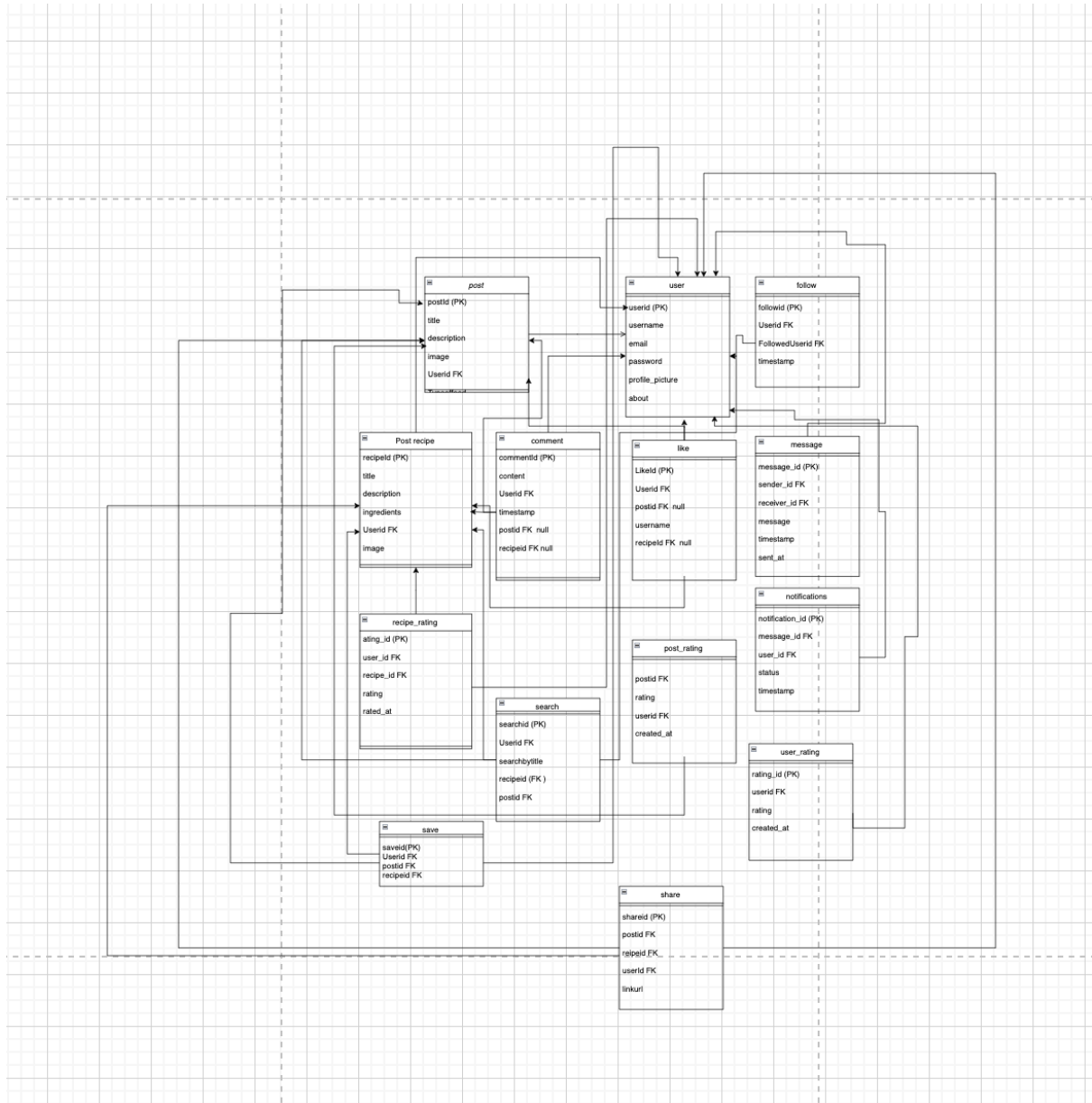


- **Home** is the main starting point of the app. From here, users can access three main sections:
- **Messages**
  - Users can view **notifications** for new messages.
  - From notifications, they can open the **chat** to communicate with other users.
- **Create**
  - This section allows users to create content:
    - **Post**: Users can create a new post.
    - **Recipes**: Users can add new recipes.
- **Profile**
  - This section helps users manage their content and account:

- **Created Posts:** View the posts the user has created.
- **Created Recipes:** View the recipes the user has shared.
- **Saved:** View posts or recipes the user has saved.
- **Edit Profile:** Update personal information or account details.

## Erd

- **User:** Info about each user (name, email, profile picture, etc.).
- **Post:** Users create posts with titles, descriptions, images, and food types.
- **Recipe:** Users share recipes with ingredients, titles, and images.
- **Comment:** Users comment on posts or recipes.
- **Like:** Users like posts or recipes.
- **Follow:** Users follow other users.
- **Messages:** Users send private messages to each other.
- **Notifications:** Alerts about messages for users.
- **Post Rating:** Users rate posts.
- **Recipe Rating:** Users rate recipes.
- **User Rating:** Users rate other users.
- **Save:** Users save recipes.
- **Search:** Tracks what users search for (posts, recipes).
- **Share:** Users share posts or recipes via links.



## Ipo chart

I created an IPO (Input, Process, Output) chart to explain how users interact with my app. Each row covers a different feature, such as:

1. **Creating a recipe:** User provides recipe details. The system checks, saves, and shows confirmation or redirects to the recipe page.
2. **Adding a comment:** User types a comment. The system validates it, saves it, and updates the comment section.
3. **User login:** The system checks the login info, starts a session, and sends the user to their dashboard.

I also included other actions like liking, sharing, saving, searching, following, and messaging. For each feature, I outlined what the user provides, what happens behind the scenes, and what the user sees afterward.

	Feature	Input	Process
1	Create a Recipe	Recipe title, description, ingredients, steps, image, user ID	- Validate all inputs - Save to <code>postrecipe</code> table with user ID
2	Add a Comment	Comment text, recipe ID/post ID, user ID	- Check if comment is not empty - Save to <code>comment</code> table linked to recipe/post and user
3	User Login	email, password	- Check if email exists - Match password - Start session
4	Rate a Recipe	Rating value, recipe ID, user ID	- Validate rating value - Insert into <code>recipe_ratings</code> table
5	Follow a User	Current user ID, followed user ID	- Ensure not already following - Insert into <code>follow</code> table
6	Send Message	Sender ID, receiver ID, message text	- Validate message - Insert into <code>messages</code> table with timestamp
7	Search Recipes	Search term, user ID	- <code>postrecipe</code> or <code>post</code> table by title/description match -
8	Like a Post/Recipe	Post ID or Recipe ID, user ID	- Check for duplicates

			- Insert into <code>like</code> table
9	<b>Share Recipe/Post</b>	Post/Recipe ID, user ID, link URL	- Insert into <code>share</code> table