

Project Planning

RECIPE.ME

Strategy

Brief:

Build a web application that allows users to retrieve and store recipes.

Application Spec:

- Design a suitable **database schema**
- The user should be able to **summarise recipes** based on chosen attributes
- The summary should be **displayed visually**
- The user should be able to **retrieve a list of recipes** and see **statistics** based on their retrieval, the retrieval should be **filterable** by chosen attributes
- The user should be able to **see or view the full recipe** including method and ingredients either in a separate page or in the same page as the retrieved recipe view.
- The user should be able to **edit and delete recipes**
- Add **user authentication** to the site

User needs:

- I want to be able to login using a username and password of my choosing
- I want to be able to search for existing recipes based on search criteria
- I want to be able to see how many recipes were retrieved based on the search criteria
- I want to be able to view any recipe I choose to
- I want to be able to bookmark a given recipe and save it to my profile
- I want to be able edit any recipe that I choose to bookmark and save it to my profile
- I want to be able to add my own recipes to my profile
- I want to be able to delete recipes from my profile
- I want to be able to publish my own recipes to the public collection of recipes if I choose to
- I want to see a summary all of all recipes in the database, and a summary of all my saved recipes

Scope

Feature Set:

- Login, user registration field.
- Visual display of all recipes in Database for user to see at a glance, pie chart/bar chart showing most popular types of recipes.
- Search field for retrieval of recipes, keyword search/radio buttons for criteria selection
- Pagination on return of recipes in a list
- Summary of returned results, how many returned results etc
- Ability to click into recipe and view full recipe
- Button to save recipes to user profile, ability to create a category for saved recipe
- Button to edit recipe and save to profile, submission of form to DB, deletion of recipe.
- Button linked to user profile, retrieval of user recipes and population onto page based on category.
- Button to publish recipe to public database stream. Not deletable by user at this point.

Structure

MySQL Schema:

USER TABLE	
User_Id	
username: varchar(30) first: varchar(30) last: varchar(30) password: varchar(30)	

RECIPE TABLE	
Recipe_Id	
title: varchar(50) creation_date: Timestamp image: varchar(100) desc: (pk) varchar user_id: Foreign Key	

CUISINE TABLE	
Cuisine_Id	
cuisine: varchar(30) recipe_id: Foreign Key	

HEALTH TABLE	
Calories_Id	
healthy: Boolean moderate: Boolean unhealthy: Boolean recipe_id: Foreign Key	

COURSE TABLE	
Course_Id	
course: varchar(20) recipe_id: Foreign Key	

INGREDIENTS TABLE	
Ingredients_Id	
name: varchar recipe_id: Foreign Key quantity_id: Foreign Key	

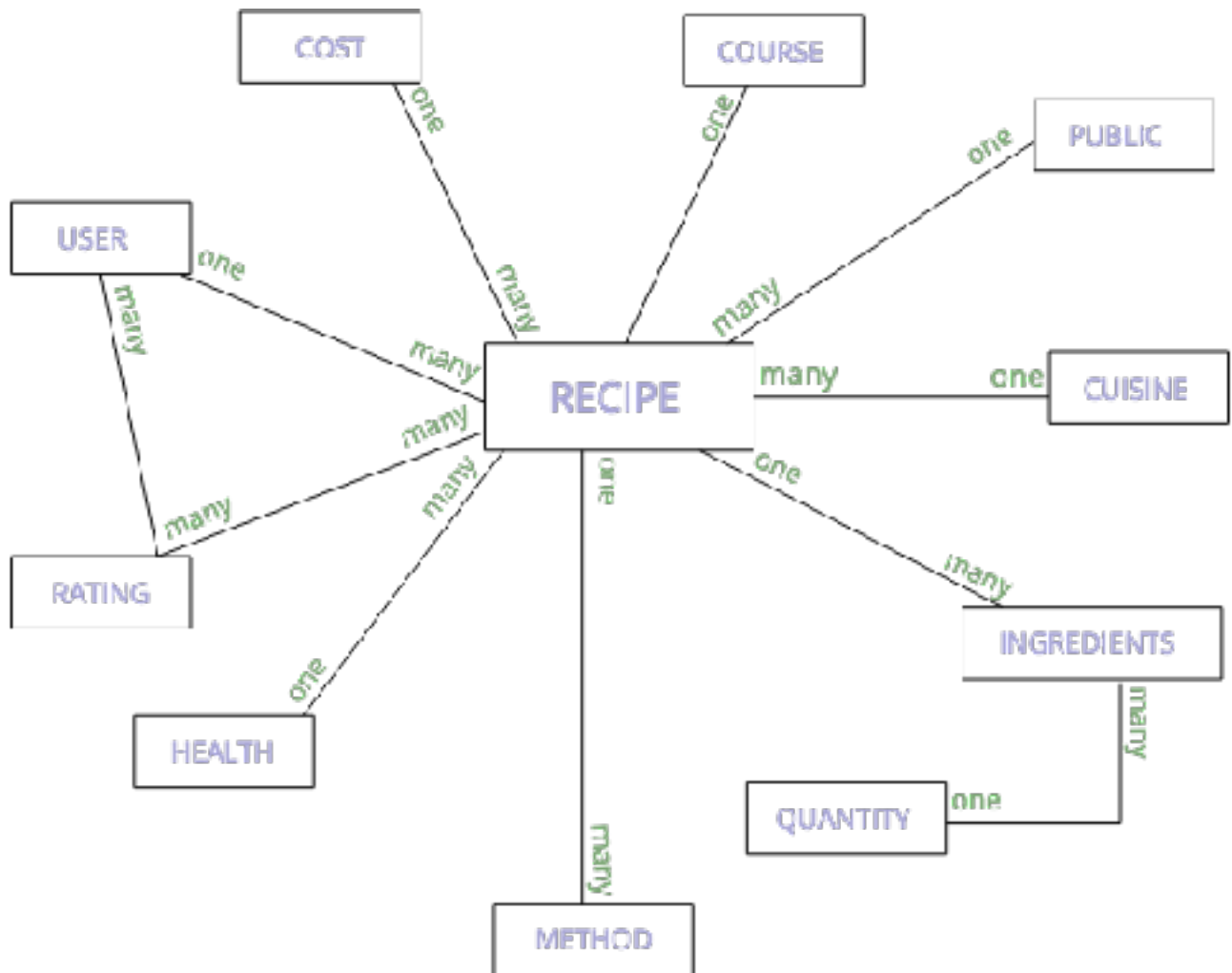
RATING TABLE	
Rating_Id	
rating: int comments: varchar(50) user_id: Foreign Key recipe_id: Foreign Key	

QUANTITY TABLE	
Quantity_Id	
quantity: int unit: varchar	

MAKE PUBLIC TABLE	
Public_Id	
public: Boolean recipe_id: Foreign Key	

COST TABLE	
Cost_Id	
cheap: Boolean moderate: Boolean expensive: Boolean recipe_id: Foreign Key	

METHOD TABLE	
Method_Id	
step_number: int step_description: Text recipe_id: Foreign Key	



CRUD:

Create User Entered Recipes via form:

Form Fields: Recipe Title, Recipe Category, Cuisine, Main Ingredients, Full Ingredients, Method, Cost, Rating, Time.

Read User Entered Recipes :

View Recipes:

Via Main Ingredient Search - returns all results matching main ingredient, filterable.
Via Filters: Cuisine, Rating, Time, Meal Type, Recently added, Saved Recipes etc.

Update Recipe:

Via Form Fields: Recipe Title, Recipe Category, Cuisine, Main Ingredients, Full Ingredients, Method, Cost, Rating, Time.

Delete Recipe:

Delete Recipe based on Recipe Id, only if recipe belongs to logged in user.

Views:**Landing Page:**

- Login text field
- Web Application Logo and blurb about websites uses and features

Create Recipe Page:

- Full form page to create a new recipe.

Edit Recipe Page:

- Full form page with fields pre-populated with data from saved recipe.

Search Pages:User Created Recipes

- Navbar: Home, My Recipe's, Shared Recipes, LogOut
- Search for User Created Recipes input box, search by Ingredient.
- Or search by Saved Recipes, Cuisine or Course.
- Sort results by Recipe Category, Cuisine, Method Type, Main Ingredient, Cost, Alphabetical?
- Option to click to full recipe view from a more digestible version of the returned recipes.
- User can browse through results and save off user recipes they want to bookmark by clicking on a button by each returned result.

Shared Recipes

- Same structure as above but search recipes flagged as shared by any user.

Full Recipe Page:

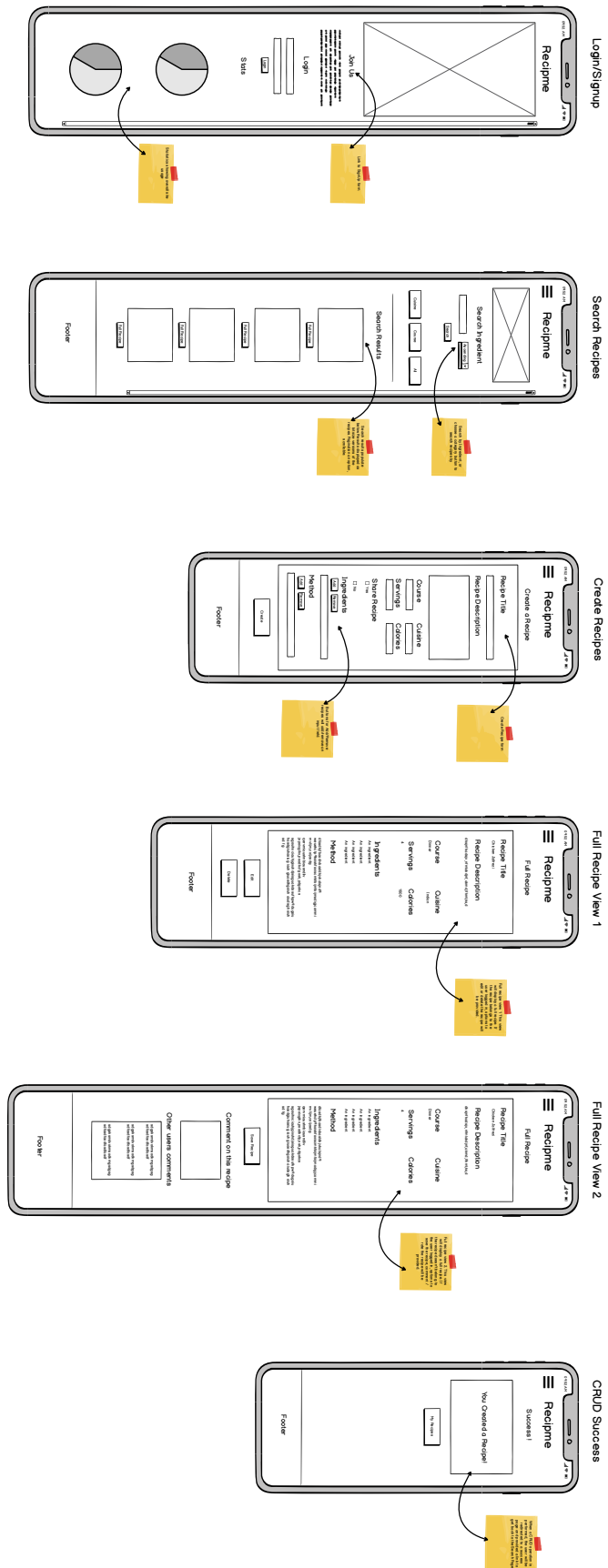
- Display full recipe view.
- If recipe belongs to logged in user, display ability to edit/delete recipe. Display any comments left by other users.
- If recipe doesn't belong to user, display ability to leave a comment and rate the recipe. Also display the save recipe button to save the recipe to the users profile.

Crud Operations Page:


- If a user deletes, creates or edits a recipe. Once the action has been carried out, redirect to a page displaying a success message, and a link back to the my recipe page.

Skeleton

See below wireframes I created before starting to build the front end functionality of the app.



[illegible]


 Create My Recipies Based On The

Recipies

Search Number

Search

Search

Search

Search

Print

[illegible][illegible]

CRUD Success	
Task:	
Order by Recipe Forward List Out	
Recipe	
Forward(s)	
<p>You Cannot Edit Recipe</p>	
<p>Print</p>	
Page	

Surface

I decided again to keep things simple with stylings for this site. I wanted the application to have a light/fresh feel. Taking inspiration from other recipe sites such as Yummly, Hello Fresh and Gousto.

With that in mind I decided to keep the use of colour to a minimum. Using whites and greys with the only colours being used to highlight buttons for UI.

I kept font choices to a minimum. Using one font for the the application title and subtitles, and another for text.

All images are free to use assets and fonts from Google Fonts.

Further Ideas

This application is a demonstration of my ability to push data to and from a MySQL DB using PyMySQL and display it on the front end in a clear and concise manner. I have used HTML, SCSS, Jinja, Flask, MySQL, Python and Javascript to arrive at the outcome. Going forward, to strengthen the application I would like to add the following functionality.

1. Add image upload capability to the recipe creation form. Hosting the data on an Amazon Cloud Storage solution.
2. Give the user the ability to change the number of paginated results.
3. Build a personalised profile page for the user, including profile image and other user details.
4. Be able to filter the returned results by average rating.