

Features

- users can sign into the app with their email and password
- users can create recipes with ingredients and instructions
- recipes can be marked as public or private
- users can view other people's recipes
- ingredients from recipes can be added to user's grocery lists
- users can create their own occasions and assign recipes to occasions

Brainstorming

- Users:
 - User_id
 - User_email
 - User_password
 - first_name
 - last_Name
- Recipes:
 - Recipe_id
 - Recipe author
 - Recipe_name
 - Ingredient_id
 - Instruction content
 - Public or private
- Ingredients
 - Ingredient_id
 - Ingredient_name
- Grocery List
 - grocery_list_id
 - Grocery list author
 - Recipe_id
 - Ingredients from recipe being added
 - Public or private
- Occasions
 - Occasion_id
 - Occasion_name
 - Ingredient_id
 - recipe_id
 - Recipe being assigned to occasion
 - Public or private

Table Ideas

- Users: Account creation and app access
 - User_id
 - User_email
 - User_password
 - first_name
 - last_name
- Recipes: Allows authors to write recipes with ingredients and instructions. Also capable of including images and selecting whether the recipe is public or private.
 - Recipe_id
 - Recipe_author
 - Recipe_name
 - Ingredient_id
 - Instruction_content
 - recipe_image
 - Public_id
 - Private_id
- Ingredients: The ingredients referenced in recipes and grocery list.
 - Ingredient_id
 - ingredient_name
- Grocery List: The grocery list will provide information on what ingredients are necessary for which recipes.
 - grocery_list_id
 - grocery_list_author_id
 - Recipe_id
 - Ingredient_id
 - Public_id
 - Private_id
- Occasions: This table will give a number and name to the users occasions. And let the user add the ingredients and recipes.
 - Occasion_id
 - Occasion_name
 - Instruction_content
 - Ingredient_id
 - recipe_id
 - Public_id
 - Private_id
- Status: With this table we are checking which users are choosing a private or public option for their data.

- Status_id
- Private_id
- Public_id

Relationships

One-to-one: Grocery lists have one user

- user → grocery list (private)

One-to-many: Users can create many recipes; An occasion may be tied to many recipes.

- Users → recipes
- Occasion → recipes

Many-to-many: The recipes, ingredients, status affect many tables. There are many recipes to users. Statuses of public or private to lists. And ingredients fall into many other tables.

- Recipes → users
- Status → Recipes and Grocery List
- Ingredients → Recipes and Grocery List and Occasions

Columns

Recipes

Recipe_id	recipe_author	recipe_name	ingredient_id	instruction_content	img	public_id

Ingredients

ingredient_id	ingredient_name

grocery_list

grocery_list_id	grocery_list_auth_id	recipe_id	ingredients_id

Status

Status_id	public_id

Users

user_id	user_password	user_email	first_name	last_name

Occasions

occasions_id	occasions_name	instruction_content	ingredients_id	recipes_id	public_id

Tables

grocery_list_id	grocery_list_author_id	recipe_id	ingredient_id
1	1	1	2

ingredient_id	ingredient_name
1	eggs
2	milk
3	butter

```

CREATE TABLE users (
    user_id SERIAL PRIMARY KEY,
    user_password VARCHAR(500),
    user_email VARCHAR(255),
    first_name VARCHAR(50),
    last_name VARCHAR(50)
);

CREATE TABLE recipes (
    recipe_id SERIAL PRIMARY KEY,
    recipe_name VARCHAR(50),
    recipe_author INT NOT NULL REFERENCES users(user_id),
    ingredient_id INT NOT NULL REFERENCES ingredients(ingredient_id),
    instruction_content VARCHAR(2000),
    recipe_image VARCHAR(2000),
    public_id INT NOT NULL REFERENCES status(status_id)
);

CREATE TABLE ingredients (
    ingredient_id SERIAL PRIMARY KEY,
    ingredient_name VARCHAR(100)
);

CREATE TABLE grocery_list (
    grocery_list_id SERIAL PRIMARY KEY,
    grocery_list_author_id INT NOT NULL REFERENCES users(user_id),
    recipe_id INT NOT NULL REFERENCES recipes(recipe_id),
    ingredient_id INT NOT NULL REFERENCES ingredients(ingredient_id),
    public_id INT NOT NULL REFERENCES status(status_id)
);

CREATE TABLE occasions (
    occasions_id SERIAL PRIMARY KEY,
    occasions_name VARCHAR(200),
    instruction_content VARCHAR(2000),
    ingredients_id INT NOT NULL REFERENCES ingredients(ingredient_id),

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    recipes_id INT NOT NULL REFERENCES recipes(recipe_id),  
    public_id INT NOT NULL REFERENCES status(status_id)  
);
```

```
CREATE TABLE status (  
    status_id SERIAL PRIMARY KEY,  
    public_id boolean  
);
```