Summary

Create a recipe creating/sharing and grocery list app

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_password
  - User_email
  - First_name
  - Last_name
- Recipes:
  - Recipe_id
  - Recipe_name
  - Recipe_instructions
  - Recipe_Ingredients
  - User who made the recipe
  - Private or public (boolean)
- Fav recipes:
  - Recipe_id
  - author_id
- Ingredients:
  - Ingredient_id
  - Ingredient_name
- Occasions:

    - Occasion_id
    - Recipe for the occasion
    - Creator of recipe

Table Ideas:

Users Table: Hold details about the Users

- user_id
- user_password
- user_email
- first_name
- last_name

Recipes: Hold details about the Recipes

- Recipe_id
- Recipe_name
- Recipe_instructions
- Recipe_Ingredientsingredie
- Author_id
- Private or public (boolean)

Fav recipes:

    - Recipe_id
    - author_id

Ingredients: Hold details about the ingredients

- Ingredient_id
- Ingredient_name

Occasions: Hold details about the occasions

- Occasion_id
- Recipe_id
- Author_id
- Occasions_details

Relationships:

- **One to One**
    - User => password - user only has one password
    - User => email - user only has one email
    - User => fav list - user only has one unique fav list

- **One to Many**
    - User => Recipes - user can have multiple recipes
    - Recipes => Ingredients - recipes can have multiple ingredients
    - Fav recipe => recipes - fave recipes can have multiple recipes
- **Many to Many**
    - Occasions ⇔ Users - multiple users have multiple occasions
    - Occasions ⇔ Recipes - multiple recipes have multiple occasions

```
CREATE TABLE users(
user_id SERIAL PRIMARY KEY,
user_email VARCHAR(250),
user_password VARCHAR(500),
first_name VARCHAR(50),
last_name VARCHAR(50)
);

CREATE TABLE ingredients (
ingredient_id SERIAL PRIMARY KEY,
ingredient_name VARCHAR(500)
);

CREATE TABLE recipe (
recipe_id SERIAL PRIMARY KEY,
recipe_name VARCHAR(250),
recipe_instructions VARCHAR (2000),
recipe_ingredients INT NOT NULL REFERENCES
ingredients(ingredient_id),
author_id INT NOT NULL REFERENCES users(user_id),
privacy BOOLEAN
);

CREATE TABLE fav_recipe (
author_id INT NOT NULL REFERENCES users(user_id),
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recipe_id INT NOT NULL REFERENCES recipe(recipe_id)
);

CREATE TABLE grocery (
grocery_id SERIAL PRIMARY KEY,
author_id INT NOT NULL REFERENCES users(user_id),
ingredient_id INT NOT NULL REFERENCES ingredients(ingredient_id),
ingredient_name INT NOT NULL REFERENCES
ingredients(ingredient_name)
);


CREATE TABLE occasions (
occasion_id SERIAL PRIMARY KEY,
recipe_id INT NOT NULL REFERENCES recipe(recipe_id),
author_id INT NOT NULL REFERENCES users(user_id),
occasions_details VARCHAR(2000)
);
```