Summary

We are going to plan the data model for a basic 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
- Users can add photos to recipes
- 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
- Occasions:
  - Occasion_id
  - Occasion_name
  - Post_author reference user_id
  - Occasion_recipe reference post_id
- Posts:
  - Post_id
  - Photo
  - Recipe_instructions

    - Recipe_ingredients
    - Post_author reference user_id
- Grocery List:
    - GroceryList_id
    - List_author reference user_id
    - Recipe_ingredients reference post_id
    - Added_ingredients

Table Ideas:

Users Table:
Table containing user information.
- User_id
- User_password
- User_email
- First_name
- Last_name

Occasions:
Table containing groups of recipes.
- Occasion_id
- Occasion_name
- Post_author reference user_id
- Occasion_recipe reference post_id

Posts:
Table containing user recipes.
- Post_id
- Photo
- Recipe_instructions
- Recipe_ingredients
- Post_author reference user_id

Grocery List:

Table containing ingredients pulled from recipes and compiled into a list.

- GroceryList_id
- List_author reference user_id
- Recipe_ingredients reference post_id
- Added_ingredients

Relationships:

- **One to One**
  None
- **One to Many**
  - User => Posts(user can have many posts, but posts belong to individual users)
  - User => Occasions(User can make many occasions but Occasions can only be made by one user)
  - User => GroceryList(user can make many grocery lists but each grocery list can only have one user)
- **Many to Many**
  - Posts ⇔ Occasions

```
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 occasions (
 occasion_id SERIAL PRIMARY KEY,
 occasion_name VARCHAR(50),
 post_author INT NOT NULL REFERENCES users(user_id),
```

```
 occasion_recipe INT NOT NULL REFERENCES posts(post_id)
);

CREATE TABLE posts (
post_id SERIAL PRIMARY KEY,
photo VARCHAR(2000),
recipe_instructions VARCHAR(2000),
recipe_ingredients VARCHAR(100),
post_author INT NOT NULL REFERENCES users(user_id)
);

CREATE TABLE groceryList(
 GroceryList_id SERIAL PRIMARY KEY,
 list_author INT NOT NULL REFERENCES users(user_id),
 recipe_ingredients VARCHAR(100),
 added_ingredients VARCHAR(100)
);
```