Data Modeling

We want to create a recipe creating/sharing and grocery list app. You'll be planning out what tables we'll need, what information they'll store, and how the data will relate to each other.

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

Users table:

- User_id
- User_name
- User_password
- User_email
-

Recipes table:

- recipest_id
- Recipe name
- Recipe ingredients
- Recipe instructions
- Recipe visibility

Occasion table

- Occasion id
- Occasion name
- Recipe name
- Recipe ingredients
- Recipe instructions

Grocery list table

- Grocery list id
- Grocery list name
- Grocery list items

REALTIONSHIPS:

One to one

User id => user
User name +> user
User email => user
User password=> user

One to many

User => grocery lists
User => occasions

Many to many

Recipes ⇔ users

```
CREATE TABLE users (
user_id SERIAL PRIMARY KEY,
user_name VARCHAR(50) NOT NULL,
user_password VARCHAR(500) NOT NULL,
user_email VARCHAR(100) NOT NULL,
user_recipes VARCHAR(500)
user_grocery_list VARCHAR(500)
-- user_occasion
);

CREATE TABLE recipes (
recipes_id SERIAL PRIMARY KEY,
recipes_name VARCHAR(100) NOT NULL,
recipes_ingredients VARCHAR(1000) NOT NULL,
recipes_instructions VARCHAR(1000) NOT NULL,
recipe_public BOOLEAN
);
```

```
CREATE TABLE grocery_list (
grocery_list_id SERIAL PRIMARY KEY,
grocery_list_name VARCHAR(100),
grocery_list_item INT NOT NULL REFERENCES recipes(recipes_ingredients)
);

CREATE TABLE occasions (
occasions_id SERIAL PRIMARY KEY,
occasions_name INT NOT NULL recipes(recipes_id)
);



CREATE TABLE users (
user_id SERIAL PRIMARY KEY,
user_name VARCHAR(50) NOT NULL,
user_password VARCHAR(500) NOT NULL,
user_email VARCHAR(100) NOT NULL,
user_recipes VARCHAR(500) REFERENCES recipes(recipes_id),
user_grocery_list VARCHAR(500) REFERENCES grocery_list(grocery_list_id),
user_occasion VARCHAR(100) REFERENCES occasions(occasions_id)
);

CREATE TABLE recipes (
recipes_id SERIAL PRIMARY KEY,
recipes_name VARCHAR(100) NOT NULL,
recipes_ingredients VARCHAR(1000) NOT NULL,
recipes_instructions VARCHAR(1000) NOT NULL,
recipe_public BOOLEAN
);

CREATE TABLE grocery_list (
grocery_list_id SERIAL PRIMARY KEY,
grocery_list_name VARCHAR(100),
grocery_list_item VARCHAR(500) REFERENCES recipes(recipes_ingredients)
);

CREATE TABLE occasions (
occasions_id SERIAL PRIMARY KEY,
occasions_name VARCHAR (100) NOT NULL ,
occasions_recipe VARCHAR(100) REFERENCES recipes(recipes_id)
);
```