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
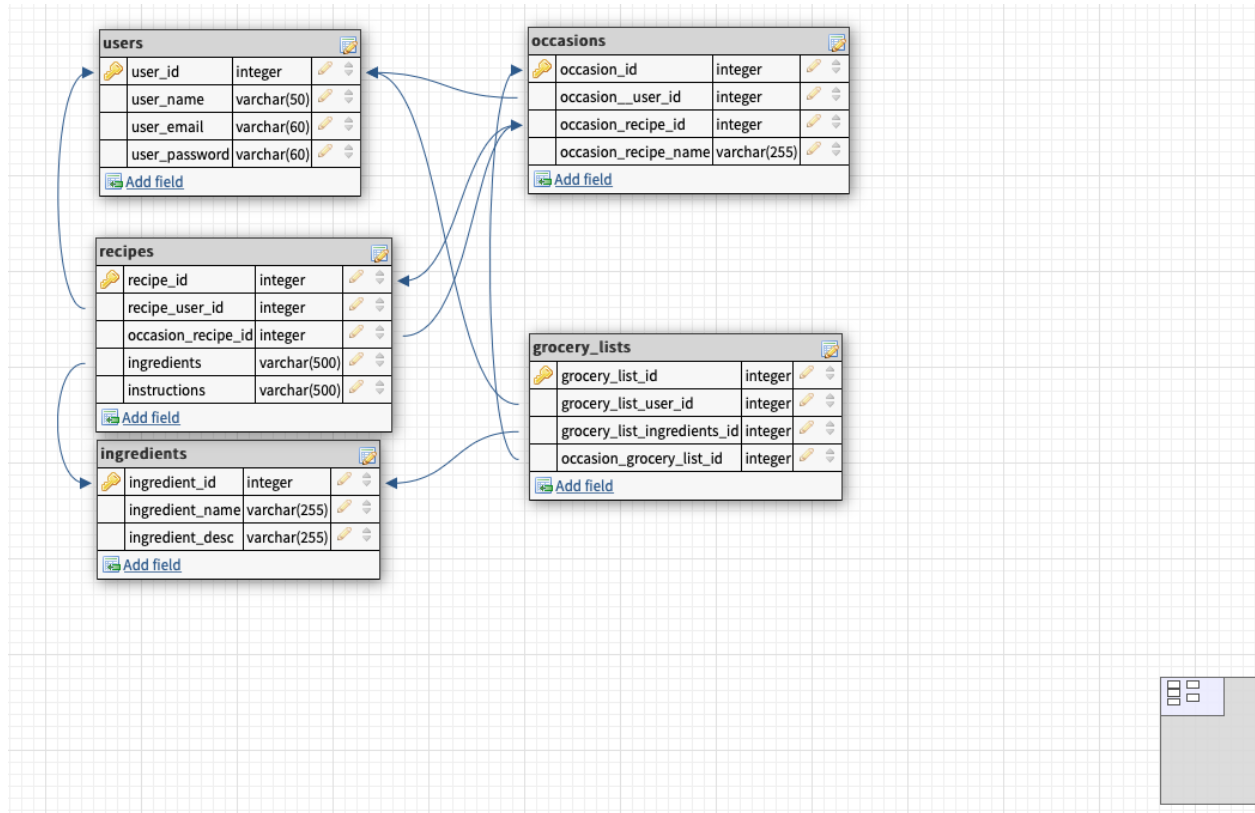

Brainstorm list-
- User_email
- User_password
- User_name
- User_recipes
- Recipe_privacy
- Recipe_ingredient_list
- Recipe_instruction_list
- Ingredient_list
- Grocery_ingredient_list
- Occasion_list
- Occasion_recipe_list

Table Ideas-
- User - stores data about the user(email, password, name)
- Recipes - stores recipes and associates them with ingredients and a user and determines their privacy settings
- Ingredients - table of ingredients, can be linked to recipes
- Grocery List - creates list based on user_id and needed ingredients for recipes
- Occasion list - list of occasions associated with user that can pull ingredient lists for occasion specific recipes

Relationships
- One to many
    - User_id to recipes/grocery lists/occasions
    - Recipes to ingredients/occasions/grocery lists
    - Ingredients to recipes/grocery lists
- One to one
    - Occasions to users
- Many to many

**users**

| user_id | integer |
| user_name | varchar(50) |
| user_email | varchar(60) |
| user_password | varchar(60) |

Add field

**occasions**

| occasion_id | integer |
| occasion__user_id | integer |
| occasion_recipe_id | integer |
| occasion_recipe_name | varchar(255) |

Add field

**recipes**

| recipe_id | integer |
| recipe_user_id | integer |
| occasion_recipe_id | integer |
| ingredients | varchar(500) |
| instructions | varchar(500) |

Add field

**grocery_lists**

| grocery_list_id | integer |
| grocery_list_user_id | integer |
| grocery_list_ingredients_id | integer |
| occasion_grocery_list_id | integer |

Add field

**ingredients**

| ingredient_id | integer |
| ingredient_name | varchar(255) |
| ingredient_desc | varchar(255) |

Add field

```
CREATE TABLE users(
        user_id SERIAL PRIMARY KEY,
        user_name VARCHAR(50),
        user_email VARCHAR(60),
         user_password VARCHAR(30)
 );

 CREATE TABLE recipes(
        recipe_id SERIAL PRIMARY KEY,
 recipe_user_id NOT NULL REFERENCES users(user_id),
 occasion_recipe_id NOT NULL REFERENCES occasions(occasion_id),
 ingredients VARCHAR(500),
 instructions VARCHAR(500)
 );


 CREATE TABLE ingredients(
        ingredient_id SERIAL PRIMARY KEY,
 ingredient_name VARCHAR(50),
 ingredient_desc VARCHAR(40)
 );
```

```sql
CREATE TABLE occasions(
        occasion_id SERIAL PRIMARY KEY,
occasion_user_id NOT NULL REFERENCES users(user_id),
occasion_recipe_id NOT NULL REFERENCES recipes(recipe_id),
occasion_recipe_name VARCHAR(50)
);

CREATE TABLE grocery_lists(
        grocery_list_id SERIAL PRIMARY KEY,
grocery_list_user_id NOT NULL REFERENCES users(user_id),
occasion_recipe_id NOT NULL REFERENCES ingredients(ingredient_id),
occasion_grocery_list_id NOT NULL REFERENCES occasions(occasion_id)
);
```