

## Brainstorming:

users

recipes

grocery list

ingredients

search function

## Table Ideas/Columns:

User

-user id int

-name varchar

-email varchar

-password varchar

-recipes

-created

-public

-grocery list

recipes

-recipe id int

-recipe name varchar

-instructions text

-ingredients

-measurements float

-grocery list

-public bool

-food tag

-occasions

grocery list

-grocery user id int

-ingredients

-amounts float

ingredients

-food id

-food name

-food tag

-dietary information

search

-ingredients

-recipes

-tag types

occasions

-date

-time

-recipes

food tags

-tag id

-name type

Relations:

one to one

-user to grocery list    each user only has one grocery list and each grocery list only has one user

one to many

-user to occasions each user has many unique occasions but each occasion is decided by the user

-user to created recipes

-grocery list to recipes

-grocery list to ingredients

-search to recipes

-search to ingredients

-search to food tag

many to many

-occasions to recipes each occasion can have many recipes and each recipe can be used in many occasions

-users to public recipes

-recipes to ingredients

-recipes to food tag

-ingredients to food tag

```
CREATE TABLE user_data(  
    user_id SERIAL PRIMARY KEY,  
    u_name VARCHAR(20),  
    email VARCHAR(50),  
    password VARCHAR(36)  
);
```

```
CREATE TABLE grocery_list(  
    grocery_list_id SERIAL PRIMARY KEY,  
    amount float,  
    user_id INT NOT NULL REFERENCES user_data(user_id)  
);
```

```
CREATE TABLE recipes(  
    recipe_id SERIAL PRIMARY KEY,  
    r_name VARCHAR(20),  
    instructions TEXT,  
    public BOOL DEFAULT False,  
    grocery_list_id INT NOT NULL REFERENCES grocery_list(grocery_list_id),  
    creator_id INT NOT NULL REFERENCES user_data(user_id)  
);
```

```
CREATE TABLE occasion(  
    occasions_id SERIAL PRIMARY KEY,  
    o_name VARCHAR(20),  
    o_date DATE,  
    o_time TIME,  
    user_id INT NOT NULL REFERENCES user_data(user_id)  
);
```

```
CREATE TABLE tags(  
    tag_id SERIAL PRIMARY KEY,  
    t_name VARCHAR(20)  
);
```

```
CREATE TABLE ingredients(  
    ingredient_id SERIAL PRIMARY KEY,  
    i_name VARCHAR(20),  
    diet_info TEXT,  
    grocery_list INT  
);
```

```
CREATE TABLE recipesingredients(  
    ingredient_id INT NOT NULL REFERENCES ingredients(ingredient_id),  
    recipe_id INT NOT NULL REFERENCES recipes(recipe_id)  
);
```

```
CREATE TABLE publicrecipes(  
    recipe_id INT NOT NULL REFERENCES recipes(recipe_id),  
    user_id INT NOT NULL REFERENCES user_data(user_id)  
);
```

```
CREATE TABLE recipetag(  
    recipe_id INT NOT NULL REFERENCES recipes(recipe_id),  
    tag_id INT NOT NULL REFERENCES tags(tag_id)  
);
```

```
CREATE TABLE occasionrecipe(  

```

```
recipe_id INT NOT NULL REFERENCES recipes(recipe_id),  
occasions_id INT NOT NULL REFERENCES occasion(occasions_id)  
);
```

```
CREATE TABLE ingredienttag(  
ingredient_id INT NOT NULL REFERENCES ingredients(ingredient_id),  
tag_id INT NOT NULL REFERENCES tags(tag_id)  
);
```

```
INSERT INTO user_data (u_name, email, password)  
VALUES ('Scott Mottola','sjmottola@gmail.com','password1'),  
('Steven Mottola','smottola18@yahoo.com','password2'),  
('Andrew Mottola','andrewmottola@hotmail.com','password3');
```

```
SELECT * FROM user_data;
```