

# Part 1

## Step 1

Brainstorming - things to keep track of

- Email
- Passwords
- Username / name
- Recipes
- Ingredients
- Instructions
- Public or private
- Grocery list
- Occasions - id
- Search recipes
- Photos

## Step 2

Table Ideas

**Users** - Stores the users login info, id, and username

- user\_id
- email
- password
- username

**RecipePosts** - hold info about the recipe, including: 1 - M

- rp\_id
- (user\_id)
- name
- photo
- public

**Photos**

- url
- (rp\_id) - RecipePosts

**M - RecipeIngredients**

- (rp\_id) - RecipePosts
- (food\_id) - Ingredients

**Ingredients** - holds all the food possible : M - M

- food\_name

- food\_id

A - **GroceryIngredients** - hold info about the recipe, including: 1 - M

- gi\_id
- (grocery\_id)
- (food\_id)

**Groceries** - hold info about the recipe, including: 1 - M

- (user\_id) - Users
- (gi\_id) - GroceryIngredients
- Grocery\_id

A - **OccasionsRecipe** - hold info about the recipe, including: 1 - M

- oc\_id
- (rp\_id) - Users
- (occasions\_id) - Occasions

**Occasions** - hold info about the recipe, including: 1 - M

- occasions\_id
- Occasions\_name
- (user\_id)

## **Step 3**

Relationships

**one-one**

- RecipePosts - Photos
- Groceries - Ingredients

**one-many**

- Users

# **Part 2**

## **Step 1**

## **Step 2**

### **Users**

- user\_id - *uniquely identify the user - SERIAL - unique id*
- email - *allow user to sign in - VARCHAR - letters and numbers*
- password - *keep user account secure - VARCHAR - letters and numbers*
- username - *allow user to find other users - VARCHAR - letters and numbers*

### **RecipePosts**

- rp\_id - *uniquely identify the recipe post - SERIAL - unique id*
- (user\_id)
- name - *identify the recipe - VARCHAR - letters and numbers*
- photo - *show photo of finished recipe - VARCHAR - letters and numbers*
- public - *allows user to decide to make it public - BOOLEAN*

### **Photos**

- url - *unique url to display the image - VARCHAR - letters and numbers*
- (rp\_id)

### **M - RecipeIngredients**

- (rp\_id) - RecipePosts
- (food\_id) - Ingredients

### **Ingredients**

- food\_name - *identify the food - VARCHAR - letters and numbers*
- food\_id - *uniquely identify the food/ingredient - SERIAL - unique id*

### **A - GroceriesIngredients**

- gi\_id - *uniquely identify the grocery ingredients - SERIAL - unique id*
- (grocery\_id)
- (food\_id)

### **Groceries**

- (user\_id)
- (gi\_id)
- Grocery\_id - *uniquely identify the grocery list - SERIAL - unique id*

### **A - OccasionsRecipe**

- oc\_id - *uniquely identify the Occasions Recipe - SERIAL - unique id*
- (rp\_id) - Users
- (occasions\_id)

### **Occasions** - hold info about the recipe, including: 1 - M

- occasions\_id - *uniquely identify the occasion - SERIAL - unique id*

- Occasions\_name - *identify the name of the occasion* - VARCHAR - letters and numbers
- (user\_id)

```
CREATE TABLE users (  
    user_id SERIAL PRIMARY KEY,  
    email VARCHAR(20),  
    password VARCHAR(20),  
    username VARCHAR(20)  
);  
  
CREATE TABLE ingredients (  
    i_id SERIAL PRIMARY KEY,  
    name VARCHAR(20)  
);  
  
CREATE TABLE occasions (  
    occ_id SERIAL PRIMARY KEY,  
    user_id INT NOT NULL REFERENCES users(user_id) ,  
    name VARCHAR(20)  
);  
  
CREATE TABLE recipe_posts (  
    rp_id SERIAL PRIMARY KEY,  
    user_id INT NOT NULL REFERENCES users(user_id) ,  
    title VARCHAR(20),  
    public BOOLEAN,  
);  
  
CREATE TABLE groceries (  
    gr_id SERIAL PRIMARY KEY,  
    user_id INT NOT NULL REFERENCES users(user_id)  
);  
  
CREATE TABLE groceries_ingredients (  
    gi_id SERIAL PRIMARY KEY,  
    user_id INT NOT NULL REFERENCES users(user_id) ,  
    gr_id INT NOT NULL REFERENCES groceries(gr_id) ,  
    i_id INT NOT NULL REFERENCES ingredients(i_id)  
);
```

```
CREATE TABLE recipe_ingredients (  
    ri_id SERIAL PRIMARY KEY,  
    rp_id INT NOT NULL REFERENCES recipe_posts(rp_id) ,  
    i_id INT NOT NULL REFERENCES ingredients(i_id) ,  
);  
  
CREATE TABLE occasions_recipe (  
    or_id SERIAL PRIMARY KEY,  
    rp_id INT NOT NULL REFERENCES recipe_posts(rp_id) ,  
    occ_id INT NOT NULL REFERENCES occasions(occ_id) ,  
);  
  
CREATE TABLE photos (  
    url VARCHAR(255) ,  
    rp_id INT NOT NULL REFERENCES recipe_posts(rp_id) ,  
);
```