Brainstorming

1. Keep track of emails and passwords for each user
2. What recipes they save
3. Feed with different recipes
4. Ingredients in their grocery list
5. Occasions that are coming up

Table Ideas

1. User - will have an email and password section (possibly linked to saved recipes) maybe linked to their occasions
2. Recipe - instructions, references a user that has saved it,
3. Ingredients - will have an id section and a text area
4. Grocery List - reference ingredients reference user
5. Occasion - will reference recipes reference user
6. UserRecipes(saved recipes) - connect users and recipes to each other

Relationships

One-to-one

- Recipe to Ingredients - Each specific recipe will only have one specific set of ingredients that apply to it and vice versa as well.
- User to Grocery List - Each user will only have one grocery list and each grocery list can only have one user

One-to-many

- User to Occasion - Each user can have multiple occasions but each occasion will only belong to one user

Many-to-many

- User to Recipe - Each user can save many recipes, each recipe can be saved by many users

Columns

Each table has a unique id with serial type so that they can be easily distinguished from each other.

Users

Email - Because we want to store each user's email. VarChar(255) because it will possibly include special characters numbers and strings
Password - Because we want to store each user's password. VarChar(100) because it will possibly include special characters numbers and strings
Username - same reason as the two above
Profile_pic_url - varchar(500) added this to allow users to have profile pic varchar because the img will be a url.

Recipe
Instructions - This is a text section with instructions on how to make the food.
Linked to ingredients_id - to get the ingredients needed for the food.
Picture_url - will be VARCHAR(500) to show the food you will make.

SavedRecipes
Linked to user_id - so the user can save recipes
Linked to recipe_id - so the user can get the information about the recipe

Ingredients
List of ingredients is just a text field so that the list of ingredients and their quantities can all be entered in and stored.

Occasions
Linked to user_id - So the user can have multiple Occasions
Linked to recipe_id - So the user can save a recipe to that occasion
Title - title of the occasion

Grocery list
Connected to the user id and the recipe_id so that a specific user can add ingredients from within a specific recipe to their list.
Used integer types on both because the id's from the other tables will be integers.

Create Tables

```
CREATE TABLE users(
id SERIAL PRIMARY KEY,
email VARCHAR(255),
password VARCHAR(100),
username VARCHAR(100),
profile_pic_url VARCHAR(500)
);

CREATE TABLE ingredients(
id SERIAL PRIMARY KEY,
list_ingredients TEXT
);

CREATE TABLE recipe(
id SERIAL PRIMARY KEY,
instructions TEXT,
ingredient_id INTEGER NOT NULL  REFERENCES ingredients(id)
);
```

```
CREATE TABLE occasion(
id SERIAL PRIMARY KEY,
user_id INTEGER NOT NULL REFERENCES users(id),
recipe_id INTEGER NOT NULL REFERENCES recipe(id),
title VARCHAR(100)
);

CREATE TABLE grocerylist(
id SERIAL PRIMARY KEY,
user_id INTEGER NOT NULL REFERENCES users(id),
recipe_id INTEGER NOT NULL REFERENCES recipe(id)
);

CREATE TABLE saved_recipes(
id SERIAL PRIMARY KEY,
user_id INTEGER NOT NULL REFERENCES users(id),
recipe_id INTEGER NOT NULL REFERENCES recipe(id)
);

INSERT INTO users (email,password,username,profile_pic_url)
VALUES ('www.getwreked@gmail.com','password','yo',’www.pic.jpg’);

INSERT INTO ingredients(list_ingredients)
VALUES ('1/4 cup water,2 and 1/4 cup sugar')

INSERT INTO recipe(ingredient_id,instructions)
VALUES (1,'always cook with some tomatoes on hand')
```