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

Brainstorming:

User_name,
Password,
Users

Ingredients
Instructions
Recipes

public/private

Grocerylist

Occasions

Table ideas:

Users: user info, each row is a user
Recipes: recipe info, each row is a post
public: public info, each row will have public which will be a boolean value
Grocery list: grocery info, each row is a name of a grocery item
Occasion: occasion info, each row is an occasion
Ingredients: ingredients info, each row is an ingredient
Instructions: instruction info, each row are instructions

Note that i actually realized instructions was not a necessary table

Relationships:
One-One:
recipes/public
instructions/recipes

I chose these because the instructions and public should only exist in the recipes table

One-Many:
users/occasions
users/grocerylist

I chose these because the user can make multiple occasions and multiple grocery lists

Many-Many:
ingredients/grocerylists
users/recipes
I chose these because many users can access many recipes and
multiple ingredient lists can be added to multiple grocery lists

Columns:

Users:
user_id SERIAL PRIMARY KEY,
Username VARCHAR(25),
Password VARCHAR(25),
email TEXT

Recipes:
Recipe_id SERIAL PRIMARY KEY,
User_id INT NOT NULL REFERENCES users(user_id),
Name VARCHAR(25),
Ingredients_id INT NOT NULL REFERENCES
ingredients(ingredients_id),
Instructions_id INT NOT NULL REFERENCES
instructions(instructions_id),
Public_id INT NOT NULL REFERENCES public(public_id)

Ingredients:
First REQUIRE VARCHAR
Second REQUIRE VARCHAR
Third VARCHAR
Fourth VARCHAR

Fifth VARCHAR

Instructions:
Steps TEXT
Cook_hours FLOAT
Oven_heat INT

Grocerylist:
Grocery_id SERIAL PRIMARY KEY
Ingredients_id INT NOT NULL REFERENCES
ingredients(ingredients_id)
User_id INT NOT NULL REFERENCES users(user_id)

Public:
Public_id SERIAL PRIMARY KEY
Is_public BOOLEAN

Occasions:
Occasions_id SERIAL PRIMARY KEY
Recipe_id INT NOT NULL REFERENCES recipes(recipe_id)
User_id INT NOT NULL REFERENCES users(user_id)