Brainstorming:

Create Account - Email, Password, Primary Serial Key
Create Recipes - Ingredients and instruction reference account id and Grocery list
Share Recipes - Public, Private, view others recipes Boolean
Grocery List - Ingredients reference account ID and Recipes

Table Ideas:
Account - this table will hold the email and password for each account, all other tables will reference this table
Recipes - this table will hold the ingredients and instruction
Sharing Recipes - Any one recipe can be shared within another user.

One to One: email and password

One to Many: Grocery list, ingredients

Many to Many: Sharing Recipes to Users
Columns:
User -
Each user will have an email and password, We need to store this information so that the User can access their account with their email and password.

Recipe -
Ingredients and Instructions are stored in here because thats all we need in a recipe, creates the data stored so we can access the ingredients and instructions whenever we need.

Grocery -
The ingredients data references the ingredients needed in the recipe table, we store this data in the grocery list so that the user can access the ingredients need for the recipe easier.

Share Recipe -
Sharing a recipe references all the three different tables because we can share any information that we need to among the three fields.

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

```sql
CREATE TABLE users (
  user_id SERIAL PRIMARY KEY,
  password TEXT,
  email VARCHAR(50)
);

CREATE TABLE recipe (
  recipe_id SERIAL PRIMARY KEY,
  ingredients TEXT,
  instructions TEXT,
  user_id INTEGER REFERENCES users(user_id)
);

CREATE TABLE grocery (
  grocery_id SERIAL PRIMARY KEY,
  ingredients TEXT REFERENCES recipe(ingredients)
);

CREATE TABLE share (
  share_id SERIAL PRIMARY KEY,
  user_id INTEGER REFERENCES users(user_id),
  recipe_id INTEGER REFERENCES recipe(recipe_id),
  grocery_id INTEGER REFERENCES grocery(grocery_id)
);
```