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

- username
- password
- email
- first name
- last name
- recipes
- grocery list
- occasion, event

Tables:

Users
- user email
- username
- user password
- user first name
- user last name

Recipes
- Author of recipe
- recipe id
- recipe name
- list ingredients
- instruction
- is private (boolean)

Grocery list:
- recipe id
- author id

Occasion event
- recipe id
- author id

Relationships:
- one to one
  - users ===> Grocery list
- one to many
  - users ===> Recipes
- many to many
  - users ===> Occasion event
  - recipes ===> Occasion event

```
CREATE TABLE users (
 user_id SERIAL PRIMARY KEY,
 user_email VARCHAR(50),
 username VARCHAR(50),
 user_password VARCHAR(500),
 user_firstname VARCHAR(50),
 user_lastname VARCHAR(50),
 recipe_id INT NOT NULL REFERENCES recipes(recipe_id),
);

CREATE TABLE recipes (
 recipe_id SERIAL PRIMARY KEY,
 author_id INT NOT NULL REFERENCES users(user_id),
 recipe_name VARCHAR(100),
 list_ingredients VARCHAR(1000),
 instruction VARCHAR(1000),
 is_private BOOLEAN
);

CREATE TABLE grocery_lists (
 list_id SERIAL PRIMARY KEY,
 recipe_id INT NOT NULL REFERENCES recipes(recipe_id),
 author_id INT NOT NULL REFERENCES users(user_id)
);

CREATE TABLE occasion_event (
 event_id SERIAL PRIMARY KEY,
 recipe_id INT NOT NULL REFERENCES recipes(recipe_id),
 author_id INT NOT NULL REFERENCES users(user_id)
);
```