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

Users can use their own recipes that they have saved and can also share if they want too.

Table ideas

Information
- **user_id**
- **username**
- **email_address**
- **password**
- **user_password_id**
- **user_password**

Recipes
- **recipe_id**
- **recipe_ingredients**
- **user_id**

- **public**
- **Private**

Recipe info
- **recipe_ingredients**
- **user_id**
- **Recipe_text**

Grocery list
- **recipe_ingredients**
- **grocery_text**
- **recipe_id**

Create/Assign
- **create_id**
- **assign_id**
- **User_id**

Relationships

One-to-one =>
- **Grocery => recipe_ingredients**
  - **A user can add ingredients to the grocery list**

One-to-many =>
- **Users => recipe**
  - **A user can have access to their recipes**

Many-to-many =>
- **Recipe => user**
  - **A user can have access to others recipes**

```sql
CREATE TABLE users(
  user_id SERIAL PRIMARY KEY,
  username VARCHAR(30),
  email_address VARCHAR(50)
);

CREATE TABLE user_password(
  user_password_id SERIAL PRIMARY KEY,
  user_id INT NOT NULL REFERENCES users(user_id),
  password VARCHAR(50)
);

CREATE TABLE recipe(
  recipe_id SERIAL PRIMARY KEY,
  user_id INT NOT NULL REFERENCES users(user_id),
  recipe_ingredients VARCHAR(1000),
  private BOOLEAN
);

CREATE TABLE recipe_info(
  recipe_ingredients SERIAL PRIMARY KEY,
  recipe_id INT NOT NULL REFERENCES recipe(recipe_id),
  recipe_text VARCHAR(1000)
);

CREATE TABLE grocery(
  grocery_id SERIAL PRIMARY KEY,
  grocery INT NOT NULL REFERENCES recipe(recipe_id),
  grocery_text VARCHAR(1000)
);

CREATE TABLE creates(
```

```
  create_id SERIAL PRIMARY KEY,
  user_id INT NOT NULL REFERENCES users(user_id)
);

CREATE TABLE assign(
  assign_id SERIAL PRIMARY KEY,
  user_id INT NOT NULL REFERENCES users(user_id)
);
```