- 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/data needed.

- User email
- User name
- User password
- User picture
- Contact info
- User recipes
- Recipe ingredients
- Recipe instructions
- Recipe Privacy
- User_id
- Public recipes
- Ingredients
- Grocery list
- Occasions
- Post recipe

Tables:

User table: This table will hold information about the user information and each row will be an individual user.

- User_id
- Email
- password
- Picture
- Contact info
- User_recipes
- Favorite recipes

Recipes: This table will hold information about the recipes that users can create and each row will hold a new ingredient.

- Ingredient
- Instruction
- Picture
- Genre of food

- Private boolean
- Author of recipe

Grocery list: This table will hold the information of the grocery list that the user will create by adding ingredients into a new row.

- User_id
- Recipe ingredients

Groups: This table will be a list of groups of food genres that hold individual users and each row will be an individual group.

- Group_id
- Name
- Genre of food
- users

GroupUser: This table will hold the information of what users are in a group.

- User_id
- group_id

Occasions: This table will be a list of occasions in which recipes for food genres are displayed in the rows.

- User_id
- Occasion_id
- Recipes
- Create occasion recipe
- Food genres

Food Genre: This table will hold information about the different food genres and are displayed in the rows.

- Recipe
- User_id
- Group
- occasion

Relationships:

- One to One
- One to many
  - User ⇒ recipes (one user can have many recipes)
  - Ingredients ⇒ recipes(one ingredient can be used for many recipes)
  - Genres ⇒ recipes(one recipe will be a part a genre, many recipes to each genre)

- Many to Many
    Recipes ⇒ Ingredients(many recipes can use many different ingredients)
    Occasion ⇒ recipes(many occasions can have many recipes)
    Occasion ⇒ Users(many occasions can have many users)

Columns

```
CREATE TABLE users(
  user_id SERIAL PRIMARY KEY,
  user_email VARCHAR(50),
  user_password VARCHAR(20),
  user_picture TEXT,
  contact_info VARCHAR(50),
  user_recipes INT NOT NULL UNIQUE REFERENCES recipes(recipes_id),
  favorite_recipes INT NOT NULL REFERENCES recipes(recipes_id)
);

CREATE TABLE recipes(
  recipes_id SERIAL PRIMARY KEY,
  ingredient_name VARCHAR(50),
  ingredient_instruction VARCHAR(1000),
  ingredient_picture TEXT,
  ingredient_genre INT NOT NULL REFERENCES genre(genre_id),
  is_private BOOLEAN,
  author_id INT NOT NULL REFERENCES users(user_id)

);

CREATE TABLE groceries(
  grocery_id SERIAL PRIMARY KEY,
  user_id INT NOT NULL REFERENCES users(user_id),
  recipes_id INT NOT NULL REFERENCES recipes(ingredient_name)
);

CREATE TABLE groups(
  group_id SERIAL PRIMARY KEY,
  user_id INT NOT NULL REFERENCES users(user_id),
  genre INT NOT NULL REFERENCES genre(genre_id)
);

CREATE TABLE occasions(
  occasions_id SERIAL PRIMARY KEY,
  user_id INT NOT NULL REFERENCES users(user_id),
  recipes INT NOT NULL REFERENCES recipes(recipes_id),
```

```
  food_genre INT NOT NULL REFERENCES genre(genre_id)
);

CREATE TABLE genre(
  genre_id SERIAL PRIMARY KEY,
  recipes INT NOT NULL REFERENCES recipes(recipes_id)
);
```