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
- username
- user email
- user password
- user location

recipe
- ingredients
- instructions
- public - boolean??
- pictures
- equipment/tools

shared recipes
- ingredients
- instructions
- public - boolean
- posts pictures?
- post date/time
- user posting

comments
- who commented
- time/date

grocery list
- recipe
- ingredients
- price

- type of store

occasions
- assigned recipes
- ingredients
- occasion info

view others recipes - friends?

TABLE IDEAS

User table
- user id
- user email
- user password

Private recipe table
- ingredients
- instructions
- public(boolean)
- picture
- equipment/tools needed

Recipe table
- ingredients
- instructions
- public (boolean)
- pictures
- equipment/tools needed

Shared Recipe table
- picture
- post date/time
- user posting

Comments table
- content of comment
- post being commented own
- author of comment
- author of post

Grocery list table
- ingredients
- price

Occasions table
- occasion info
- assigned recipes
- ingredients

RELATIONSHIPS

one-to-one
user ===> private recipe
user ===> occasion
user ===> grocery list

one-to-many
user ===> public recipe
comment ===> public recipe

many-to-many
user ===> occasions

COLUMNS

user
We made a table for the user so that everyone who uses the app can have their data stored and so that they can access their recipes. I included the location so that the app would be able to find ingredients near them

comment
We made the comment table so that the data can be stored and the comments can be accessed by users to see what people are saying. We included the user_id, the recipe_id, the post_time and the content of the comment.

occasion
The occasion table is needed so that the user can access their recipes and ingredients they'd need for whatever occasion they created.

recipe
the columns are pretty self explanitory but we made a column for a photo and also made a column for equipment and tools that may be needed for the recipe so that the user can know what they need

grocery_list
the grocery list has the ingredients in there so that the user knows what they need from what recipe. We included the price along with a numeric value so that the price can be precise

TABLES

```
CREATE TABLE users(
user_id SERIAL PRIMARY KEY,
username VARCHAR(30),
user_email VARCHAR(50),
user_password VARCHAR (500),
user_location VARCHAR(50)
);

CREATE TABLE recipe(
recipe_id SERIAL PRIMARY KEY,
recipe_name VARCHAR(50),
ingredients VARCHAR(1000),
instructions VARCHAR(1000),
public BOOLEAN DEFAULT true,
recipe_photo_url TEXT,
equipment_tools_needed VARCHAR(1000)
);

CREATE TABLE comment(
comment_id SERIAL PRIMARY KEY,
user_id INT NOT NULL REFERENCES users(user_id),
recipe_id INT NOT NULL REFERENCES recipe(recipe_id),
post_time TIMESTAMP
);

CREATE TABLE grocery_list(
grocery_list_id SERIAL PRIMARY KEY,
ingredients INT NOT NULL REFERENCES recipe(ingredients),
price NUMERIC(8, 2),
store VARCHAR(50)
);

CREATE TABLE occasion(
occasion_id SERIAL PRIMARY KEY,
recipe_id INT NOT NULL REFERENCES recipe(recipe_id),
ingredients INT NOT NULL REFERENCES recipe(ingredients)
);

INSERT INTO users(username, user_email, user_password, user_location)
VALUES('jonahvimahi', 'jonahvimahi@gmail.com', 'password123', 'Utah')
```

```
INSERT INTO recipe(recipe_name, ingredients, instructions, public, equipment_tools_needed)
VALUES('Pizza', 'cheese, crust, peperonni' 'cook in overn' true, 'oven, pizza cutter, cheese
grater)

SELECT * FROM users

SELECT * FROM recipe
```