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

Brainstorm/data needed:

- User first name
- User last name
- User bio
- User Password
- User email
- User recipes
- Recipe comments
- Recipe ingredients
- Recipe instructions
- public/private toggle
- Grocery lists
- Occasions
- Recipe title
- Occasions title

Tables

- User - holds info about the user
    - User Id
    - Grocery list id
    - Recipe id
    - Occasion id
    - First name
    - Last name
    - Bio
    - Password
    - email
- Recipe - holds info about each recipe
    - Recipe Id
    - User id
    - Grocery list id
    - Occasion id
    - Recipe title

    - Recipe author
    - Comments
    - Instructions
    - Ingredients
    - Public/private toggle (boolean)
    - Difficulty level
    - content
- Occasions - holds info about the occasions made by the user
    - Occasions Id
    - User id
    - Recipe id
    - Title
    - outdoor/ indoor toggle (boolean)

- Grocery list- holds info on the users grocery list
    - Grocery list id
    - User id
    - Recipes id
    - Product name
    - Product price
    - Product quantity

Relationships

- One to one
    - User => grocery list
        - Each user can only have one grocery list
        - And each grocery list can only belong to one user
- One to many
    - User => recipe
        - One user can make many recipes
        - But a recipe can only be made by one user
    - User => occasions
        - Users can create multiple different occasions
        - But an occasion can only be created by one user
    - Recipe => grocery list
        - Multiple user's recipes can only be added to one grocery list
- Many to many
    - Recipe => occasions
        - A recipe can be added to multiple occasions
        - And an occasion can have multiple recipes

Columns

- Users
    - User Id
        - This is the serial primary key
    - Grocery list id
        - This connects this table to the grocery list table
    - Recipe id
        - This connects this table to the recipe table
    - Occasion id
        - This connects this table to the occasion table
    - First name
        - The data type for this is VARCHAR(50)
        - I put this in the user table because it would be nice to know each users name
    - Last name
        - This data type is VARCHAR
    - Bio
        - I want each user to have a bio to go along with their profile
        - The data type for this is VARCHAR with more characters like 1000
    - Password
        - Each user will long in with their password
        - The data type is VARCHAR 500 characters
    - Email
        - Each user will long in with their email
        - The data type is VARCHAR
- Grocery_lists
    - Grocery list id
        - This is the serial primary key
    - User id
        - This connects this table to the user table
    - Recipes id
        - This connects this table to the recipes table
    - Product name
        - The product name will be listed in the grocery list
        - The data type is VARCHAR
    - Product price
        - The price will be listed under the product name in the grocery list
        - The data type is INT
    - Product quantity
        - This will be listed next to the product price to indicate how many of each product is needed
        - The data type is INT

Recipes
    - Recipe Id
        - This is the serial primary key
    - User id
        - This connects this table to the user table
    - Grocery list id
        - This connects this table to the grocery list table
    - Occasion id
        - This connects this table to the occasion table
    - Recipe title
        - Each recipe will need the title of the recipe
        - Its data type is VARCHAR
    - Recipe author
        - The author of the recipe will be listed on the recipe
        - Its data type is VARCHAR
    - Comments
        - Each recipe will have a comments section
        - Its data type per comment is VARCHAR
    - Instructions
        - Each recipe will have instructions on how to make it
        - Its data type is TEXT
    - Ingredients
        - TEXT
        - Ingredients need to be listed on each recipe
    - Public_private_toggle
        - This is a boolean
        - The other can toggle this to set their recipe to private or public
- Occasions
    - Occasions Id
        - Serial primary key
    - User id
        - Connects to the user table
    - Recipe id
        - Connects to the recipe table
    - Title
        - Title of each occasion
        - VARCHAR
    - outdoor_indoor_toggle
        - Boolean
        - Toggles if the occasion is an indoor occasion or outdoor

SQL code

```
CREATE TABLE user(
user_id SERIAL PRIMARY KEY,
grocery_lists_id NOT NULL REFERENCES grocery_lists(grocery_lists_id),
recipes_id NOT NULL REFERENCES recipes(recipes_id),
occasions_id NOT NULL REFERENCES occasions(occasions_id),
first_name VARCHAR(50),
last_name VARCHAR(50),
bio VARCHAR(1000),
password VARCHAR(500),
email VARCHAR(50)
);

CREATE TABLE grocery_lists(
grocery_lists_id SERIAL PRIMARY KEY,
user_id NOT NULL REFERENCES user(user_id),
recipes_id NOT NULL REFERENCES recipes(recipes_id),
product_name VARCHAR(50),
product_price INT,
product_quantity INT
);

CREATE TABLE recipes(
recipes_id SERIAL PRIMARY KEY,
user_id NOT NULL REFERENCES user(user_id),
grocery_lists_id NOT NULL REFERENCES grocery_lists(grocery_lists_id),
occasions_id NOT NULL REFERENCES occasions(occasions_id),
recipes_title VARCHAR(100),
recipes_author VARCHAR(50),
comments VARCHAR(500),
instructions TEXT,
ingredients TEXT,
recipes_is_public BOOLEAN
);

CREATE TABLE occasions(
occasions_id SERIAL PRIMARY KEY,
user_id NOT NULL REFERENCES user(user_id),
recipes_id NOT NULL REFERENCES recipes(recipes_id),
title VARCHAR(100),
occasion_is_outdoor BOOLEAN
);
```