

## 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
  - User\_id
  - Username
  - Email address
- User\_password
  - User\_password\_id
  - User\_id (from Users table)
  - password
- Recipes
  - Recipe\_id
  - User\_id(from Users table)
  - post\_id(from post table)
  - ingredients
- Post Recipes
  - post\_id
  - post\_text
  - recipe\_id(from Recipes table)
  - post\_img
- Grocery List
  - Grocery\_id
  - user\_id(from Users table)
  - post\_id(from Post table)
  - ingredients(from Recipes table)
- Occasions
  - Occasions\_id
  - occasion\_name
  - user\_id(from Users table)
  - recipe\_id(from Recipes table)

- private\_public
- coming\_user\_id(from User table)
- host(from user table)

## Relationships:

- One-to-One
  - User id => user password : Only one password share to one user
- One-to-Many
  - User => Recipe : One user can have many recipes, one recipe can be used by many users
  - User => Posts : One user can post or view many post
  - User => Grocery List : One user can have multiple grocery lists
  - User => Occasions : One user can have multiple occasions
  - Recipe => users : One user can have many recipes
- Many-to-Many
  - Recipe => Grocery List : Many recipes can be in many grocery lists
  - Post => Recipe: Any post can relate to any recipe
  - Post => Grocery List : Any post can relate to any grocery list
  - Occasions => recipe : Occasions can have multiple recipes, recipes can be used in multiple occasions

```
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(1000)  
);
```

```
CREATE TABLE posts (  
  post_id SERIAL PRIMARY KEY,  
  user_id INT NOT NULL REFERENCES users(user_id),  
  post_text VARCHAR(100),  
  post_image TEXT,  
  post_timestamp TIMESTAMP  
);
```

```
CREATE TABLE recipes(  
  recipes_id SERIAL PRIMARY KEY,  
  user_id INT NOT NULL REFERENCES users(user_id),  
  post_id INT NOT NULL REFERENCES posts(post_id),  
  ingredients VARCHAR(5000),  
  comment_timestamp TIMESTAMP  
);
```

```
CREATE TABLE occasions(  
  occasion_id SERIAL PRIMARY KEY,  
  occasion_name VARCHAR(50),  
  group_created_time TIMESTAMP,  
  private BOOL,  
  host_id INT NOT NULL REFERENCES users(user_id),  
  attending_id INT NOT NULL references users(user_id)  
);
```

```
CREATE TABLE grocery_list(  
  grocery_list_id SERIAL PRIMARY KEY,  
  post_id INT NOT NULL REFERENCES posts(post_id),  
  user_id INT NOT NULL REFERENCES users(user_id),  
  ingredients TEXT NOT NULL REFERENCES recipes(ingredients)  
);
```