**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/Data:**

* Username
* Email
* Password
* Recipes
* Ingredients
* Instructions
* Recipe (public or private)
* Viewing (other peoples recipes)
* Grocery list
* Occasions

**Tables:**

Users:

* User email
* Username
* User password

Recipes:

* Recipe ID
* Ingredients ID
* Recipe (locked or unlocked) (Boolean)

Ingredients

* Ingredients ID
* Recipe ID

Viewing:

* Viewing id
* Person viewing ID
* Recipe viewed ID

Grocery list:

* Grocery id
* Ingredients ID

Occasions:

* Occasion id
* Recipe ID

**Relationships**

* One to one
* One to many
  + Users 🡪 recipes (users can have multiple recipes)
  + Recipes 🡪 ingredients (one recipe can have multiple ingredients)
  + Users 🡪 grocery list (users can have multiple grocery lists)
  + Recipe 🡪 Occasions (one recipe can be used for different occasions)
* Many to many
  + User 🡪 viewings (users can view multiple user’s recipes)

**Columns**

Users:

* User ID
* Username
* User password

Recipes:

* Recipe id (recipes)
* Ingredients id
* Recipe locked/unlocked
* Breakfast
* Lunch
* Dinner

Viewing:

* Viewing id
* Person viewing ID
* Recipe viewed Id

Grocery list:

* Grocery ID
* Dry goods
* Produce
* Meat/dairy
* Misc.

Occasions:

* Occasion ID
* Holidays
* Birthdays
* Anniversary

CREATE TABLE users (

user\_id SERIAL PRIMARY KEY,

user\_email VARCHAR(20),

user\_password VARCHAR(100)

);

CREATE TABLE recipes (

recipe\_id SERIAL PRIMARY KEY,

ingredients\_id INT NOT NULL REFERENCES ingredients(ingredients\_id),

recipe\_canview BOOLEAN DEFAULT true

);

CREATE TABLE ingredients(

ingredients\_id SERIAL PRIMARY KEY,

recipe\_id INT NOT NULL REFERENCES recipes(recipe\_id)

);

CREATE TABLE viewing (

viewing\_id SERIAL PRIMARY KEY,

person\_viewingrecipe INT NOT NULL REFERENCES users(user\_id),

recipe\_viewed INT NOT NULL REFERENCES recipes(recipe\_id)

);

CREATE TABLE grocerylist (

grocery\_id SERIAL PRIMARY KEY,

ingredients\_id INT NOT NULL REFERENCES ingredients(ingredients\_id)

);

CREATE TABLE occasions(

occasion\_id SERIAL PRIMARY KEY,

recipe\_id INT NOT NULL REFERENCES recipes(recipe\_id)

);