**Features**[**¶**](https://ed.devmountain.com/materials/f18/exercises/data-modeling/#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

* Users
  + User-id
  + Name
  + Email
  + Password
  + Timestamp
  + Birthdate
* Recipes
  + Recipe name
  + Ingredients
  + Instructions
  + Ingredient quantity
  + Quantity made
  + Picture
  + Visibility
  + Timestamp
* Grocery List
  + Ingredients
  + Quantity
* Occasions
  + Occasion name
  + Recipe

Table Ideas:

Users Table

* User\_id
* User\_name
* User\_email
* User\_password
* User\_bio
* Account\_created

Recipes Table

* Recipe\_id
* Recipe\_name
* User\_id from Users table
* Ingredient\_name\_recipe
* Infredient\_quantity\_recipe
* Instruction\_field
* Quantity\_made
* Picture\_id
* Visibility\_boolean
* Time\_of\_post

Grocery List Table

* List\_id
* Ingredient\_name\_list from recipe table
* Ingredient\_quantity\_recipe from recipe table

Occasions

* Occasion\_name
* Recipe\_name from Recipes Table
* Recipe\_link to corresponding recipe in Recipes Table

Relationships

* One to one
  + Ingredient\_name\_recipe => ingredient\_name\_list
  + Recipe\_link => recipe
* One to many
  + User\_name => recipe\_name
  + Ingredient\_quantity\_recipe => ingredient\_quantity\_list
* Many to many
  + Occasion\_name ⬄ recipe\_name

SQL Code

create table users (

user\_id SERIAL PRIMARY KEY,

user\_name VARCHAR(50) NOT NULL,

user\_password VARCHAR(500) NOT NULL,

user\_email VARCHAR(100) NOT NULL,

user\_bio VARCHAR(1000) NOT NULL,

user\_birthday DATE NOT NULL,

account\_created TIMESTAMP NOT NULL,

relationship\_status BOOLEAN

);

create table recipes (

recipe\_id SERIAL PRIMARY KEY,

recipe\_name VARCHAR(100) NOT NULL,

user\_id NOT NULL REFERENCES users(user\_id),

ingredient VARCHAR(100) NOT NULL,

quantity VARCHAR(25) NOT NULL,

instruction VARCHAR(1000) NOT NULL,

quantity\_made VARCHAR(50) NOT NULL,

picture TEXT NOT NULL,

posted TIMESTAMP NOT NULL,

occasion NOT NULL REFERENCES occasions(occasion\_name),

visibility BOOLEAN

);

create table groceries (

list\_id SERIAL PRIMARY KEY,

ingredient NOT NULL REFERENCES recipes(ingredient),

quantity NOT NULL REFERENCES recipes(quantity)

);

create table occasions (

occasion\_name VARCHAR(100) NOT NULL,

recipe\_name NOT NULL REFERENCES recipes(recipe\_name),

recipe\_link NOT NULL REFERENCES recipes(recipe\_name)

);