Brainstorming:

users

recipes

grocery list

ingredients

search function

Table Ideas/Columns:

User

-user id int

-name varchar

-email varchar

-password varchar

-recipes

-created

-public

-grocery list

recipes

-recipe id int

-recipe name varchar

-instructions text

-ingredients

-measurements float

-grocery list

-public bool

-food tag

-occasions

grocery list

-grocery user id int

-ingredients

-amounts float

ingredients

-food id

-food name

-food tag

-dietary information

search

-ingredients

-recipes

-tag types

occasions

-date

-time

-recipes

food tags

-tag id

-name type

Relations:

one to one

-user to grocery list each user only has one grocery list and each grocery list only has one user

one to many

-user to occasions each user has many unique occasions but each occasion is decicided by the user

-user to created recipes

-grocery list to recipes

-grocery list to ingredients

-search to recipes

-search to ingredients

-search to food tag

many to many

-occasions to recipes each occasion can have many recipes and each recipe can be used in many occasions

-users to public recipes

-recipes to ingredients

-recipes to food tag

-ingredients to food tag

CREATE TABLE user\_data(

user\_id SERIAL PRIMARY KEY,

u\_name VARCHAR(20),

email VARCHAR(50),

password VARCHAR(36)

);

CREATE TABLE grocery\_list(

grocery\_list\_id SERIAL PRIMARY KEY,

amount float,

user\_id INT NOT NULL REFERENCES user\_data(user\_id)

);

CREATE TABLE recipes(

recipe\_id SERIAL PRIMARY KEY,

r\_name VARCHAR(20),

instructions TEXT,

public BOOL DEFAULT False,

grocery\_list\_id INT NOT NULL REFERENCES grocery\_list(grocery\_list\_id),

creator\_id INT NOT NULL REFERENCES user\_data(user\_id)

);

CREATE TABLE occasion(

occasions\_id SERIAL PRIMARY KEY,

o\_name VARCHAR(20),

o\_date DATE,

o\_time TIME,

user\_id INT NOT NULL REFERENCES user\_data(user\_id)

);

CREATE TABLE tags(

tag\_id SERIAL PRIMARY KEY,

t\_name VARCHAR(20)

);

CREATE TABLE ingredients(

ingredient\_id SERIAL PRIMARY KEY,

i\_name VARCHAR(20),

diet\_info TEXT,

grocery\_list INT

);

CREATE TABLE recipesingredients(

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

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

);

CREATE TABLE publicrecipes(

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

user\_id INT NOT NULL REFERENCES user\_data(user\_id)

);

CREATE TABLE recipetag(

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

tag\_id INT NOT NULL REFERENCES tags(tag\_id)

);

CREATE TABLE occasionrecipe(

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

occasions\_id INT NOT NULL REFERENCES occasion(occasions\_id)

);

CREATE TABLE ingredienttag(

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

tag\_id INT NOT NULL REFERENCES tags(tag\_id)

);

INSERT INTO user\_data (u\_name, email, password)

VALUES ('Scott Mottola','sjmottola@gmail.com','password1'),

('Steven Mottola','smottola18@yahoo.com','password2'),

('Andrew Mottola','andrewmottola@hotmail.com','password3');

SELECT \* FROM user\_data;