# Part 1

## Step 1

### Brainstorm – what to keep track of

* Users
  + Username
  + Email
  + Password
* Ingredients
  + User submitted (foreign)
* Recipes
  + User who posts (foreign)
  + Instructions
  + Ingredients (foreign)
  + Public/Private boolean
* Grocery lists
  + Users (foreign)
  + Ingredients (foreign)
* Occasions
  + Occasion name
  + Date
  + Users (foreign)
  + Recipes (foreign)

## Step 2

### Table Ideas

User Info – This should capture the information for the individual user so they can correlate and keep track of all their info in the app.

Ingredients – This is just a pre-built list with ingredients for recipes. It currently is just created by the app, but it could be improved to allow users to submit ingredients.

Recipes – This is a list of user generated recipes that can be used in other parts of the app.

Grocery lists – This is a list that is attached to a user to help keep track of what ingredients are in their recipes, so they can shop for them later. It is created when the user creates their profile, and each user only gets one.

Occasions – A single user submits an occasion, but multiple users can join that occasion.

**Occasion-recipes junction table – Keeps track of all the recipes used in all the occasions.**

**Recipe-ingredients junction table – Keeps track of all the ingredients in all the recipes.**

**Grocery list-ingredients junction table – Keeps track of all the ingredients in all the grocery lists.**

# Step 3

### Relationships

#### One-to-One

User – grocery list

#### One-to-Many

Users to Ingredients

Users to recipe

Users to grocery list

Occasions to user

#### Many-to-Many

Ingredients to recipes

Grocery list to ingredients

Recipe to occasion

# Part 3

CREATE TABLE users\_info (

user\_id SERIAL PRIMARY KEY,

username VARCHAR(20),

password VARCHAR(2000)

);

CREATE TABLE grocery\_list (

grocery\_list\_id SERIAL PRIMARY KEY,

user\_id INTEGER NOT NULL REFERENCES users\_info(user\_id)

);

CREATE TABLE occasions (

occasion\_id SERIAL PRIMARY KEY,

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

occasion\_date DATE

);

CREATE TABLE ingredients (

ingredient\_id SERIAL PRIMARY KEY,

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

ingredient\_name VARCHAR(50)

);

CREATE TABLE recipes (

recipe\_id SERIAL PRIMARY KEY,

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

recipe\_name VARCHAR(50),

recipe\_instructions VARCHAR(5000)

);

CREATE TABLE grocery\_list\_ingredients (

grocery\_list\_ingredient\_id SERIAL PRIMARY KEY,

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

ingredient\_id INTEGER NOT NULL REFERENCES ingredients(ingredient\_id)

);

CREATE TABLE recipe\_ingredients (

recipe\_ingredient\_id SERIAL PRIMARY KEY,

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

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

);

CREATE TABLE occasion\_recipes (

occasion\_recipe\_id SERIAL PRIMARY KEY,

occasion\_id INTEGER NOT NULL REFERENCES occasions(occasion\_id),

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

)

# Part 4

INSERT INTO users\_info (username, password) VALUES

('vermin\_supreme', 'iAM%CrAzY12453'),

('harry\_potter', 'chose\_one'),

('walter\_white', 'iAmThE1WhOKNOcks')

INSERT INTO recipes (recipe\_name, user\_id, recipe\_instructions) VALUES

('boot pizza', 1, 'throw a boot on your head and a pizza on your boot then cook'),

('butter beer', 2, 'idk actually i just buy it from diagon alley or some place'),

('scrambled eggs', 3, 'throw in some eggs, some self-righteousness, anger, rage, hatred, murder, and top off with bacon representing your age for symbolism')