**Summary**

We want to create a recipe creating/sharing and grocery list app. You’ll be planning out what tables we’ll need, what information they’ll store, and how the data will relate to each other.

**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

1. table for users
2. table for recipes
3. table for grocery lists
4. table for occasions

Table Ideas

Users table: holds user account information; each row will be a user

* user id
* user name
* user email
* user password
* user recipes
* user grocery list
* user occasion

Recipes table: holds recipe information; each row will be a different recipe

* recipe id
* recipe name
* recipe ingredients
* recipe instructions
* recipe visibility

Grocery list table: holds grocery lists for each user; each row is a different list

* grocery list id
* grocery list name
* grocery list ingredients

Occasions table: holds occasions for each user; each row is a different occasion

* occasion id
* occasion name
* recipe name
* recipe ingredients
* recipe instructions

Relationships

* one to one
  + one user has one of each:
    - user\_id => user
    - user\_name => user
    - user\_email => user
    - user\_password => user
* one to many
  + user => grocery lists
    - one user can have many grocery lists and grocery lists can only be associated with one user
  + user => occasions
    - one user can have many occasions and occasions can only be associated with one user
* many to many
  + recipes <=> users
    - many recipes can be used by many users

CREATE TABLE users (

user\_id SERIAL PRIMARY KEY,

user\_name VARCHAR(100) NOT NULL,

user\_email VARCHAR(100) NOT NULL,

user\_password VARCHAR(500) NOT NULL,

user\_recipes VARCHAR(100) REFERENCES recipes(recipe\_id),

user\_grocery\_lists VARCHAR(100) REFERENCES grocery\_list(grocery\_list\_id),

user\_occasions VARCHAR(100) REFERENCES occasions(occasion\_id)

);

CREATE TABLE recipes (

recipe\_id SERIAL PRIMARY KEY,

recipe\_name VARCHAR(100) NOT NULL,

recipe\_ingredients VARCHAR(500) NOT NULL,

recipe\_instructions VARCHAR(2000) NOT NULL,

recipe\_public BOOLEAN

);

CREATE TABLE grocery\_list (

grocery\_list\_id SERIAL PRIMARY KEY,

grocery\_list\_name VARCHAR(100) NOT NULL,

grocery\_list\_items VARCHAR(500) REFERENCES recipes(recipe\_ingredients)

);

CREATE TABLE occasions (

occasion\_id SERIAL PRIMARY KEY,

occasion\_name VARCHAR(100) NOT NULL,

occasion\_recipe VARCHAR(100) REFERENCES recipes(recipe\_id)

);