## **Brainstorming**

- user id
- username
- email
- user password
- recipe id
- recipe name
- public/private
- ingredients list
- instructions list
- grocery list
- occasions
  - recipes
- share function

#### **Table Ideas**

- user table
  - stores their basic information, grocery lists, occasions, list
- recipe table
  - stores id, ingredients, instructions, and public/private
- ingredient table
  - ingredient id, name
- grocery list
  - id, ingredient ids
- occasion
  - id, user, recipe
- view
  - view id, user id, recipe id

# Relationships

- one-to-one
  - user to grocery list
    - each user has only one grocery list that is unique to them
- one-to-many
  - user to recipe
    - each user can create multiple recipes
  - user to occasions
    - each user can create multiple occasions
- many-to-many
  - view to user
    - each recipe can be viewed by multiple users
  - view to recipe
    - each recipe can be viewed by multiple users
  - recipe to ingredients
    - multiple recipe can contain multiple ingredients
  - grocery list to ingredients
    - multiple grocery lists can include many ingredients

### Columns

- users
  - user\_id: tracks our users to connect to views and recipes, integer type to auto-increment for new users

- email: a limited varchar for users to input their contact information to link to their account
- user name: a unique username with limited varchar for users to use on sign-in
- user\_password: a limited varchar for users to use on sign-in
- recipes
  - recipe\_id: identifies each recipe to include in occasions lists and track views, integer type to auto-increment for each new recipe
  - recipe\_name: stores the recipe of the recipe to display to users
  - public/private: this boolean value will be true for public, false for private
  - instructions: this text variable includes the set of instructions connected to the current recipe
  - ingredient\_id: this text variable holds the foreign-keys for each ingredient included in the recipe
  - user\_id: this foreign key connects to the user table to connect the recipe to its author
- ingredients
  - ingredient\_id: identifies each ingredient to include in ingredient lists and occasion lists, integer type to auto-increment for each new recipe
  - ingredient\_name: this varchar includes the ingredient name to be displayed in recipes and grocery lists
- grocery
  - grocery\_id: identifies each grocery list to relate to its respective user
  - ingredients\_id: this varchar contains a list of each ingredient id added to the list
  - user\_id: this foreign key connects to the user that owns the list
- occasion
  - occasion\_id: identifies each occasion created by the user
  - recipe\_id: this varchar contains a list of each recipe id added to the list
  - user\_id: this foreign key connects to the user that owns the list
- views
  - view\_id: this integer key tracks the total views occurring by all users on all recipes
  - user\_id: this foreign key will connect to the user who is viewing the corresponding recipe
  - recipe\_id: this foreign key will connect to the recipe that is being viewed

### SQL code

```
create table users (
      user id serial primary key,
 email varchar(40),
 user name varchar(40),
 user_password varchar(40)
create table recipes (
      recipe_id serial primary key,
 recipe name varchar(40),
 public boolean,
 instructions text.
 ingredient id varchar(40),
 user id integer
create table ingredients (
      ingredient id serial primary key,
 ingredient name varchar(40)
);
```

```
create table groceryList (
   grocery_id serial primary key, ingredients_id varchar(40),
   user_id integer
 );
 create table occasion (
   occasion_id serial primary key, recipe_id varchar(40),
  user_id integer
 );
 create table views (
  view_id serial primary key,
   user_id integer,
   recipe_id integer
   );
insert into recipes (recipe_name, public, instructions) values ('Tacos', true, 'Assemble ingredients on tortillas'),
('Buttered Toast', false, 'Toast bread. Spread butter on toasted bread.')
insert into occasion (recipe_id)
values ('1,2')
```