May 10, 2022

Brainstorming

- users
  - username
  - email
  - photo
  - password
  - created recipes
  - saved recipes
  - food preferences
  - grocery lists
- recipes
  - ingredients
  - recipe id
  - pictures
  - steps
  - time
  - food type (vegan, vegetarian, keto, etc)
  - recipe ratings
  - public or private
  - comments on the recipe
  - folders of recipes
- grocery list
  - stores near you
  - items
    - price of items
    - calories of items
- occasions
  - recipes for occasion
  - occasion name
  - occasion grocery list

Table ideas

- users

    - each row will be a specific user
    - each column will be an attribute of the user table
- recipes
    - each row will be a specific recipe
    - each column will be an attribute of the recipe table
- occasions
    - each row will be a specific occasion
    - each column will be an attribute of the occasions table
- grocery list
    - each row will be a specific list
    - each column will be an attribute of the grocery list table

- Ingredients
    - ingredient id
    - ingredient name

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relationships

- one to one
    - recipe to recipe creator
        - each recipe can only have one person who created it
- one to many
    - user to saved and created recipes
        - one user can have many recipes
    - folder to recipes
        - each folder can contain many recipes
    - ingredient to recipes
        - each ingredient will be used in many different recipes
- many to many
    - ingredients to grocery lists
        - each grocery list, of which a user can have several, will have several ingredients on it
    - recipes to occasions
        - each occasion, of which a user can have several, will have several recipes within it

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columns

- users
  - user id
    - to keep each user unique
    - integer for keys so they are manipulatable and standard
  - username
    - so user can customize what they want to display
    - varchar so they're name doesn't take too much space
  - email
    - so we can contact the user
    - varchar so its real email
  - password
    - so they alone can access their account
    - text so hashed password is allowed
  - created recipes id
    - so each recipe only has one creator
    - integer for keys
  - saved recipes
    - so they can use them again later
    - integer for keys
  - food preferences
    - so they don't have to filter every single time
    - text so they can enter as many as they want
  - profile photo
    - so user can customize what they want to display
    - text for urls
- recipes
  - recipe id
    - so recipes are individually accessible
    - integer for keys
  - ingredients
    - so the user can know what they need
    - text so we don't limit the number of ingredients
  - pictures
    - so the user and others can know what it looks like
    - text for urls
  - steps
    - so they user can know how to actually make the recipe

        - text so we don't limit the number of steps
    - time to cook
        - filter option when searching for recipes
        - var char so you can put the unit (minutes, hours etc) but not a novel
    - food categories
        - filter option when searching for recipes
        - text so number of categories is not limited
    - recipe ratings
        - so user can know if it will be good
        - float to cap at perfect score, and give partial ratings
    - public or private
        - so user does not have to share their recipes
        - boolean because only two options
    - recipe comments
        - so users can talk about recipe and leave tips and tricks and elaborate on reviews
        - varchar so they don't enter novels
- ingredients
    - ingredient id
        - so only one of each specific ingredient type
        - integer for keys
    - ingredient name
        - so users can know what the ingredient is named
        - var char for limiting novels
- occasions
    - occasion name
        - so user knows what occasion it is
        - var char to limit novels
    - recipes id
        - so user can add specific recipes to occasion
        - integer for keys
    - user id
        - so each occasion is associated with a specific user
        - integer for keys
- grocery_lists
    - user id
        - so lists are tied to specific users
        - integer for keys
    - stores
        - so users can know which stores carry the ingredients

    - var char so they don't enter a novel
- ingredient ids
    - so users can add specific ingredients to lists
    - integer for keys
- quantity
    - so users can know how much of each item to get
    - integer because that's what a quantity is, and you can't get half of something from the grocery store

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```
CREATE TABLE recipes(
   recipe_id SERIAL PRIMARY KEY,
   ingredients TEXT,
   pictures TEXT,
   steps TEXT,
   time_to_cook varchar(30),
   food_categories text,
   recipe_ratings float,
   public_private boolean,
   recipe_comments varchar(255)
);

CREATE TABLE ingredients (
   ingredient_id SERIAL PRIMARY KEY,
   ingredient_name varchar(30)
);

CREATE TABLE users(
   user_id SERIAL PRIMARY KEY,
   username VARCHAR(30),
   email varchar(30),
   password varchar(30),
   created_recipes_id INTEGER FOREIGN KEY REFERENCES recipes(recipe_id),
   saved_recipes_id INTEGER FOREIGN KEY REFERENCES recipes(recipe_id),
```

```
  food_preferences TEXT,
    profile_photo TEXT
);

CREATE TABLE grocery_list(
  user_id INTEGER FOREIGN KEY REFERENCES users(user_id),
  stores varchar(50),
  ingredient_ids INTEGER FOREIGN KEY REFERENCES ingredients(ingredient_id),
  quantity INTEGER
);

CREATE TABLE occasions(
  occasion_name varchar(50),
  recipes_ids INTEGER FOREIGN KEY REFERENCES recipes(recipe_id),
  user_ids INTEGER FOREIGN KEY REFERENCES users(user_id)
);
```

```
INSERT INTO recipes(ingredients, pictures, steps, time_to_cook, food_categories,
recipe_ratings, public_private, recipe_comments)
      VALUES ('milk, granola', 'https://detoxinista.com/wp-content/uploads/2017/11/
gluten-free-granola.jpg', '1. pour in desired cereal 2. pour in desired milk 3. enjoy', '2
minutes', 'vegetarian, protein', 4.5, true, 'tried it, was very very good, thanks for the recipe,
huge success');
```