RECIPE CREATING/SHARING AND GROCERY LIST

Tables Ideas

- **Users- this table will hold user info such as id and names**
  - **User_id**
  - **Username**
  - **Firstname/Lastname**
- **Authorization- this will hold private user info user to verify the user**
  - **Email**
  - **Password**
  - **DOB**

- **Recipes- this table will hold recipe info such as ingredients, instructions and pictures**
  - **Recipe_id**
  - **User_id**
  - **Instructions (body/text)**
  - **Ingredients (body/text)**
  - **Timestamp**
  - **Type**
  - **public/private**
  - **Pictures**
- **Grocery List- This will hold the ingredients from a recipe, each row will be a different recipe**
  - **List_id**
  - **User_id**
  - **Ingredients (body/text)**
- **Occasions- This table will hold info for the Occasion such as name, time/date and whether it is public or private**
  - **Occasion_id**
  - **Occasion Name**
  - **Recipe_id**
  - **date**
  - **Public/private**
- **Ingredients list**
  - **ingredients_list_id**
  - **Recipe_id**
  - **Ingredients (body/text)**

Relationships

One-to-one

- **Users to authorization (users pulls info from Authorization)**
- **Users to Grocery List (user adding items to a grocery list)**

One-to-Many

- **Users to Recipes (user creating recipes)**
- **Users to Occasion (user creating occasions)**
- **Grocery List to Recipes (the grocery list can have the ingredients of several recipes)**
- **Occasions to Recipes (an occasion can have multiple recipes)**

Many-to-Many

- **Users to Recipes (many users can viewing many recipes)**

COLUMNS

- **Users**-
    - **User_id-** to recognize user id from each other, integer is a whole number
    - **Username-** This allows the user to login with a unique username w/o needing to see there user_id, VarChar because it should be relatively short
    - **Firstname/Lastname-** User can register and be identified using their actual name, VarChar because it should be short and no need for text type

- **Authorization**-
    - **Email-** email address should be stored in a secure area, VarChar because it should be shorter
    - **Password-** password for logging in, VarChar because this field should be long
    - **DOB-** Date of birth to differentiate more between user in case of same name, Date type because it's easier to sort through instead of free text

- **Recipes**-
    - **Recipe_id-** storing to distinguish between recipes, Integer because it's a whole number

    - **User_id-** to specify which user created the recipe, Integer for whole numbers
    - **Instructions (body/text)-** so that people know how to make the recipe, text type because it may be long
    - **Ingredients_list_id-** to link the ingredients table to this table, integer for whole number
    - **Timestamp-** to see when recipe was posted, timestamp is easiest way to store
    - **public/private-** so that users can decide whether they want the recipe to be viewable to the public or just them, boolean because its one or the other.
    - **Pictures-** so that users can view the finished product and steps along the way, text type because image urls can be long

- **<u>Grocery List</u>-**
    - **List_id-** to specify what grocery list it is, integer for whole numbers
    - **User_id-** to specify what user created the grocery list, integer for whole number
    - **Ingredients_list_id-**to link the ingredients table to this, integer for whole number
- **<u>Occasions</u>-**
    - **Occasion_id-** specify which occasion, integer for whole number
    - **Occasion Name-** to see what the occasion is called, Varchar cause it should be long
    - **Recipe_id-** to link what recipes will be used, integer for a whole number
    - **Date-** to specify when activity will take place, date type is easiest to store and read
    - **Public/private-** so that users can decide whether they want the occasion to be viewable to the public or just them, boolean because its one or the other.
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- **<u>Ingredients list</u>**
    - **Ingredients_list_id-** specify what ingredients list, integer for whole number
    - **Ingredients (body/text)-** so that users know what to include in the recipe, text type so as not to limit what can be included

SQL CODE

```
 CREATE TABLE users (
   user_id SERIAL PRIMARY KEY,
   username VARCHAR(255),
   first_name VARCHAR(255),
   last_name VARCHAR(255)
 );

CREATE TABLE authorize (
  email VARCHAR(255),
  password TEXT,
  dob DATE,
  user_id INTEGER REFERENCES users(user_id)
  );

CREATE TABLE ingredients (
  ingredients_list_id SERIAL PRIMARY KEY,
  ingredients TEXT
  );

CREATE TABLE recipes (
  recipe_id SERIAL PRIMARY KEY,
  user_id INTEGER REFERENCES users(user_id),
  instructions TEXT,
  ingredients_list_id INTEGER REFERENCES
ingredients(ingredients_list_id),
  time TIMESTAMP,
```

```
  public_private BOOLEAN,
  recipe_pic TEXT
  );

CREATE TABLE grocery_list (
  list_id SERIAL PRIMARY KEY,
  user_id INTEGER REFERENCES users(user_id),
  ingredients_list_id INTEGER REFERENCES
ingredients(ingredients_list_id)
  )

CREATE TABLE occasions (
  occasion_id SERIAL PRIMARY KEY,
  occasion_name VARCHAR(255),
  recipe_id INTEGER REFERENCES recipes(recipe_id),
  date DATE,
  public_private BOOLEAN,
  user_id INTEGER REFERENCES users(user_id)
  )
```