RECIPE CREATING / SHARING APP & GROCERY LIST
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FEATURES
- New users can create account or view limited recipes as guest
- Existing users can sign in with username / password
- Users with accounts can save recipes to their app recipe book
    - "My recipes"
- Users can create recipes
    - Ingredients
    - Instructions
- Recipe privacy settings
    - Public
    - Private
- Users can view others recipes
- Ingredients from recipes can be added to users grocery lists
- Users can create their own occasions and assign recipes to occasions

BRAINSTORMING (what to keep track of in the app)
- New users can view limited recipes as guests or create their own account
    - User info
        - First name
        - Last name
        - Phone
        - email
- Existing users can sign into the app with username and password
    - User info
        - Email
        - Password
        - Username
- Users can create recipes

- ○ Name recipes
  - ■ Add instructions
  - ■ Add ingredients
  - ■ Add macros
  - ■ Allergy info (possibly allergy alternatives)
- ● Recipe privacy settings
  - ○ Users can set their recipes to private or public
    - ■ Private
      - ● Only viewable when shared by user
    - ■ Public
      - ● Viewable by anyone who finds it
- ● Users can view recipes
  - ○ Search for recipes (if recipes are public)
    - ■ See instructions
    - ■ See ingredients
      - ● Measurements
    - ■ Macros / micros / nutrition
    - ■ Allergy info
  - ○ Recipe reviews
    - ■ Comments
    - ■ Star ratings
  - ○ Search for recipes (request access if private)
    - ■ See instructions
    - ■ See ingredients
      - ● Measurements
    - ■ Macros / micros / nutrition
    - ■ Allergy info
- ● Ingredients from recipes can be added and categorized on grocery lists
  - ○ Users can create grocery lists
    - ■ Recipes can be added to the grocery list
    - ■ Grocery list can be saved and named
    - ■ Users can input ingredients they already have and grocery lists can be recommended within the ingredients they have

- App will notify you saying "you have the perfect amount of ingredients for THIS RECIPE"
- Users can create occasions (parties, events etc)
  - Save recipes to occasions

TABLE IDEAS
- User
  - Username, user id, personal info
- Recipe
  - Foods, ingredients needed, measurements, cooking instructions
    - Pre made grocery list
  - Recipe updates
    - Push to users who have saved this recipe and notify them
  - Comments / star ratings
    - Users can leave comments / recommendations
    - Users can leave star ratings
- Author
  - Creator of recipe
    - Recipes created by user
  - Author can view comments / ratings
    - Author can review comments / ratings but not edit them
  - Author can update recipe
    - Once author updates recipe, the new version will be saved but the old version will still be available
- Saved Recipe
  - Username, user id, saved recipes
    - Foods, ingredients, measurements, cooking instructions
    - Saved grocery lists
    - Comments

- Recommendation
  - Recipe based on input foods
    - Username, user id, food input
      - Grocery list
- Occasion
  - Date / time / holiday
    - Recipes based on date / time / holiday
  - Users can create occasions
    - Birthdays
    - Family events
- ~~Allergy~~ **moved allergies to user table**
  - ~~Users can input their allergies~~
    - ~~Once a recipe is found, the allergy will appear in red text and notify the user with a pop up that the allergy contains selected foods~~
  - ~~Stored to username / user id~~
- Grocery List
  - Include ingredients for recipes
    - Author of recipe
    - Measurements / ingredients / instructions for recipe
- COMMENTS / RATINGS
  - Users are able to leave comments and ratings on recipes
    - Authors will be notified but cannot adjust ratings / recipes
- NOTIFICATIONS
  - Authors are able to adjust recipes and save them
    - Users who have saved the recipe are notified when a recipe has changed

RELATIONSHIPS
- One-to-one
  - Author to user account
    - One author per user account
- One-to-many
  - Author to recipe

- - ■ Authors may create multiple recipes
    - ○ Author to occasion
      - ■ Authors may create multiple occasions
    - ○ Author to grocery list
      - ■ Authors may create multiple / save grocery lists
    - ○ User to grocery list
      - ■ Users may create / save multiple grocery lists
    - ○ Notifications
      - ■ One user can get many notifications
- ● Many-to-many
  - ○ Author recipe to users
    - ■ Authors may create multiple recipes for users to view
  - ○ Grocery list to users / authors
    - ■ Grocery lists may be saved my multiple authors / users
  - ○ Recommendation to users
    - ■ Multiple recommendations may be used / seen by multiple authors / users

COLUMNS
- ● USER
  - ○ User-id
    - ■ Each user will have a unique id that separates them from everyone
  - ○ User-name
    - ■ Allows for company / app to address them by name and allows for some account personalization
  - ○ First name / last name
    - ■ Allows users to sign up for app - first and last are required by company
  - ○ Birth date
    - ■ Required when signing up for marketing purposes
  - ○ User email

- Required during signup to verify account signup and help with any future account issues
    - ○ User allergy
        - ■ Helps users have a better experience by helping them filter out and find recipes that best suit them
- RECIPE
    - ○ Recipe id
        - ■ Each recipe will have a unique id that separates from others
    - ○ Author id
        - ■ Ties recipe id to author id
            - If author has fans then those fans can watch for notifications from that author
            - The author can go into their own recipes and adjust them
    - ○ Grocery list
        - ■ Grocery list of what ingredients are needed for the recipe
    - ○ Recipe updates
        - ■ Sends updates to users who have saved the recipe
- OCCASION
    - ○ Occasion id
        - ■ Separates occasion from others
    - ○ Author id
        - ■ Allows for authors to save their own occasions and share with other users
        - ■ Allows for authors to adjust occasions
    - ○ Grocery id

- ■ Pulls grocery list id from grocery list so that occasion has access to grocery list
- ● GROCERY LIST
  - ○ Grocery id
    - ■ Each grocery list has its own id that separates it from others
    - ■
  - ○ Grocery list
    - ■ Includes instructions for preparing recipe
    - ■ Includes all grocery information
      - ● Food list
      - ● Instructions for food prep
      - ● Macros / micros / nutrition info
  - ○ Author id
    - ■ Allows for author to edit grocery list
  - ○ User id
    - ■ Allows for users to save grocery list to saved recipes
  - ○ Saved recipe id
    - ■ Allows for each user to have their own list of saved recipes
- ● AUTHOR
  - ○ Author id
    - ■ Each author has their own id that separates them from others
  - ○ User id
    - ■ Each user has their own unique id
  - ○ Email

- - - Each author has their own unique email for their account
    - ○ recipe id
      - ■ Each new recipe created by the author has its own id
- ● RECOMMENDATIONS
  - ○ Each recommendation has a separate id from the rest
  - ○ User id
    - ■ Each recommendation will reach out to the user who has a recipe id saved
  - ○ User allergy
    - ■ Holds user allergy info and updates them on any recipe updates including allergy info to ensure they are avoiding allergies and or seeing recommendations for replacement items
  - ○ User email
    - ■ Updates are sent to users email so they don't miss updates
  - ○ Recipe id
    - ■ Each time a recipe is updated the user will be sent a new recommendation based on the changes made
- ● NOTIFICATIONS
  - ○ Notify-id
    - ■ Each notification has its own id that separates it from the rest
  - ○ User id
    - ■ User ids are saved under notifications so that it knows which users to send the notifications to (based on saved recipes etc)

- ○ User email
  - ■ Notifications are sent to users email to help ensure that they don't miss updates
- ○ Recipe id
  - ■ As soon as a recipe is updated, the recipe id is tracked
- ● SAVED RECIPE
  - ○ Saved recipe id
    - ■ Each saved recipe has its own id
  - ○ User id
    - ■ Each user will have their own saved recipes
  - ○ Grocery id
    - ■ Saves each grocery id the user has saved so that the user can view each unique grocery list
- ● COMMENTS / RATINGS
  - ○ Comment / rating id
    - ■ Each comment has its own id
      - ● Rating does not have its own id as it is tied to a comment or no comment
  - ○ User id
    - ■ Each comment / rating is tied to the unique user id
  - ○ Recipe id
    - ■ Each comment / rating is tied to the unique recipe id
  - ○ Notify id
    - ■ Notifications are sent to each unique author id so that they can see how the community feels about their dish

COMMENTS / RATINGS

users are able to comment and add ratings to recipes

comment/rating_id	integer
user_id	integer
recipe_id	integer
notify_id	integer

Add field

SAVED RECIPE

allows users to save their favorite recipes and see those recipes updated when updates occur

saved_recipe_id	integer
user_id	integer
grocery_id	varchar(600)

Add field

USER

user id / user personal info / allergies

user_id	integer
user_name	varchar(20)
first_name	varchar(20)
last_name	varchar(20)
birth_date	integer
user_email	varchar(40)
user_allergy	varchar(120)

Add field

NOTIFICATIONS

notifies users when recipes are updated

notify_id	integer
user_id	integer
user_email	varchar(400)
recipe_id	integer

Add field

GROCERY LIST

instructions / ingredient list

grocery_id	integer
author_id	integer
user_id	integer
saved_recipe_id	integer
grocery_list	varchar(600)

Add field

RECOMMENDATIONS

recommends recipes to users based on their allergies / updated saved recipes / their ingredient inputs

recommendation_id	integer
user_id	integer
user_allergy	varchar(120)
user_email	varchar(120)
recipe_id	integer

Add field

RECIPE

instructions / ingredients / measurements / nutrients

recipe_id	integer
author_id	varchar(20)
grocery_list	varchar(600)
recipe_updates	varchar(600)
recommendation_id	binary

Add field

OCCASION

grocery list / events

occasion_id	integer
author_id	integer
grocery_id	integer
grocery_list	varchar(400)

Add field

AUTHOR

recipe creators / user email / user id

author_id	integer
user_id	integer
email	varchar(20)
recipe_id	integer

Add field

```sql
CREATE TABLE users (
  user_id SERIAL PRIMARY KEY UNIQUE,
  user_name VARCHAR(20),
  first_name VARCHAR(20),
  last_name VARCHAR(20),
  birth_date DATE,
  user_email VARCHAR(30),
  user_allergy VARCHAR(120)
 );

-- ALTER TABLE users
--     ADD user_password VARCHAR(25);

-- CREATE TABLE recipes (
--   recipe_id SERIAL PRIMARY KEY UNIQUE,
--   author_id INT NOT NULL REFERENCES
authors(author_id),
--   grocery_list VARCHAR NOT NULL REFERENCES
groceries(grocery_list),
--   recipe_updates VARCHAR(500),
--   recommendation_id INT NOT NULL REFERENCES
recommendations(recommendation_id)
--   );

-- CREATE TABLE authors (
--   author_id SERIAL PRIMARY KEY UNIQUE,
--   user_email VARCHAR NOT NULL REFERENCES
users(user_email),
--   user_password VARCHAR NOT NULL
REFERENCES users(user_password),
```

```
--      recipe_id INT NOT NULL REFERENCES
recipes(recipe_id)
-- );

-- CREATE TABLE groceries (
--      grocery_id SERIAL PRIMARY KEY UNIQUE,
--   author_id INT NOT NULL REFERENCES
authors(author_id),
--   user_id INT NOT NULL REFERENCES
users(user_id),
--   saved_recipe_id INT NOT NULL REFERENCES
saved_recipes(saved_recipes_id),
--   grocery_list VARCHAR(500)
--   );

--   CREATE TABLE comments_ratings (
--      comment_rating_id SERIAL PRIMARY KEY
UNIQUE,
--      user_id INT NOT NULL REFERENCES
users(user_id),
--      recipe_id INT NOT NULL REFERENCES
recipes(recipe_id),
--      notify_id INT NOT NULL REFERENCES
notifications(notify_id)
--      );
```