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

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Brainstorming

- User:
    - first_name
    - last_name
    - user_email
    - user_password
    - user_id
- Recipes:
    - recipe_id
    - user
    - Ingredients
    - Instructions
    - is_public
- Grocery_Lists:
    - ingredients

Table Ideas

User Table

user_id	first_name	last_name	user_email	user_password

Ingredients Table

ingredient_id	ingredient_name

Recipes Table

recipe_id	instructions	is_public	user_id	ingredient_id

Grocery Table

grocery_id	ingredient_id	user_id

Occasions Table

ocasion_id	recipe_id	user_id	date

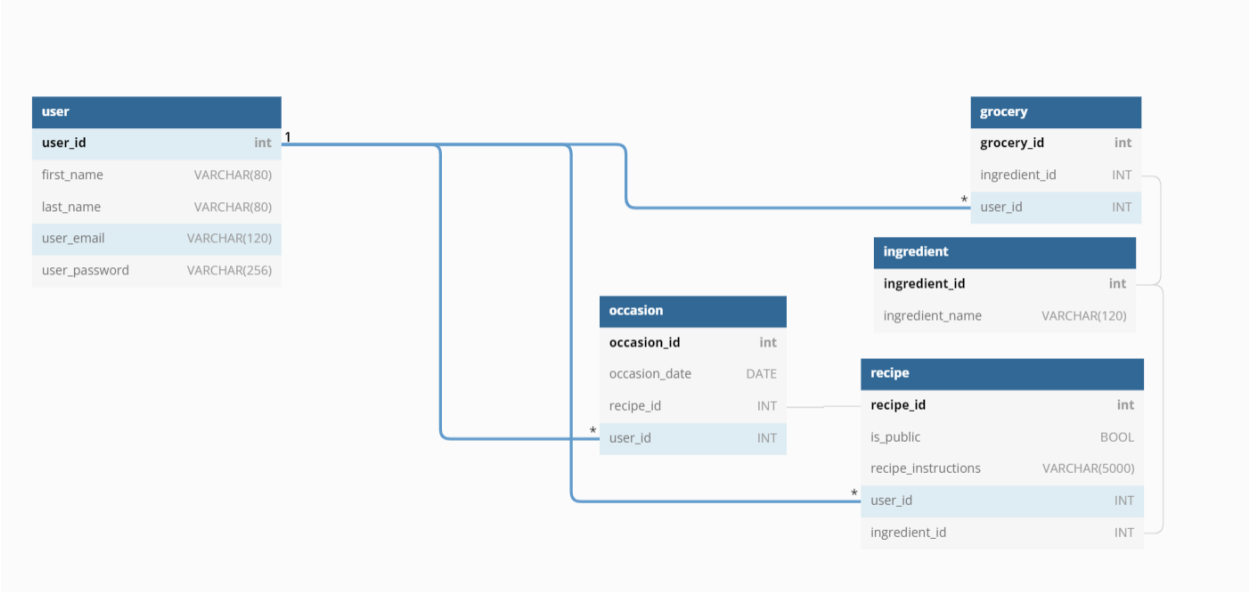
Relationships

- One to One
- One to Many
    - User => Recipes
    - User => Occasions
    - User => Grocery
- Many to Many
    - Recipe ⇔ Ingredients
    - Recipe ⇔ Occasions
    - Grocery ⇔ Ingredients

Columns

- Users
    - user_id
        - This gives the user a unique value
    - first_name
        - Gets the users first name
        - Chose VARCHAR because it saves strings
    - last_name
        - Gets the users last name
        - Chose VARCHAR because it saves strings
    - user_email
        - Gets the users email
        - Chose VARCHAR because it saves strings
    - user_password
        - Gets the users password
        - Chose VARCHAR because it saves strings
- Ingredients
    - Ingredient_id
        - Gives the ingredient a unique value
    - Ingredient_name
        - Stores the ingredient name
        - Saved it as a VARCHAR because it is a string
- Recipes
    - Recipe_id
        - Gives the recipe a unique value
    - Instructions
        - Stores the instructions
        - Saved as a VARCHAR because it is a string
    - Is_public

        - Stores if the the recipe available for viewing
        - Saved as a Boolean value because you can either see it or you can't
    - User_id
        - Saves the user ID so that we can see who is attached to the recipe
    - Ingredient_id
        - Saves the ingredient ID so that we can see what is attached to the recipe
- Grocery
    - Grocery_id
        - Gives grocery a unique value
    - Ingredient_id
        - Saves the ingredient ID so that we can see what is needed
    - User_id
        - Saves the user ID so that we can see what User is getting the ingredient
- Occasions
    - Ocasion_id
        - Gives the occasion a unique value
    - Date
        - Saves the date for the occasion
        - Saving the value of the date as a date
    - Recipe_id
        - Saves the recipe ID so that we know what recipe is on the occasion
    - User_id
        - Saves the user ID so that we can tell who saved the occasion



```sql
CREATE TABLE users (
  user_id SERIAL primary key,
  first_name VARCHAR(80),
  last_name VARCHAR(80),
  user_email VARCHAR(120),
  user_password VARCHAR(256)
);

CREATE TABLE ingredient (
  ingredient_id SERIAL PRIMARY KEY,
  ingredient_name VARCHAR(120)
);


CREATE TABLE recipe (
  recipe_id SERIAL PRIMARY KEY,
  is_public BOOL,
  recipe_instructions VARCHAR(5000),
  user_id INT NOT NULL REFERENCES users(user_id),
  ingredient_id INT NOT NULL REFERENCES ingredient(ingredient_id)
);

CREATE TABLE grocery (
  grocery_id SERIAL PRIMARY KEY,
  ingredient_id INT NOT NULL REFERENCES ingredient(ingredient_id),
  user_id INT NOT NULL REFERENCES users(user_id)
);

CREATE TABLE occasion (
  occasion_id SERIAL PRIMARY KEY,
  occasion_date DATE,
  recipe_id INT NOT NULL REFERENCES recipe(recipe_id),
  user_id INT NOT NULL REFERENCES users(user_id)
);
```