# Data

User\_id

Email

Password

Name

Recipe\_id

Recipe name

Recipe ingredients

Recipe instructions

Recipe visibility

User clearance

Grocery list

Occasion

Occasion recipes

# **Table Ideas**

Users: contains user data

Recipes: contains submitted recipes and displays them

Grocery list: contains ingredients saved from recipes

Occasion: contains submitted occasions and recipes assigned to occasions

User-Recipe - Acts as middle table between users and recipes taking in the user id foreign and recipe id foreign for the appropriate creator

Recipe-Occasion - Acts as middle table between occasions and recipes

Recipe-Grocery - Acts as middle table between recipes and grocery list

# Relationships

#### One-to-one

User to grocery list: One user can have one grocery list and each grocery list can have one user

## One-to-many

User to occasion: User can create many occasions but each occasion can only have one creator

## Many-to-many

Users to Recipes: User can interact with many recipes and one recipe can have many people interacting with it

Recipe to Occasion: Recipes can be assigned to multiple occasions and occasions can have multiple recipes

Recipes to Ingredient: One recipe can have many ingredients and one ingredient can have many grocery lists

Ingredients to Grocery:One ingredient can be in multiple grocery lists and one grocery list can have multiple ingredients

# **Columns**

#### Users:

- User ID is an integer since the serial primary key for each table has to be an integer.
- Email is a varchar to allow user to input email for contact and account access. Its set as a unique VarChar to limit characters and prevent confusion
- Password is a VarChar to allow user input for account access
- Name is a VarChar to allow for display name separate from username. VarChar also allows a character limit
- Grocery list to user is a one to one relationship so grocery id is a foreign integer to connects directly to the grocery list table

#### User Recipe:

- User recipe ID is an integer since the serial primary key for each table has to be an integer.
- User ID connects to the ID from the user table
- Recipe ID connects to the ID from the recipe table

#### Recipe:

- Recipe ID is an integer since the serial primary key for each table has to be an integer.
- Recipe name is a VarChar to allow user to title their recipes as well as allow a character limit for the recipe
- Recipe instructions is a string to allow for a larger field of text to be used for instructions instead of VarChar which has a hard limit of 255 characters
- Recipe visibility is a boolean to allow recipes to be made public or left private.
   Since theres only two states the visibility can be in its best to use a boolean for a true or false.

## • Recipe Ingredient:

- Recipe ingredient ID is an integer since the serial primary key for each table has to be an integer.
- Recipe ID connects to the ID from the recipe table
- Ingredients ID connects to the ID from the ingredients table

#### Ingredients:

- Ingredients ID is an integer since the serial primary key for each table has to be an integer.
- Ingredients is a Varchar to allow user to input an ingredient and a character limit for each entry.

# Ingredients Grocery:

- Ingredients Grocery ID is an integer since the serial primary key for each table has to be an integer.
- o Ingredients ID connects to the ID from the ingredients table
- Grocery ID connects to the ID from the grocery table

```
CREATE TABLE grocery_list(
grocery_list_id SERIAL PRIMARY KEY
);

CREATE TABLE users(
    users_id SERIAL PRIMARY KEY,
email VARCHAR(200) UNIQUE,
username VARCHAR(200) UNIQUE,
password VARCHAR(250),
name VARCHAR(50),
grocery_list_id INTEGER REFERENCES grocery_list(grocery_list_id)
);

CREATE TABLE recipe (
recipe_id SERIAL PRIMARY KEY,
recipe_name VARCHAR(200) UNIQUE,
```

```
recipe instructions VARCHAR(200),
 recipe_visibility boolean
);
CREATE TABLE ingredients (
ingredients id SERIAL PRIMARY KEY,
 ingredients VARCHAR(200) UNIQUE
);
CREATE TABLE occasion (
occasion id SERIAL PRIMARY KEY,
occasion_name VARCHAR(255)
);
CREATE TABLE users recipe (
users_recipe_id SERIAL PRIMARY KEY,
users_id INTEGER REFERENCES users(users_id),
recipe id INTEGER REFERENCES recipe(recipe id)
);
CREATE TABLE recipe ingredient (
recipe_ingredient_id SERIAL PRIMARY KEY,
recipe id INTEGER REFERENCES recipe(recipe id),
ingredients id INTEGER REFERENCES ingredients(ingredients id)
);
CREATE TABLE ingredient_grocery (
ingredient grocery id SERIAL PRIMARY KEY,
ingredients_id INTEGER REFERENCES ingredients(ingredients_id),
grocery_list_id INTEGER REFERENCES grocery_list(grocery_list_id)
);
CREATE TABLE recipe_occasion (
recipe occasion id SERIAL PRIMARY KEY,
recipe_id INTEGER REFERENCES recipe(recipe_id),
occasion_id INTEGER REFERENCES occasion(occasion_id)
);
```