Brainstorming

- User can sign up into app with email and password
    - User Information
        - Email
        - Password

- Author can create recipes
    - Author can add ingredients
    - Can be public or private

- User can view other recipes
    - Recipes being viewed
      Recipes ingredients

- User can add ingredients from recipe to grocery list
    - Recipe ingredients
    - User grocery list

- User can assign recipe to occasion
    - Recipe picked
    - User's occasion

Table Ideas

- User - Holds user person information and login information.
    - User_id
    - Name
    - Email
    - Password
- Recipe- this table will hold who created the recipe and recipe details
    - User_id
    - Recipe_id
    - recipe_name
    - Instructions
    - Ingredients
    - public ?
- Saved_recipes - Recipes the user saved.
    - Recipe_id
    - User_id
- Grocery_list- hold ingredients user saved
    - Grocery_list_id
    - user_id
    - Recipe_id
    - Ingredients

- Occasions- Recipes the user saved for special occasions and what the special occasions are.
    - Occasions_id
    - user_id
    - occasion_name
    - Recipe_id
    - Date

Relationships

One to one

None because all our tables are connected to at least 2 other tables.

One to many

User to recipe

User to grocery_list

User to occasions

The users will be one to many because each user can have multiple recipes, grocery lists, and occasions.

Occasions to recipe

Occasions can have multiple recipes assigned to them

Grocery_list to user

Grocery_list to recipe

The grocery_list will be one to many because it gains the user_id when it saves the ingredients to the profile. It also saves the ingredients obtained from the recipe.

Many to many

Saved_recipe to user

Saved_recipe to recipe

Saved_recipe to occasion

Saved_recipe is a many to many relationship because a recipe can be saved by multiple users and a user can save multiple recipes.

Occasions to recipe

Occasions can have multiple recipes assigned to them and recipes can be assigned to multiple

Columns

User

Users_id	name	Email	Password
Assigning Serial primary Key Number to each user. Integer because its a	Varchar: Getting the user's name.	Varchar: Used to log in, unique to each user	Varchar: Getting a unique password for the user

number.			

Recipe

User_id	recipe_id	Recipe_name	instructions	ingredients	public
Foreign key assigning the user ID recipe.	Assign id to recipe, primary key	Name of the recipe. Varchar because it's a text with a limited number of characters.	where users can add instructions. Varchar because it’s a text with a limited number of characters.	Ingredients used in the recipe. Varchar because its a text with a number of characters.	Boolean for if the recipe is public or private.

saved_recipe

recipe _id	user_id
Foreign key to assign recipe id to recipe saved	Foreign key Assigning the user Id of the user who saved the recipe.

grocery_list

grocery_list_id	user_id	recipe_id	ingredients
Primary key to assign id to grocery list	Foreign key to assign user to grocery list	Foreign key assigning the recipe ingredients to the grocery list	Foregin key to add ingredients to grocery list

occasion

occasion_id	user_id	occasion_name	recipe_id	occasion_date
Assigning the ID to the occasion. Integer because its a number.	Foreign key to assign user to occasion	User can name their occasion. Varchar because its a text with a limited number of characters.	Foreign key to add recipes to occasion	Assigning the date of the occasion listed. Used a date, because its a specific time of the year.

```
create table users (
  users_id serial primary key,
  name varchar(50),
  email varchar,
  password varchar
 );

 create table recipe(
   recipe_id serial primary key,
   users_id integer not null references users(users_id),
   recipe_name varchar(100),
   instructions varchar,
   ingredients varchar unique,
   public boolean
  );

create table saved_recipe (
 users_id integer not null references users(users_id),
 recipe_id integer not null references recipe(recipe_id)
 );

create table grocery_list (
grocery_list_id serial primary key,
users_id integer not null references users(users_id),
recipe_id integer not null references recipe(recipe_id),
 ingredients varchar not null references recipe(ingredients)
);

create table occasion (
  occasion_id serial primary key,
  users_id integer not null references users(users_id),
  occasion_name varchar(100),
  recipe_id integer not null references recipe(recipe_id),
  occasion_date date
 );

insert into users(email, password, name)
values ('Josh@cool.com', 'hellothere', 'josh');
insert into recipe(instruction, recipe_name, user_id, public, ingredients)
values ('add some salt and water', 'salt-water', 2, true, '50 cups salt and 50 cups water');

select * from recipe;
```