Brainstorming

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

Data:

- · Username
- · Password
- · First name
- Last name
- · Email
- · Ingredients
- · Instructions (cook time, prep time, cutting, boiling, measurements, etc)
- · Recipe id
- · User who created recipe
- · Recipe name
- · Public or private recipe
- · Who viewed your recipe
- · Grocery list name
- · Occasions

Data:

- email
- Password
- Users
- Recipes
- Ingredients
- Occasions
- Permissions

Table Ideas:

- 1. Users: This table will hold user information for login/verification purposes
 - a. User_id
 - b. user_name
 - c. First_name

	А	Last name
		Email
	_	Password
	1.	rassword
2.	·	
		ual or multiple authors depending on permissions and visibility.
	a.	Recipe_id
		i. We need recipe ID in order to have a unique recipe number
		ii. SERIAL so that it's unique
	b.	Instructions
		i. We need written instructions for the recipe
		ii. This is was it is a VARCHAR
	C.	Ingredients
		i.
		Recipe_name
		occasion_id
		User_id
	g.	Permissions
	h.	Visibility (public or private)
3.	Occasion: This table will hold occasions that users create and the recipes they	
	assign/attach to the occasion.	
	a.	occasion _id
	b.	Occasion_name
	C.	User_id
	d.	Recipe_id
	e.	Grocery list
4.	Groce	ry list: This table will name all the ingredients for a recipe and/or occasion
	a.	groceryList_id
	b.	groceryList_name

5. Ingredient list: This will name all the ingredients with a dedicated id.

c. Occasion_idd. User_ide. Ingredients

a. Ingredient_idb. ingredient_ name

c. Recipe_id

d.

Relationships

One-to-one

Users - Recipes (private ones)

One-to-many

Recipe Occasion (occasions not required in recipe)

Many-to-many

Users - Recipes (public/collaborative ones)

Users - Occasions

Recipe - Occasion (several recipes)

Columns

Users:

- User id
 - o Gives users ability to have unique Id
 - SERIAL: so that it's unique
- Username
 - o Gives users ability to login with username
 - VARCHAR: user can create username
- First_name
 - Simple info needed for app registration
 - VARCHAR: user can enter first name
- Last name
 - Simple info Needed for app registration
 - VARCHAR: user can enter last name
- Email
 - Connecting user for authentication
 - VARCHAR: user can enter email
- Password
 - Allows user to login
 - VARCHAR: user can make strong password

Recipe:

- e. Recipe id
 - i. We need recipe ID in order to have a unique recipe number
 - ii. SERIAL so that it's unique
- f. Instructions
 - i. We need written instructions for the recipe
 - ii. This is was it is a VARCHAR
- g. ingredients_ID
 - i. Need specific ingredients
 - ii. INT because we are referencing a foreign ID

- h. Recipe_name
 - i. Need a name for the recipe
 - ii. VARCHAR to name it
- i. Occasion id
 - i. Need a specific occasion ID.
 - ii. INT because we are referencing a foreign key.
- j. User id
 - i. Need to reference a unique user
 - ii. INT because we reference a foreign key
- k. Permissions
 - i. Does the user have permission to edit?
 - ii. Boolean to check if the user does or doesnt
- I. Visibility (public or private)
 - i. Is the Recipe public or private?
 - ii. Boolean to determine if public or private

Grocery List:

- Grocerylist_id
 - To keep each grocery list separate
 - o Serial: so it's unique
- Grocerylist_name
 - o Gives user ability to infer what is on the list
 - VARCHAR: to name it
- User id
 - Needs to reference a unique user
 - INT: referencing a foreign key
- Occasion id
 - List can be associated with ingredients that are for a specific occasion
 - INT: referencing a foreign key
- Ingredient name
 - List of names for the ingredients
 - VARCHAR long enough for list

Ingredient list:

- m. Ingredient_id
 - The ingredient has to be unique (mozzarella cheese, purple grapes)
 - ii. SERIAL because it is unique
- n. ingredient_name
 - i. it could just be grapes
 - ii. VARCHAR to write
- o. Recipe_id

- i. Ingredients could have several recipes
- ii. INT to reference foreign key

Occasion:

- Occasion id
 - Needs a unique id for a unique occasion
 - SERIAL to not have a repeated occasion
- Occasion_name
 - Needs a name for it
 - VARCHAR to write it
- User id
 - Needs to be a user who is creating occasion
 - INT: to reference foreign key
- Recipe_id
 - o Recipe can be used for this specific occasion
 - o INT: to reference foreign key

```
-- CREATE TABLE users (
-- user id SERIAL PRIMARY KEY,
-- username VARCHAR(128) NOT NULL,
-- first name VARCHAR (128) NOT NULL,
-- last name VARCHAR (128) NOT NULL,
-- email VARCHAR (128) NOT NULL,

    password VARCHAR(128) NOT NULL

-- );
-- CREATE TABLE ingredients(
-- ingredient_id SERIAL PRIMARY KEY,
-- ingredient_name VARCHAR (255)
-- -- recipe id INT REFERENCES recipe(recipe id)
-- );
-- ALTER TABLE ingredients
-- ADD recipe_id INT REFERENCES recipe(recipe_id)
-- CREATE TABLE recipe (
recipe_id SERIAL PRIMARY KEY,
-- user id INT REFERENCES users(user id),
-- instructions VARCHAR(10000) NOT NULL,

    ingredient_id INT REFERENCES ingredients(ingredient_id),

-- permissions BOOLEAN NOT NULL,
```

-- private BOOLEAN NOT NULL

```
-- );
-- CREATE TABLE occasion (
-- occasion_id SERIAL PRIMARY KEY,
-- occasion_name VARCHAR (1082),
-- user_id INT REFERENCES users(user_id),
-- recipe_id INT REFERENCES recipe(recipe_id)
-- );
-- CREATE TABLE grocery_list (
-- grocerylist_id SERIAL PRIMARY KEY,
-- grocerylist_name VARCHAR(255),
-- user_id INT REFERENCES users(user_id),
-- occasion_id INT REFERENCES occasion(occasion_id),
-- ingredient_name VARCHAR(255) NOT NULL
-- );
-- ALTER TABLE grocery_list
-- ADD ingredient_name VARCHAR (255) REFERENCES ingredients(ingredient_name);
-- ALTER TABLE ingredients
```

-- ALTER COLUMN ingredient_name VARCHAR (255)PRIMARY KEY NOT NULL;