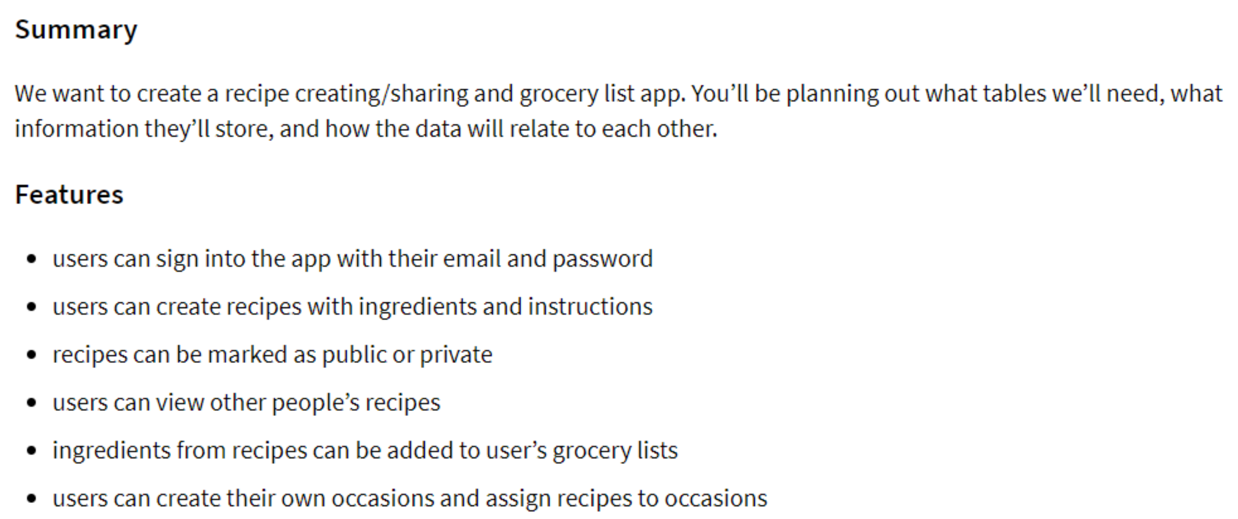


Summary

We want to create a recipe creating/sharing and grocery list app. You'll be planning out what tables we'll need, what information they'll store, and how the data will relate to each other.

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

BRAINSTORM

- User login information (username)
- Auth information (email/password)
- User's recipes (ingredients/instructions/public vs. private)
- Grocery list(ingredients from recipes)

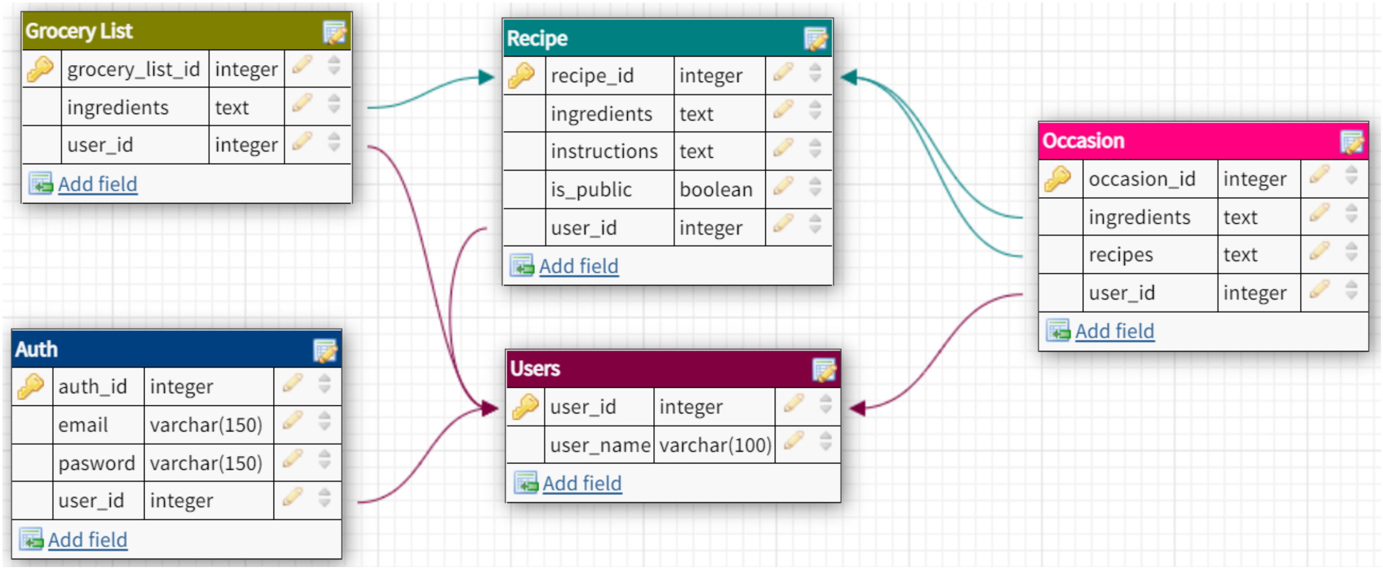
TABLE IDEAS

- Users
  - username
- Auth
  - Email
  - password
- Recipes
  - Ingredients
  - Instructions
  - public/private
- Grocery List
  - Ingredients from recipes/ ingredients to buy
- Occasions
  - recipes

RELATIONSHIPS

- **ONE TO ONE**
  - User to Auth (There is onl;y one user to their unique info)
- **ONE TO MANY**
  - Users to Recipes (One user can have many recipes)
  - User to Grocery List (One user can have many grocery lists)
  - User to Occasions (One user can have many occasions)
- **MANY TO MANY**
  - Recipes to Occasions (There is many recipes for many occasions)
  - Recipes to Grocery List (Many ingredients from different recipes can be added to many grocery lists)

COLUMNS



Grocery List	
grocery_list_id	integer
ingredients	text
user_id	integer

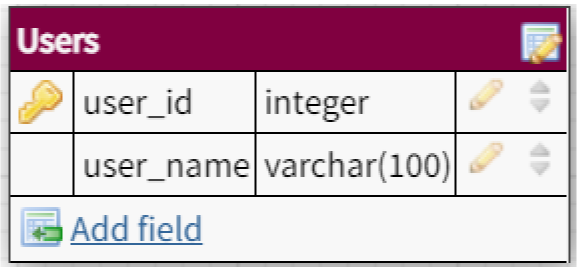
Recipe	
recipe_id	integer
ingredients	text
instructions	text
is_public	boolean
user_id	integer

Occasion	
occasion_id	integer
ingredients	text
recipes	text
user_id	integer

Auth	
auth_id	integer
email	varchar(150)
pasword	varchar(150)
user_id	integer

Users	
user_id	integer
user_name	varchar(100)

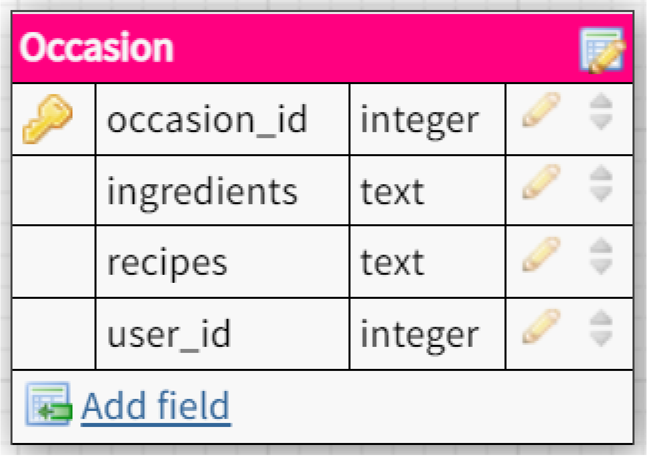
<u>Users</u>



Users	
user_id	integer
user_name	varchar(100)

- Chose the user id and user name because it relates specifically to the user
  - Chose integer for user_id because that will be the designator of each user
  - Chose varchar for user_name and made it unique so that each user could have a unique name of less than 100 characters

<u>Occasions</u>

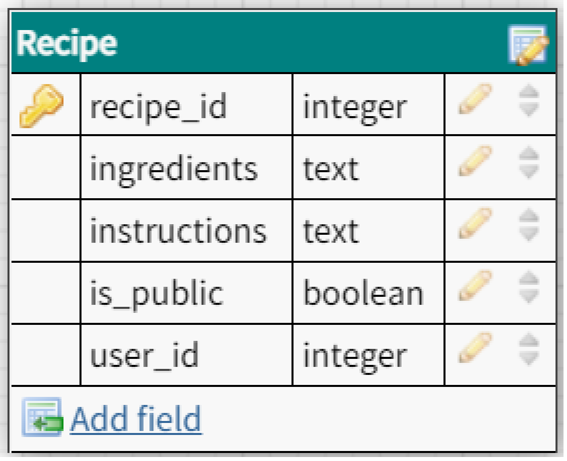


Occasion	
occasion_id	integer
ingredients	text
recipes	text
user_id	integer

- Chose recipes in occasions because users will input what recipes they want for various occasions of their choosing
- Chose ingredients because each recipe will have various ingredients
- Chose user_id because each occasion will be linked to one User

  - Chose text because it will already be chosen from recipes
  - Chose integer because that is the value of the SERIAL KEY

Recipes

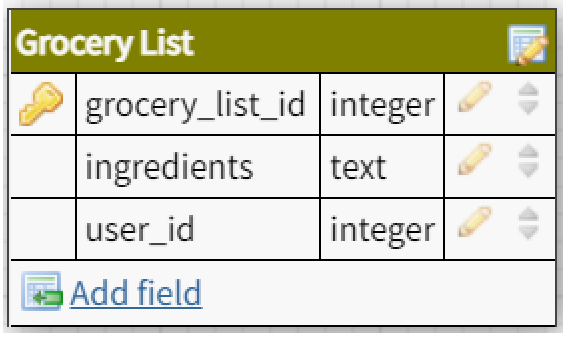


Recipe

🔑	recipe_id	integer
	ingredients	text
	instructions	text
	is_public	boolean
	user_id	integer

- Ingredients will represent the ingredients needed for the recipe as text with no limit because it can require a lot of ingredients
- Instructions will represent the instructions to cook the recipe as text with no limit because it can require a lot of ingredients
- Is_public will determine if it is available to the public or if its private as bool because it will either be public = true or false
- User_id is attached to the user that made the recipie

Grocery List

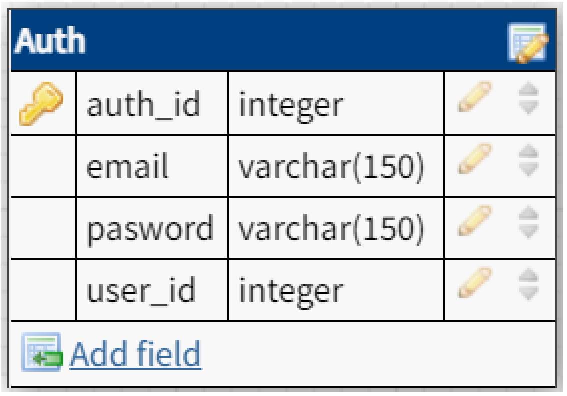


Grocery List

🔑	grocery_list_id	integer
	ingredients	text
	user_id	integer

- Ingredients represents the ingredients needed to buy from the grocery that were used in 1 of the recipes and in text with no limit because some can require a lot
- User_id is linked to the users table so we know which user uploaded the recipe

Auth



Auth

🔑	auth_id	integer
	email	varchar(150)
	pasword	varchar(150)
	user_id	integer

- We chose email as the storing data because it is a must to make an account and we chose varchar to limit how long it is down to 150 characters.
- Password to store their password and varchar for the same reason as the email
- User id from the users table to link them together

POSTGRES TABLE CODE

```
CREATE TABLE res_user(
        user_id SERIAL PRIMARY KEY,
        User_name VARCHAR(100)
);

CREATE TABLE auth (
        auth_id SERIAL Primary KEY,
        email VARCHAR(150),
        password VARCHAR(150),
        user_id INTEGER NOT NULL REFERENCES res_user(user_id)
);

CREATE TABLE recipe (
        recipe_id SERIAL Primary KEY,
        Ingredients TEXT,
        Instructions TEXT,
        Is_public BOOL,
        user_id INTEGER NOT NULL REFERENCES res_user(user_id)
);

CREATE TABLE grocery (
        grocery_id SERIAL PRIMARY KEY,
        ingredients TEXT NOT NULL REFERENCES recipe(Ingredients),
        user_id INTEGER NOT NULL REFERENCES res_user(user_id)
);
```

```
CREATE TABLE occasions(
	occasions_id SERIAL PRIMARY KEY,
	recipes TEXT NOT NULL REFERENCES recipe(instructions),
	Ingredients TEXT NOT NULL REFERENCES recipe(ingredients),
	user_id INTEGER NOT NULL REFERENCES res_user(user_id)
);
```

TABLE CODE MADE BY DBDESIGN

```
CREATE TABLE "public.Recipies" (
	"recipie_id" serial NOT NULL,
	"ingredients" TEXT NOT NULL,
	"instructions" TEXT NOT NULL,
	"is_public" BOOLEAN NOT NULL,
	"user_id" BINARY NOT NULL
) WITH (
  OIDS=FALSE
);

CREATE TABLE "public.Grocery List" (
	"grocery_id" serial NOT NULL,
	"ingredients" TEXT NOT NULL,
	"user_id" integer NOT NULL
) WITH (
  OIDS=FALSE
);

CREATE TABLE "public.Occasions" (
	"occasions_id" serial NOT NULL,
	"instructions" TEXT NOT NULL,
	"ingredients" TEXT NOT NULL,
	"user_id" integer NOT NULL
) WITH (
  OIDS=FALSE
);

CREATE TABLE "public.Users" (
	"user_id" serial NOT NULL,
	"user_name" varchar(100) NOT NULL UNIQUE,
	CONSTRAINT "Users_pk" PRIMARY KEY ("user_id")
) WITH (
  OIDS=FALSE
);
```

```
CREATE TABLE "public.Auth" (
	"auth_id" serial NOT NULL,
	"email" varchar(150) NOT NULL UNIQUE,
	"pasword" varchar(150) NOT NULL UNIQUE,
	"user_id" integer NOT NULL,
	CONSTRAINT "Auth_pk" PRIMARY KEY ("auth_id")
) WITH (
  OIDS=FALSE
);



ALTER TABLE "Recipies" ADD CONSTRAINT "Recipies_fk0" FOREIGN KEY
("user_id") REFERENCES "Users"("user_id");

ALTER TABLE "Grocery List" ADD CONSTRAINT "Grocery List_fk0" FOREIGN
KEY ("ingredients") REFERENCES "Recipies"("ingredients");
ALTER TABLE "Grocery List" ADD CONSTRAINT "Grocery List_fk1" FOREIGN
KEY ("user_id") REFERENCES "Users"("user_id");

ALTER TABLE "Occasions" ADD CONSTRAINT "Occasions_fk0" FOREIGN KEY
("instructions") REFERENCES "Recipies"("instructions");
ALTER TABLE "Occasions" ADD CONSTRAINT "Occasions_fk1" FOREIGN KEY
("ingredients") REFERENCES "Recipies"("ingredients");
ALTER TABLE "Occasions" ADD CONSTRAINT "Occasions_fk2" FOREIGN KEY
("user_id") REFERENCES "Users"("user_id");


ALTER TABLE "Auth" ADD CONSTRAINT "Auth_fk0" FOREIGN KEY ("user_id")
REFERENCES "Users"("user_id");
```