### 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

## Brainstorming/data needed:

- User email
- User password
- User name
- Recipes
- Recipe public or not public
- Instructions
- Ingredients
- Grocery lists
- Occasion name
- Occasion recipes
- Occasion owner
- Occasion Date

## Tables:

User table:

- User_id
- User_email
- User_password
- User_name

This table will hold information about users, each row will be a individual user.

Recipe Table:

- Recipe_id
- recipe _name
- Recipe_instructions
- Is_public
- Creator_of_recipe
- Ingredients

This table will hold information about recipes, including instructions and ingredients. Each row will be an individual recipe.

Grocery List Table:

- user_id(foreign)
- Grocery list id

This table will hold information about the grocery lists, each row will be each grocery list assigned to a user.

GroceryRecipeTable:

Recipe_id(foreign)
grocery_list_id(foreign)

Occasions Table:

- Creator_of_occasion
- Occasion_name
- Ocassion_date
- Occasion_notes

This table will hold information about occasions, each row will be an individual occasion.

Occasions Recipes Table:

- Occasion_id
- Recipe_id

## Relationships:

One to One:

One to Many:

- User ⇒ occasions
- User ⇒ Grocery List
- User ⇒ Recipes
- Grocery List => Recipes

Many to Many:

- Occasions ⇒ Recipes

## Data Modeling:

CREATE TABLE users(
user_id SERIAL PRIMARY KEY,

```
user_email VARCHAR(50),
user_password VARCHAR(50),
user_first_name VARCHAR(30),
user_last_name VARCHAR(30)
);

CREATE TABLE recipe (
recipe_id SERIAL PRIMARY KEY,
recipe_name VARCHAR(50),
recipe_instructions VARCHAR(1000),
is_public BOOLEAN,
recipe_creator INT NOT NULL REFERENCES users(user_id),
recipe_ingredients VARCHAR(1000)
);

CREATE TABLE grocery_list(
grocery_list_id SERIAL PRIMARY KEY,
grocery_list_owner INT NOT NULL REFERENCES users(user_id)
);

CREATE TABLE grocery_recipe_table(
grocery_recipe_id SERIAL PRIMARY KEY,
recipe_id INT NOT NULL REFERENCES recipe(recipe_id),
grocery_list_id INT NOT NULL REFERENCES grocery_list(grocery_list_id)
);

CREATE TABLE occasions(
occasion_id SERIAL PRIMARY KEY,
occasion_creator INT NOT NULL REFERENCES users(user_id),
occasion_name VARCHAR(50),
occasion_date TIMESTAMP,
occasion_notes TEXT
);


CREATE TABLE occasion_recipes_table(
occasion_recipe_id SERIAL PRIMARY KEY,
occasion_id INT NOT NULL REFERENCES occasions(occasion_id),
recipe_id INT NOT NULL REFERENCES recipe(recipe_id)
);
```

LINK to DBDiagram: https://dbdiagram.io/d/615e072f940c4c4eec88e06f