Features:

- Users – email and password to login
- Users – create recipes with ingredients and instructions
- Users – can view other people's recipes
- Users – can create their own occasions and assign recipes to them (like holiday, dinner, breakfast, etc).
- Recipes can be marked public or private
- Ingredients from recipes can be added to user's grocery list

Brainstorming:

- Users
- Grocery List
- Recipes
- Ingredients
- Occasions
- Favorite recipes
- Recipe privacy
- Instructions
- Viewed before?
- Authorization Information
- Recipe rating
- Date created
- Number of Likes
- Number of shares
- Recipe Categories
- Time needed to cook/prep
- Servings
- Pictures
- Comments
- Saved users

Table Ideas:

- User - holds user info - each row will be an individual users
- Grocery_List - holds grocery list - each row will be an individual lists?
- Recipe - holds recipe info - each row will be an individual recipe
- Occasion - holds occasion info - each row will hold a newly created occasion by user
- Auth - holds user auth info - each row will be an individual auth
- Category - holds category info - each row will be its own category
- Follows - holds follower info - each row will be an individual follow
- Saved_Recipe - holds saved recipes info - each row will be a saved recipe
- Comment - holds comments info - each row will be an individual comment

Relationships:

One to One:

- User to Auth - a single row relationship to each other

One to Many:

- User to Recipe - since this is an app that lets users create and then share recipes, a user can make many recipes but their recipes can't have any other user but the creator

Many to Many:

- Follows - connects user to user
- Occasion - connects a created and saved recipe and to the user
- Comment - connects the user and the recipe
- Category - connects the recipe with through association table
- Grocery_List - connects to recipe's list of ingredients and to user it belongs to
- Ingredients - recipes and grocery list

SQL Code used:

```
CREATE TABLE users(
	user_id SERIAL PRIMARY KEY,
  username VARCHAR(20),
  user_pic_url TEXT
);

CREATE TABLE ingredients(
	ingredients_id SERIAL PRIMARY KEY,
  name VARCHAR(20)
);

CREATE TABLE recipe(
	recipe_id SERIAL PRIMARY KEY,
  ingredients_id INTEGER NOT NULL REFERENCES ingredients(ingredients_id),
  created_by_user_id INTEGER NOT NULL REFERENCES users(user_id),
  add_to_grocery_list BOOLEAN,
  name VARCHAR(50),
  rating INTEGER,
  prep_time TIME,
  cook_time TIME,
  instructions TEXT
);

CREATE TABLE grocery_list(
  grocery_list_id SERIAL PRIMARY KEY,
  ingredients_of_recipe_id INTEGER NOT NULL REFERENCES recipe(recipe_id),
  grocery_for_user_id INTEGER NOT NULL REFERENCES users(user_id),
  name VARCHAR(50)
);

CREATE TABLE auth(
  auth_id SERIAL PRIMARY KEY,
  user_id INTEGER NOT NULL REFERENCES users(user_id),
  email VARCHAR(100),
  password TEXT
);

CREATE TABLE follows(
  follows_id SERIAL PRIMARY KEY,
  following_id INTEGER NOT NULL REFERENCES users(user_id),
  follwer_id INTEGER NOT NULL REFERENCES users(user_id),
  date_followed DATE
```

```
);

CREATE TABLE comment(
  comment_id SERIAL PRIMARY KEY,
  user_id INTEGER NOT NULL REFERENCES users(user_id),
  recipe_id INTEGER NOT NULL REFERENCES recipe(recipe_id),
  body TEXT
);

CREATE TABLE saved_recipe(
  saved_recipe_id SERIAL PRIMARY KEY,
  creator_id INTEGER NOT NULL REFERENCES users(user_id),
  recipe_id INTEGER NOT NULL REFERENCES recipe(recipe_id)
);

CREATE TABLE occasion(
  occasion_id SERIAL PRIMARY KEY,
  user_id INTEGER NOT NULL REFERENCES users(user_id),
  saved_recipe_id INTEGER NOT NULL REFERENCES saved_recipe(saved_recipe_id),
  name VARCHAR(50)
);

CREATE TABLE category(
  category_id SERIAL PRIMARY KEY,
  name VARCHAR(20)
);

CREATE TABLE categorized_recipes(
  categorized_recipes SERIAL PRIMARY KEY,
  recipe_id INTEGER NOT NULL REFERENCES recipe(recipe_id),
  category_id INTEGER NOT NULL REFERENCES category(category_id)
);

INSERT INTO users (username, user_pic_url)
VALUES ('Aranvihn', 'https://fakepic.com/pic'),
        ('Steve', 'https://fakephoto.com/photo'),
        ('Earl', 'https://fakeid.com/id')

INSERT INTO auth (email, password, user_id)
VALUES ('aranvihn@gmail.com', 'ttiknee32*#4', (SELECT user_id FROM users WHERE
username='Aranvihn')),
        ('steve@hotmail.com', 'die9d83n3@!', (SELECT user_id FROM users WHERE
username='Steve')),
```

```
        ('earl@yahoo.com', 'earlisgreat', (SELECT user_id FROM users WHERE
username='Earl'))

SELECT * FROM auth;
```