

Recipe Sharing and Grocery List App

Brainstorming – what needs to be kept track of

- User Info
 - o Name
 - o ID
 - o Email
 - o Password
 - o Recipes
 - o Grocery List
 - o Events/Occasions
- Recipe Info
 - o Instructions
 - o Ingredients
 - o Ingredient measures
 - o Nutritional Data
- Ingredients Info
 - o Name
 - o ID
 - o Nutritional Data
 - Macros
 - Calories
- Grocery List
 - o User ID
 - o Ingredient Name

Table Ideas

One-to-One

- Author data
- Authentication
- Events

One-to-Many

- User data
- Grocery List

Many-to-Many

- Ingredient data
- Recipe Data

SQL Code:

```
create table Authentication_data (  
  user_name varchar(30) PRIMARY KEY,  
  password text,  
  email varchar(50)  
);
```

```
create table User_Data (  
    user_name varchar(30) REFERENCES Authentication_data(user_name),  
    user_id SERIAL PRIMARY KEY,  
    saved_recipe_id integer REFERENCES Recipe_data(recipe_id),  
    saved_recipe_name integer REFERENCES Recipe_data(recipe_name),  
    grocery_list_id integer REFERENCES Grocery_list(grocery_list_id)  
);
```

```
create table Grocery_list (  
    grocery_list_id SERIAL PRIMARY KEY,  
    ingredient_name varchar(30) REFERENCES Ingredient_Data(ingredient_name),  
    ingredient_id integer REFERENCES Ingredient_Data(ingredient_id),  
    ingredient_measure varchar(50),  
    ingredient_amount integer  
);
```

```
create table Ingredient_Data (  
    ingredient_name varchar(30) PRIMARY KEY,  
    ingredient_id SERIAL PRIMARY KEY,  
    protein_percent integer,  
    fat_percent integer,  
    carb_percent integer,  
    sodium_percent integer,  
    sugar_percent integer,  
    calorie_count integer,  
    is_vegan boolean,  
    gluten_free boolean  
);
```

```
create table Recipe_data (  
    recipe_name varchar(30) PRIMARY KEY,  
    recipe_id SERIAL PRIMARY KEY,  
    creation_timestamp date,  
    author_id integer REFERENCES Author_Data(author_id),  
    ingredient_name varchar(30) REFERENCES Ingredient_Data(ingredient_name),  
    ingredient_id integer REFERENCES Ingredient_Data(ingredient_id),  
    ingredient_measure varchar(30),  
    ingredient_amount integer,  
    is_private boolean  
);
```

```
create table Author_Data (  
    user_id integer REFERENCES User_Data(user_id),  
    author_id SERIAL PRIMARY KEY,  
    bio text  
);
```

```
create table Events (  
    event_tag varchar(50),  
    event_id SERIAL PRIMARY KEY,  
    recipe_id REFERENCES Recipe_data(recipe_id)  
);
```