

## 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

- User IDs (email, password)
- Ingredients
- Instructions
- Grocery lists
- Recipes
- Occasions

<p>Table Ideas</p> <p>USERS (to store user names)</p> <ul style="list-style-type: none"> <li>• First_name</li> <li>• Last_name</li> </ul> <p>AUTH (to store user emails &amp; password hashes)</p> <ul style="list-style-type: none"> <li>• Foreign key to users(user_id)</li> <li>• Email</li> <li>• Hash</li> </ul> <p>RECIPE (to store recipe information)</p> <ul style="list-style-type: none"> <li>• Name</li> <li>• About</li> <li>• Text of recipe</li> <li>• Public (true/false)</li> <li>• Foreign key to user(user_id)</li> <li>• Foreign key to ingredient(name)</li> <li>• Foreign key to ingredient(amount)</li> </ul> <p>INGREDIENT (to store types &amp; amounts of ingredients)</p> <ul style="list-style-type: none"> <li>• Name</li> <li>• Amount</li> </ul> <p>GROCERY (to make a grocery list including ingredients and the needed amounts)</p> <ul style="list-style-type: none"> <li>• Foreign key to ingredient(name)</li> <li>• Foreign key to ingredient(amount)</li> </ul> <p>OCCASION (to create occasions and store recipes related to them)</p> <ul style="list-style-type: none"> <li>• Foreign key to recipe(name)</li> <li>• Foreign key to users(user_id)</li> </ul>	<p>Relationship Types</p> <p>ONE-TO-ONE</p> <ul style="list-style-type: none"> <li>• Auth to Users(user_id) <ul style="list-style-type: none"> <li>○ Each user has one, unique email/hash</li> </ul> </li> </ul> <p>ONE-TO-MANY</p> <ul style="list-style-type: none"> <li>• Recipe to Ingredient(name) <ul style="list-style-type: none"> <li>○ A recipe can have multiple ingredients</li> </ul> </li> <li>• Recipe to Ingredient(amount) <ul style="list-style-type: none"> <li>○ A recipe can have multiple ingredient amounts</li> </ul> </li> <li>• Users to Recipe <ul style="list-style-type: none"> <li>○ A user can create multiple recipes</li> </ul> </li> <li>• Users to Occasion <ul style="list-style-type: none"> <li>○ A user can create multiple occasions</li> </ul> </li> <li>• Occasion to Recipe(name) <ul style="list-style-type: none"> <li>○ An occasion can have multiple recipes</li> </ul> </li> </ul> <p>MANY-TO-MANY</p>

## Columns

### USERS Table

- User\_id
- First\_name
- Last\_name

### AUTH Table

- Auth\_id
- User\_id
- Email
- hash

### RECIPE Table

- recipe\_id
- name
- about
- text
- public
- fk to ingredient\_name
- fk to ingredient\_amount
- user\_id

### INGREDIENT Table

- ingredient\_id
- name
- amount

### GROCERY Table

- grocery\_id
- fk to ingredient\_name
- fk to ingredient\_amount

### OCCASION Table

- occasion\_id
- fk to recipe\_name
- user\_id

### Create Table Statements

```
CREATE TABLE 'public.users' (  
    'user_id' serial NOT NULL,  
    'first_name' varchar(255) NOT NULL,  
    'last_name' varchar(255) NOT NULL,  
    CONSTRAINT 'users_pk' PRIMARY KEY ('user_id')  
) WITH (  
    OIDS=FALSE  
);
```

```
CREATE TABLE 'public.auth' (  
    'auth_id' serial NOT NULL,  
    'user_id' integer NOT NULL,  
    'email' varchar(255) NOT NULL,  
    'hash' TEXT NOT NULL,  
    CONSTRAINT 'auth_pk' PRIMARY KEY ('auth_id')  
) WITH (  
    OIDS=FALSE  
);
```

```
CREATE TABLE 'public.recipe' (  
    'recipe_id' serial NOT NULL,  
    'name' varchar(255) NOT NULL,  
    'about' varchar(255) NOT NULL,  
    'public' BOOLEAN NOT NULL,  
    'ingredient_name' varchar(255) NOT NULL,  
    'ingredient_amount' integer NOT NULL,
```

```
        'user_id' integer NOT NULL,  
        CONSTRAINT 'recipe_pk' PRIMARY KEY ('recipe_id')  
    ) WITH (  
        OIDS=FALSE  
    );
```

```
CREATE TABLE 'public.ingredient' (  
    'ingredient_id' serial NOT NULL,  
    'name' varchar(255) NOT NULL,  
    'amount' integer NOT NULL,  
    CONSTRAINT 'ingredient_pk' PRIMARY KEY ('ingredient_id')  
    ) WITH (  
        OIDS=FALSE  
    );
```

```
CREATE TABLE 'public.grocery' (  
    'grocery_id' serial NOT NULL,  
    'ingredient_name' serial(255) NOT NULL,  
    'ingredient_amount' serial NOT NULL,  
    CONSTRAINT 'grocery_pk' PRIMARY KEY ('grocery_id')  
    ) WITH (  
        OIDS=FALSE  
    );
```

```
CREATE TABLE 'public.occasion' (  
    'occasion_id' serial NOT NULL,  
    'recipe_name' serial(255) NOT NULL,  
    CONSTRAINT 'occasion_pk' PRIMARY KEY ('occasion_id')  
    ) WITH (  
        OIDS=FALSE
```

);

ALTER TABLE 'auth' ADD CONSTRAINT 'auth\_fk0' FOREIGN KEY ('user\_id') REFERENCES 'users'('user\_id');

ALTER TABLE 'recipe' ADD CONSTRAINT 'recipe\_fk0' FOREIGN KEY ('ingredient\_name') REFERENCES 'ingredient'('name');

ALTER TABLE 'recipe' ADD CONSTRAINT 'recipe\_fk1' FOREIGN KEY ('ingredient\_amount') REFERENCES 'ingredient'('amount');

ALTER TABLE 'recipe' ADD CONSTRAINT 'recipe\_fk2' FOREIGN KEY ('user\_id') REFERENCES 'users'('user\_id');

ALTER TABLE 'grocery' ADD CONSTRAINT 'grocery\_fk0' FOREIGN KEY ('ingredient\_name') REFERENCES 'ingredient'('name');

ALTER TABLE 'grocery' ADD CONSTRAINT 'grocery\_fk1' FOREIGN KEY ('ingredient\_amount') REFERENCES 'ingredient'('amount');

ALTER TABLE 'occasion' ADD CONSTRAINT 'occasion\_fk0' FOREIGN KEY ('recipe\_name') REFERENCES 'recipe'('name');