

Brainstorming

1. User email
2. User password
3. Recipes by name
4. Ingredients
5. Measurements
6. View-public or private
7. Grocery lists
8. Occasions

Table Ideas

Users: name, password, recipes, grocery lists, occasions

Recipes: name, public or private, ingredients, occasions, user

Ingredients: name, recipes, instructions

Instructions: name, user, recipe

Grocery Lists: name, user, time/date stamp

Occasions: name, users, recipes

Used first 3 tables, added Users/Recipes, Users/GroceryLists, and Users/Occasions.

Relationships

One-to-One:

Recipes/Instructions because each recipe has instructions and each instruction belongs to a recipe.

One-to-Many:

Users/Recipes table because each user can have multiple recipes, but the recipe was created by one user.

Users/Grocery Lists because each user can have multiple grocery lists, but each grocery list was created by one user.

Many-to-Many

Users/Occasions because each user can have multiple occasions, and each occasion can be selected by multiple users.

Recipes/Ingredients because each recipe can have multiple ingredients, and each ingredient can be in multiple recipes.

Columns

Users: reference file for unique users with primary key, name, password

Users/Recipes: stores recipes created by user with a date/time stamp

Users/GroceryLists: stores grocery lists by user with ingredients, date/time stamp

Users/Occasions: stores occasions selected by user and recipes selected per occasion.

Recipes: Recipe file per unique recipe and ingredients/instructions per recipe. Also includes viewing options (public or private)

Ingredients: ingredient file

```
create table users (
```

```
    user_id serial primary key,
```

```
    username text not null,
```

```
    password text not null
```

```
);
```

```
create table ingredients (
```

```
    ingredient_id serial primary key,
```

```
    ingredient text not null
```

```
);
```

```
create table recipes (
```

```
    recipe_id serial primary key,
```

```
    ingredient_id int not null references ingredients(ingredient_id),
```

```
instructions text,  
viewoptions text  
);
```

```
create table userrecipes (  
  userrecipes_id serial primary key,  
  user_id int not null references users(user_id),  
  recipe_id int not null references recipes(recipe_id)  
);
```

```
create table usergrocerylists (  
  usergrocerylists_id serial primary key,  
  user_id int not null references users(user_id),  
  grocerylist text not null  
);
```

```
create table useroccasions (  
  useroccasions_id serial primary key,  
  user_id int not null references users(user_id),  
  occasion text not null  
);
```