

User email  
User password  
Users name  
Users location  
User contributions  
Users saved recipes  
Users recipes/instructions  
Users ingredients  
Recipes saved popularly  
Recipe name  
Recipe category  
Recipe occasion  
Recipe private/public  
Recipe ingredients  
Recipe directions  
Recipes duration  
Recipe difficulty  
Recipe quantity served  
Recipe kitchenware  
Ingredient name  
Ingredient type  
List name  
List username  
List occasion  
List timestamp  
List private/public  
List ingredients  
Other users recipes  
Other users ingredients  
Other users user name  
Other users grocery list  
Other occasion recipes  
Occasion name  
Occasion recipes  
Occasion list  
Occasion quantity

## Table Ideas

User table: will store users information, contributions, and saved recipes

- User email
- User password
- Users name
- Users location
- User contributions
- Users saved recipes

Recipe: will stores necessary information about recipes (cookware, ingredients, etc) and users recipes

- Users recipes/instructions
- Users ingredients
- Recipes saved popularly
- Recipe name
- Recipe category
- Recipe occasion
- Recipe private/public
- Recipe ingredients
- Recipe directions
- Recipes duration
- Recipe difficulty
- Recipe quantity served
- Recipe kitchenware

Ingredient: will store ingredients for recipe and ingredient type

- Ingredient name
- Ingredient type

List: will store user ingredients, information, and recipes

- List name
- List username
- List occasion
- List timestamp
- List private/public
- List ingredients

Other users: will access other people saved recipe, ingredients, list etc

- Other users recipes
- Other users ingredients
- Other users user name
- Other users grocery list

Occasion recipe: will store ingredients, recipes, list for special events

- Other occasion recipes
- Occasion name
- Occasion recipes
- Occasion list

## Relationships

### User table

- User email
- User password
- Users name
- Users location
- User contributions(any recipe character, recipes) **(one to many)**
- Users saved recipes **(one to many)**

### recipe

- Users recipes/instructions
- Users ingredients (ingredient id) **(one to many)**
- Recipes saved popularly **(many to many)**
- Recipe name
- Recipe category
- Recipe occasion (list occasion) **(one to many)**
- Recipe private/public
- Recipe directions
- Recipes duration
- Recipe difficulty
- Recipe quantity served
- Recipe kitchenware

### ingredient

- Ingredient name(recipe ingredients) **(many to many)**
- Ingredient type

### List

- List name
- List creator **(one to one)**
- List occasion (occasions) **(one to many)**
- List timestamp
- List private/public (recipe public/private)
- List ingredients **(many to many)**
- List recipes **(one to many)**

### Other users

- Other users recipes (users contribution and users saved recipes) **(one to many)**
- Other users ingredients (ingredients, and recipe ingredients) **(one to many)**
- Other users user name (users name) **(one to one)**
- Other users grocery list (list)**(one to many)**

Occasion recipe

- Other occasion recipes (other users recipe) (**one to many**)
- Occasion name
- Occasion recipes(recipes) (**many to many**)
- Occasion list (list occasion) (**one to many**)

## BRAINSTORMING

User name

User email

User password

User recipes

User saved recipes

Recipe name

Recipe occasion

Recipe private/public

Recipe ingredients

Recipe directions

Recipe duration

Recipe difficulty

Recipe quantity

Recipe popularity

Recipe kitchenware

Ingredient name

Ingredient type

List name

List user

List ingredients

List occasion

List timestamp

List public/private

Occasion name

Occasion recipes

Occasion list

## TABLE IDEAS

user - contains user information and connected recipes and lists.

- name
- email
- password

recipe - contains details about recipe including creator, ingredients, and saves.

- name
- public
- directions
- duration
- difficulty
- quantity
- kitchenware

ingredients - a table to store ingredient names for use in lists and recipes.

- name
- type

lists - table to store users ingredients for specific recipes and occasions.

- name
- timestamp
- public

occasion - used for storing specific lists and recipes pertaining to different occasions.

- name

// add ons

user\_saved - used to store relationships between users and saved recipes

- user
- recipe

user\_recipe - used to store relationships between users and created recipes

- user
- recipe

user\_list - used to store relationships between users and created lists

- user

list

recipe\_ingredient - used to store relationships between recipes and ingredients  
recipe  
ingredient

recipe\_occasion - used to store relationships between recipes and occasions  
recipe  
occasion

list\_ingredient - used to store relationships between recipes and ingredients  
list  
ingredient

substitutions - used to store relationships between ingredients and similar ingredients  
ingredient  
substitutions

## Relationships

### one to one

occasion --> user      each occasion would have one creator  
recipe --> user      each recipe would have one creator  
list --> user      each list would have one creator

### one to many

list --> ingredients      each list would have many ingredients  
recipe --> ingredients      each recipe would have many ingredients  
recipe --> saved      each recipe would have multiple saves  
occasion --> list      each occasion would relate to many lists

### many to many

user --> recipe      all users have multiple recipes  
user --> saved      all users save multiple recipes

## Columns

### user

user_id	serial given to each user
name	name of user
email	email of user
password	password of user

### recipe

recipe_id	serial given to each recipe
name	name of recipe
public	bool if public or not
directions	directions given by creator
duration	time in minutes the recipe requires
difficulty	difficulty given by creator
quantity	quantity of food in servings
kitchenware	kitchenware required for dish
date_created	timestamp of date created

#### ingredients

ingredient_id	serial given to each ingredient
name	name of ingredient

#### lists

list_id	serial given to each list
name	name of list given
date_created	timestamp of date created
public	bool if public or not

#### occasion

occasion_id	serial given to each occasion
name	name of occasion

#### user\_saved

user_saved_id	serial given to user_saved
user_id	id of user
recipe_id	id of recipe

#### user\_recipe

user_recipe_id	serial given to user_recipe
user_id	id of user
recipe_id	id of recipe

#### user\_list

user_list_id	serial given to user_list
user_id	id of user
list_id	id of list

#### recipe\_ingredient

recipe_ingredient_id	serial given to recipe_ingredient
recipe_id	id of recipe
ingredient_id	id of ingredient



#### recipe\_occasion

recipe\_occasion\_id serial given to recipe\_occasion

recipe\_id id of recipe

occasion\_id id of occasions

#### list\_ingredient

list\_ingredient\_id serial given to list\_ingredient\_id

list\_id id of list

ingredient\_id id of ingredient

#### substitutions

substitutions\_id serial given to substitutions

ingredient\_id id of ingredient

substitution\_id id of substitution