Brainstorming

fk = foreign key

Actual User

- Id
- Email
- Password
- Recipes
    - Shared/private
- Grocery List
- Saved recipes
- Follow other users
- Occasions

Public Recipes Page

- Recipes
    - Ingredients
    - User who created recipe
    - Way to favorite/save recipe
    - Add ingredients from recipe to grocery list

Table Ideas

Users – table for each user of app

- id
- name
- email address
- password
- grocery list (fk to grocery_list)

Recipes – table for all recipes in app

- id
- name
- instructions
- grocery_list_id (fk grocery_list)

Ingredients – table that holds all possible ingredients

- id
- name

- description

Grocery_List – table that holds ingredients that you saved from recipes
- id
- users_id (fk)

Occasions – table to holds names, dates and recipes for occasions
- id
- name
- recipes_id (fk recipes table)
- users_id (fk)

UsersRecipes – association table
- id
- user_id (fk to users table)
- recipes_id (fk to recipes table)

RecipesIngredients – association table
- id
- recipes_id (fk to recipes)
- ingredients_id (fk to ingredients)

RecipesGrocerylist– association table
- id
- recipes_id (fk to recipes)
- grocery_list (fk to grocery_list)

Relationships

One-to-Many
- User to Occasions – one user can be associated with many occasions

Many-to-Many
- Recipes to Ingredients – many recipes can be associated with many ingredients
- Users to Recipes – many users can be associated with many recipes
- Recipes to Grocery_List – many recipes can be associated with many grocery lists

One-to-One
- Users to Grocery_List – only one user can associate with one grocery list

Columns

Users

- Id
- Name
- Email_address
- Password

Recipes

- Id
- Name
- Instructions
- Visibility

Ingredients

- Id
- Name
- Description

Grocery_list

- Id
- Users-id

Occasions

- Id
- Name
- Recipes_id
- Users_id

UsersRecipes

- Id
- Users_id
- Recipes_id

RecipesIngredients

- Id
- Recipes_id

RecipesGrocerylist

- Id
- Recipes_id
- Grocery_list_id

POSTGRESQL

```
CREATE TABLE ingredients (
  id SERIAL PRIMARY KEY,
  name VARCHAR(255) NOT NULL,
  description VARCHAR(255) NOT NULL
 );

 CREATE TABLE grocery_list (
  id SERIAL PRIMARY KEY
 );

 CREATE TABLE recipes (
  id SERIAL PRIMARY KEY,
  name VARCHAR(255) NOT NULL,
  instructions VARCHAR(1000) NOT NULL,
  visibility BOOLEAN
 );

CREATE TABLE occasions (
  id SERIAL PRIMARY KEY,
  name VARCHAR(255) NOT NULL,
  recipes_id INT NOT NULL REFERENCES recipes(id)
);

CREATE TABLE users (
  id SERIAL PRIMARY KEY,
  name VARCHAR(32) NOT NULL,
  email_address VARCHAR(255) NOT NULL UNIQUE,
  password VARCHAR(255) NOT NULL UNIQUE,
  grocery_list_id INT NOT NULL REFERENCES grocery_list(id)
 );

CREATE TABLE UserRecipes (
  id SERIAL PRIMARY KEY,
  users_id INT NOT NULL REFERENCES users(id),
  recipes_id INT NOT NULL REFERENCES recipes(id)
);

CREATE TABLE RecipesGrocerylist (
```

```
  id SERIAL PRIMARY KEY,
  recipes_id INT NOT NULL REFERENCES recipes(id),
  grocery_list_id INT NOT NULL REFERENCES grocery_list(id)
);

CREATE TABLE RecipesIngredients (
  id SERIAL PRIMARY KEY,
  recipes_id INT NOT NULL REFERENCES recipes(id),
  ingredients_id INT NOT NULL REFERENCES ingredients(id)
);
```