## Recipe/Grocery List App

### **Functions**

- Create recipes and grocery lists
- Post, comment, like, share
- Follow chefs
- Create events

#### Users

- User login
  - o Username
  - Password
  - Email
- Can create recipes and grocery lists
- Can share recipes
- Can comment on other recipes
- Can communicate with other users

### Recipes

- Have instructions
- Have ingredients
- Needed equipment and directions
- Can take images
- Take comments
- Can send ingredients to grocery list
- Can be marked public or private
- Can be added to specific occasions/dates

# **Grocery Lists**

- Have ingredients/products to get
  - Price and amount
- Locations for stores

## **Tables**

#### Users

- Username
- Email
- Password
- Bio
- User id

#### Authentication

- Username
- Email
- Password

#### Recipes

Pictures

- Description
- Ingredients/equipment
- Instructions
- Recipe Id
- User id
- Tags and comments
- Public/Private

### Comments

- Recipe id
- Content
- User id
- tags/categories
- Tag id

## **Grocery cart**

- User id
- Ingredients
- equipment

## Tags

- Tag id
- name

# Ingredients

- Brand
- Name
- Price
- Ingredient id

### **Event**

- Occasion id
- Name
- Recipes
- Description
- Time
- Date and season
- Tags

## **Relationships**

### One to one

- User to authentication
- Grocery cart to user

## One to many

- Grocery cart to recipes/ingredients
- User followers
- Occasions to recipes
- Comments to recipe
- Ingredients to recipe

### Many to many

Tags to recipes

#### Columns

#### Users

- User\_id
  - o to keep count of the users on the platform and track relevant things on the app
  - o Int serial primary key because it is unique to the user
- Email
  - To contact the user
  - Varchar because it would be a short string
- Password
  - Users password to login to the app
  - o Varchar because it is a string of letters, numbers, symbols, etc
- Username
  - o User's name on the platform
  - Varchar
- Bio
  - Any info the user may share with others if they want
  - Text so that it isn't limited by character count

#### **Authentication**

- User\_id
  - Integer number representing a specific user's stored information used for login
  - Foreign key to users table
- Username
  - Stored user's username
  - Varchar to match the user's username they registered with
- Password
  - Stored user's password
  - varchar
- Email
  - Stored user's email
  - varchar

### Recipes

- Recipe\_id
  - To keep count and track of the specific recipe on the app
  - o Int-serial primary key because it is unique to each recipe
- User id
  - Foreign key from user to tell which user created the recipe
- Tag id
  - o Foreign key from tags table to tell what specific tags/categories the recipe is in
- Ingredient\_id

- Foreign key from ingredients table to tell what specific ingredients are in the recipe
- public/private
  - Boolean true or false to set the recipe to public or private views
- Description
  - Description of the recipe
  - Text so it is not limited by character count
- Instructions
  - Instructions to make the recipe
  - Text so it is not limited by character count
- Comment\_id
  - Foreign key linking a specific comment to the recipe

#### Comments

- Comment id
  - Int-serial primary key to keep track of specific comments
- User id
  - Foreign key from users table to tell which user made the comment
- Recipe id
  - o Foreign key from recipe table to tell which recipe the comment was made to
- Comment content
  - Actual content of the comment
  - Text

### **Grocery cart**

- Cart id
  - Int-serial primary key to keep track of individual grocery lists
- User id
  - Foreign key from users because it is a specific user's grocery list
- Ingredient id
  - Foreign key form ingredients because they are specific ingredients

## Ingredients

- Ingredient\_id
  - Int-serial primary key to keep track of individual ingredients
- Name
  - Name of ingredient
  - varchar
- Price
  - Price of ingredient
  - float

#### Occasions

- Occasion\_id
  - o Int-serial primary key to keep track of specific occasions
- Occasion\_name
  - Name of occasion
  - varchar

- Description
  - o Description of occasion
  - Text so it isn't limited by character count
- Recipe id
  - Specific recipes that will be at the occasion
- Date
  - o Date of occasion
  - Date data-type
- Tag\_id
  - Specific tags/categories the occasion may fall under

#### Tags

- Trag\_id
  - Int-serial primary key to separate specific tags
- Tag\_name
  - Name of said tag

### **SQL Code**

```
CREATE TABLE users (
  user id SERIAL PRIMARY KEY,
 email varchar(50) NOT NULL UNIQUE,
 password varchar(100) NOT NULL,
 username varchar(50) NOT NULL,
 bio TEXT
);
CREATE TABLE authentication(
  user id INTEGER NOT NULL,
 username VARCHAR(50) NOT NULL UNIQUE,
 password VARCHAR(100) NOT NULL,
email VARCHAR(50) NOT NULL
);
CREATE TABLE recipes (
  recipe SERIAL PRIMARY KEY,
 user_id INTEGER NOT NULL,
 tag_id INTEGER NOT NULL,
 ingredient id INTEGER NOT NULL,
 Public_Private BOOLEAN NOT NULL,
 Description TEXT NOT NULL,
 Instructions TEXT NOT NULL,
 comment_id INTEGER NOT NULL
);
```

```
CREATE TABLE grocery_cart (
  cart_id SERIAL PRIMARY KEY,
 user id INTEGER NOT NULL,
 ingredient_id INTEGER NOT NULL
);
CREATE TABLE tags (
  tag_id SERIAL PRIMARY KEY NOT NULL,
 tag_name VARCHAR(50) NOT NULL
);
CREATE TABLE ingredients (
       ingredient id SERIAL NOT NULL,
 name VARCHAR(50) NOT NULL,
 price FLOAT NOT NULL
);
CREATE TABLE occasion (
  occasion_id SERIAL PRIMARY KEY,
 occasion name VARCHAR(50) NOT NULL,
 recipe id INTEGER NOT NULL,
 description TEXT,
 date DATE,
 tag_id INTEGER
);
CREATE TABLE comments (
  comment id SERIAL PRIMARY KEY,
 user_id INTEGER NOT NULL,
 recipe_id INTEGER NOT NULL,
 comment_content TEXT NOT NULL
);
INSERT INTO users(password, email, bio, username)
VALUES('password123', 'abc@123.com', 'This is my bio', '789*');
INSERT INTO tags(tag_name)
VALUES('Breakfast'),
  ('Lunch'),
 ('Dinner');
```