

BRAINSTORMING

- user_id
- Username
- Email
- Password
- First_name
- Last_name
- Ingredient_id
- Ingredient_name
- Recipe_id
- Recipe_name
- Recipe_ingredients
- Recipe_instructions
- Recipe_image_url
- Recipe_rating
- Occasion
- Recipe_author
- Grocery_list_id

TABLES

User: this table will hold user's information and profile info

- user_id
- Username
- Email
- Password
- First_name
- Last_name

Ingredients: this table will hold the ingredient's name and id

- Ingredient_id
- Ingredient_name

Recipes: this table will hold recipe instruction, ingredients, ratings and identifying info

- Recipe_id
- Recipe_name
- Recipe_ingredients
- Recipe_instructions
- Recipe_image_url
- Recipe_rating
- Occasion
- Recipe_author

FORIEGN KEY FROM GROC TO REC AND GROC TO USER

Grocery List: this table will hold grocery lists comprised of ingredients

- Grocery_list_id
- Ingredient_id

User recipes:

- User_recipe_id
- User_recipe_name

Recipe ingredients:

- Ingredient_needed
- Ingredient_id

RELATIONSHIPS:

One to one

One to many

User ==> grocery lists

one user can make many grocery list

Ingredients ==> grocery lists

one ingredient can be in many grocery lists

Many to many

User ==> recipes

many users can post many recipes

Ingredients ==> recipe

many ingredients can make up many recipes

COLUMNS:

User: this table will hold user's information and profile info

- user_id
 - unique identifier for each user
 - serial primary key
- Username
 - Login username for user
 - VARCHAR with a limit of 30 characters
- Email
 - Email attached to account for verification
 - VARCHAR with a limit of 50 characters
- Password
 - Login password for user
 - VARCHAR with a limit of 30 characters
- First_name
 - User's first name
 - VARCHAR
- Last_name

- User's last name
- VARCHAR

Ingredients: this table will hold the ingredient's name and id

- Ingredient_id
 - id for each ingredient in the db, referenced by other tables like recipes and groceries
 - SERIAL PRIMARY KEY
- Ingredient_name
 - Name of ingredient mostly for humans to know what the item is
 - VARCHAR

Recipes: this table will hold recipe instruction, ingredients, ratings and identifying info

- Recipe_id
 - The recipe's unique identifying number
 - SERIAL PRIMARY KEY
- Recipe_name
 - Name of Recipe, mostly used for humans
 - VARCHAR
- Recipe_ingredients
 - Column that references ingredient_id
 - INT REFERENCES
- Recipe_instructions
 - Text instructions to be displayed
 - VARCHAR
- Recipe_image_url
 - URL for image to be displayed
 - VARCHAR
- Recipe_rating
 - Rating to be displayed for each recipe
 - INT value between 0 and 5
- Occasion
 - Custom field a user can list what occasion this recipe would be for
 - VARCHAR
- Recipe_author
 - Who posted the recipe
 - VARCHAR references user_id

Grocery List: this table will hold grocery lists comprised of ingredients

- Grocery_list_id
 - Identifier for the grocery list
 - SERIAL PRIMARY KEY
- Ingredient_id
 - References ingredient_id in ingredients table
 - INT

User recipes:

- User_groceries_id
 - SERIAL PRIMARY KEY
 - INT, references user_id
- User_recipe_name
 - Name of user recipe
 - VARCHAR

Recipe ingredients:

- Recipe_Ingredient_id
 - Unique identifier for recipe ingredient
 - SERIAL PRIMARY KEY
- Ingredient_id
 - References original ingredient_id
 - INT

```
CREATE TABLE users(  
  user_id SERIAL PRIMARY KEY,  
  username VARCHAR(30),  
  user_password VARCHAR(30),  
  email VARCHAR(50),  
  first_name VARCHAR(30),  
  last_name VARCHAR(30)  
);
```

```
CREATE TABLE ingredients(  
  ingredient_id SERIAL PRIMARY KEY,  
  ingredient_name VARCHAR(50)  
);
```

```
CREATE TABLE recipes(  
  recipe_id SERIAL PRIMARY KEY,  
  recipe_name VARCHAR (100),  
  recipe_ingredients INT NOT NULL REFERENCES ingredients(ingredient_id),  
  recipe_instructions VARCHAR(1000),  
  recipe_image_url VARCHAR(2000),  
  recipe_rating INT NOT NULL CHECK (recipe_rating BETWEEN 0 AND 5),  
  recipe_occasion VARCHAR(100),  
  recipe_author INT NOT NULL REFERENCES users(user_id)  
);
```

```
CREATE TABLE groceries(  
  grocery_list_id SERIAL PRIMARY KEY,  
  ingredient_id INT NOT NULL REFERENCES ingredients(ingredient_id)  
);
```

```
CREATE TABLE user_groceries(  
  user_grocery_id SERIAL PRIMARY KEY,  
  grocery_list_owner INT NOT NULL REFERENCES users(user_id)  
);
```

```
CREATE TABLE recipe_ingredients(  
  recipe_ingredient_id SERIAL PRIMARY KEY,  
  ingredient_id INT NOT NULL REFERENCES ingredients(ingredient_id)  
);
```