

Data Modeling Exercise

Summary

We want to create a recipe creating/sharing and grocery list app. You'll be planning out what tables we'll need, what information they'll store, and how the data will relate to each other.

Features

- users can sign into the app with their email and password
- users can create recipes with ingredients and instructions
- recipes can be marked as public or private
- users can view other people's recipes
- ingredients from recipes can be added to user's grocery lists
- users can create their own occasions and assign recipes to occasions

BRAINSTORMING LIST

- User information
 - User name
 - Password
 - User id
 - Favorited recipes
- Recipe information
 - Organize by culture
 - Genre of Food
 - Allergy information
 - Boolean is allergy know
 - Ingredients
 - Instructions
 - User Rating
 - Public or private recipe

TABLES

- User table
- Recipe table
- Review/ratings table
- Auth table

Step 3

What relationships should exist among the data ?

- One to Many
 - User favorite recipes
 - Ratings given
- One to One
 - Public or private recipe <-> user information
 - Publisher or reader?
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- Many to many
 - Occasions? //NOTE: what does this mean?

STEP 4

Columns

- Auth
 - User_id
 - Type: integer -> to allow scaling within the user base. To make user activity reference quick and readable
 - Password
 - To log in to the user's account
 - Type: Text -> allow for a mix of numbers, letters ,symbols.
 - Email
 - User email to authenticate the users credibility
 - Type: Varchar -> add readability to the email, while limiting input.
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- User
 - User_id:
 - Type: integer -> *see auth/user_id
 - First_name:
 - Type: varchar -> can input any name, no character restrictions.
 - Last_name:
 - *Same as first_name*
 - Favorite_recipes
 - Type: varchar -> storing a bunch of recipe_ids in one. (optional: store as json?)
- Recipes
 - Recipe_id:
 - Type: Integer -> easy to store and reference a string of numbers.
 - User_rating:
 - Type: Integer -> allow frontend to determine the universal range of rating / OR: use PostgreSQL int4range type to specify a certain range that can be input for more type safety (Brendan P is a big fan of type safety).
 - Genre:
 - Type: Varchar -> balance between grouping and individuality.
 - Ingredients:

- Type: Varchar -> split into a list later (front end).
 - Name:
 - Type: Varchar -> allow for any spelling.
 - public/private:
 - Type: Boolean -> it's either or.
- Reviews/ratings
 - Rating_id:
 - Type: integer -> so we can see how many reviews we're getting on each recipe.
 - User_review:
 - Type: varchar -> allow the user to type in freely without character/symbol restrictions.
 - Rating:
 - Type: integer -> (out of 5 stars) number ratings are efficient to work with.
 - User_id:
 - Type: varchar -> displays the user's name that left the review and rating
 - Recipe_id:
 - Type: integer -> allows us to see how many recipes a user has.