

Project: Bakery Blog and Order Website

My project will model a bakery website that combines a blog for sharing recipes and pictures with an e-commerce platform to order bakery items. Users can browse recipes, search for them by ingredients, difficulty level or name, and place orders for baked goods from a menu. I will provide a way for users to create a new account. I will assume that the baked goods menu is already in the application, users need an account to publish recipes/order, and that the payment is handled externally.

The required data models for this application are:

- User
 - Last name (text)
 - First name (text)
 - Address (text)
 - Email (text)
- Recipe
 - Name (text)
 - Instructions (text)
 - Difficulty level (number)
 - Image (image file)
 - Ingredients (Many-to-Many relationship)
- Ingredients
 - Name (text)
 - Quantity (number)
- BakeryGood
 - Name (text)
 - Description (text)
 - Price (number)
 - Image (image file)
- Order
 - Order date (date)
 - User (Foreign Key to User)
 - Total price (number calculated based on OrderItems)
 - Status (choice of: "cart", "processing" or "complete")
- OrderItem
 - Order (Foreign Key to Order)
 - BakeryGood (Foreign Key to BakeryGood)
 - Quantity (number)
 - Price (number)

The User model stands alone.

An Order is a specific transaction for one User, but it can contain multiple BakeryGoods or multiple quantities of one BakeryGood. Each BakeryGood is an OrderItem within an Order. Also Recipes have a many-to-many relationship with Ingredient to allow for search by ingredient across multiple recipes