



FRIDGE INVENTORY MANAGEMENT SYSTEM

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OVERVIEW



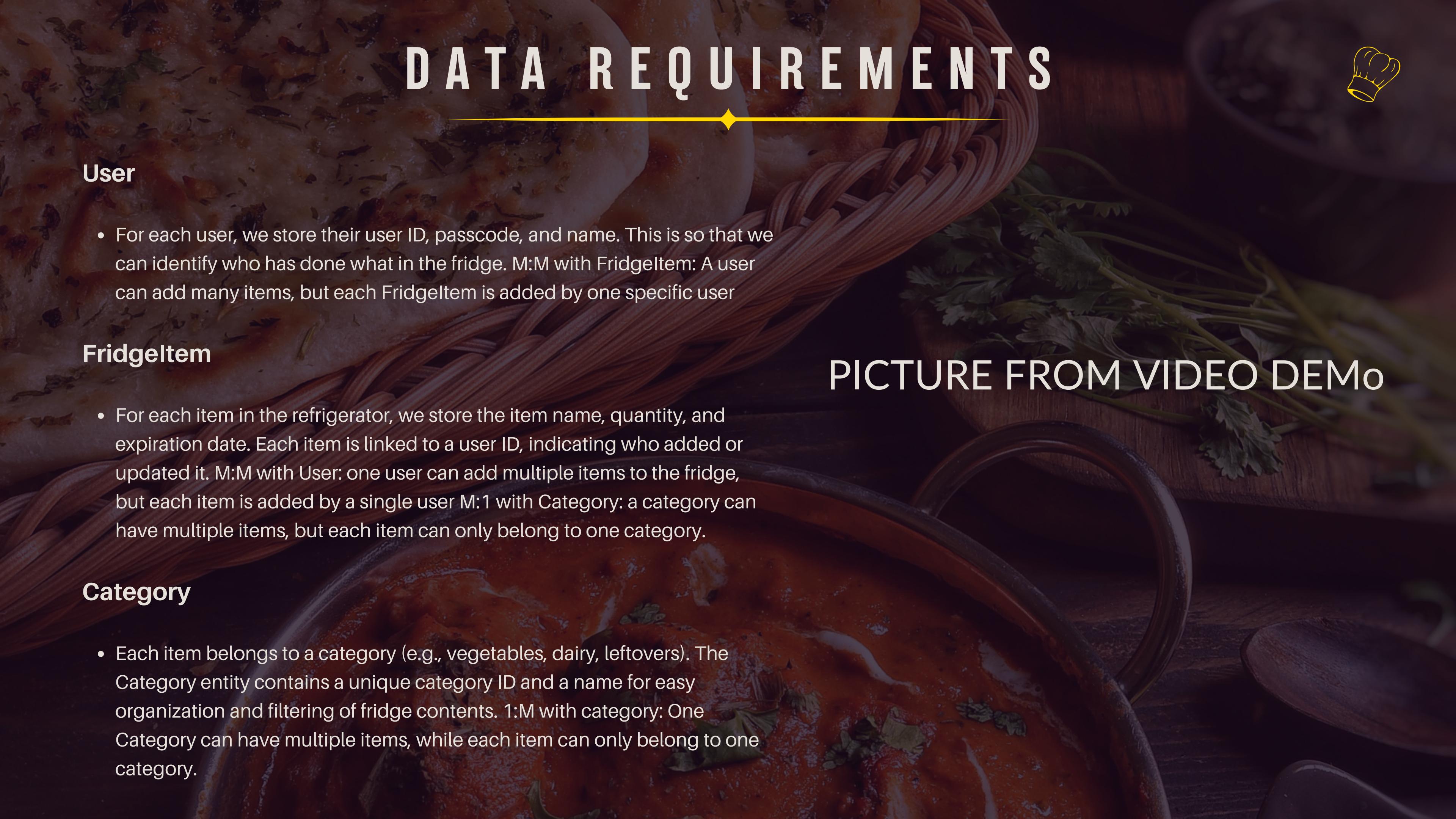
Our project aims to develop a comprehensive refrigerator inventory management application tailored for shared environments, such as restaurant kitchens. This digital solution enables users to efficiently monitor and manage fridge contents, which leads to reduced waste and better inventory management.

Key Features:

- User Activity Logging: Each user can record items they add or remove, providing a clear audit trail of fridge interactions.
- Categorized Storage: Items are organized into categories (e.g., fruits, dairy, vegetables) for easy navigation and management.
- Contributor Identification: The system tracks which user added each item, making it clear and accountable.

By implementing this application, store managers gain real-time insights into stock levels, facilitating timely reordering and efficient preparation.

DATA REQUIREMENTS



User

- For each user, we store their user ID, passcode, and name. This is so that we can identify who has done what in the fridge. M:M with Fridgelitem: A user can add many items, but each Fridgelitem is added by one specific user

Fridgelitem

- For each item in the refrigerator, we store the item name, quantity, and expiration date. Each item is linked to a user ID, indicating who added or updated it. M:M with User: one user can add multiple items to the fridge, but each item is added by a single user M:1 with Category: a category can have multiple items, but each item can only belong to one category.

Category

- Each item belongs to a category (e.g., vegetables, dairy, leftovers). The Category entity contains a unique category ID and a name for easy organization and filtering of fridge contents. 1:M with category: One Category can have multiple items, while each item can only belong to one category.

PICTURE FROM VIDEO DEMO

APPLICATION REQUIREMENTS



Login

- Users should be able to login to the application with their passcode so that their actions can be tracked

Managing Fridge Contents

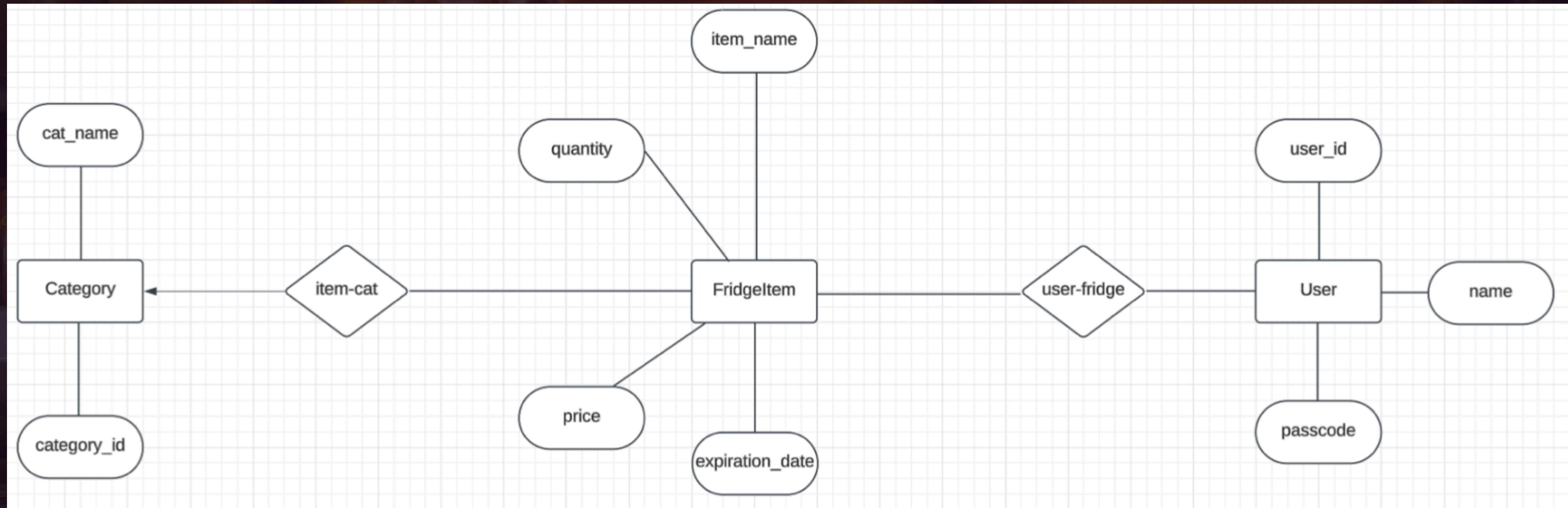
- Users can add items, specify quantities, and set expiration dates.
- Users can delete items once they are consumed or removed.

Viewing and Organizing

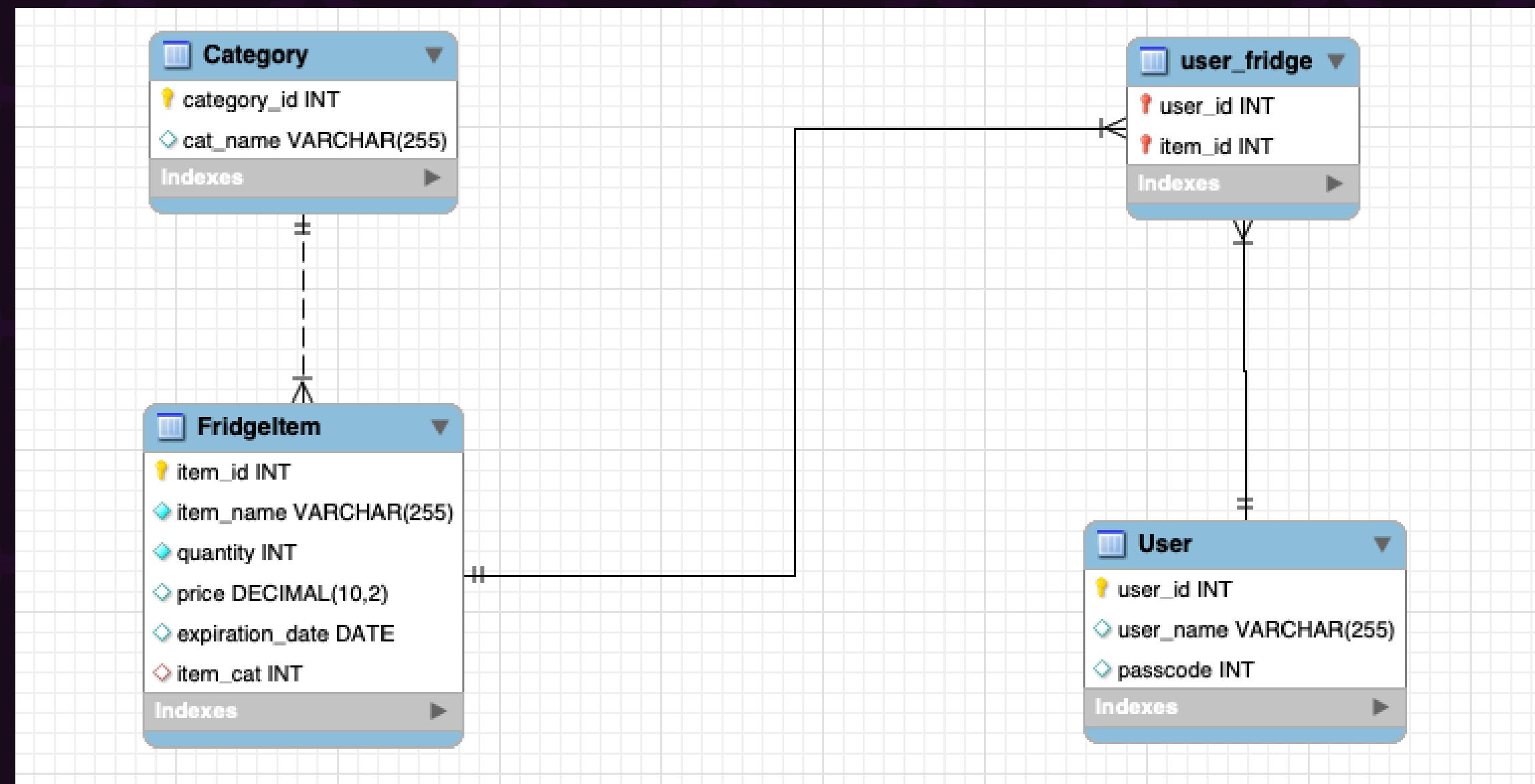
- Items are displayed in a categorized view to improve discoverability. Categories such as Dairy, Meat, Vegetable, Fruits.
- Users can sort items by different criteria, such as expiration date, quantity and the user who added the item.
- Search should allow for combining multiple conditions with "OR" and "AND" to search for an item and the user who added it.

PICTURE FROM VIDEO DEMO

ER DIAGRAM



RELATIONAL SCHEMA



FRONTEND OVERVIEW



BACKEND OVERVIEW



MAIN QUERIES USED



PICTURE