DATABASE MANAGEMENT SYSTEM

(UE21CS351A)

PROJECT :ELECTRONIC STORE DATABASE MANAGEMENT SYSTEM

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USER REQUIREMENT SPECIFICATION

Introduction

This document describes the user requirements for the online electronic store database. The database will be used to store all of the data necessary for the online electronic store to function, including product information, customer information, order information, payment information, and shipping information.

Scope

The online electronic store database must be able to support the following features:

- **Product management**: The database must be able to store and manage all of the product information for the online electronic store, including product name, description, price, inventory level and specifications.
- **Customer management**: The database must be able to store and manage all of the customer information for the online electronic store, including customer name, email address, shipping address, purchase history, and preferences.
- **Order management**: The database must be able to store and manage all of the order information for the online electronic store, including order number, customer information, product information, shipping information, payment information, and order status.
- **Review management**: The database must store the rating and comments given by users for the purchases they make.
- **Shipping management**: The database must be able to store and manage all of the shipping information for the online electronic store, including shipping address, shipping method, and shipping status.

Data Requirements

The online electronic store database must store the following types of data:

- **Product information**: product name, description, price, inventory level, images, specifications, etc.
- **Customer information**: customer name, email address, shipping address, billing address, purchase history, preferences, etc.
- **Order information**: order number, customer information, product information, shipping information, payment information, order status, etc.
- **Review information**: customer comments, rating,etc.

Non-Functional Requirements

The online electronic store database must meet the following non-functional requirements:

- **Security**: The database must be secure and protect all of the data stored within it from unauthorized access, modification, or destruction.
- **Performance**: The database must be able to handle a high volume of traffic and transactions without experiencing any performance degradation.
- **Scalability**: The database must be scalable to support future growth of the online electronic store.
- **Availability**: The database must be highly available and accessible to users 24/7.

Use Cases

The following are some examples of use cases that the online electronic store database must support:

- A customer browses the online electronic store website and adds a product to their cart.
- A customer proceeds to checkout and enters their shipping and billing information.
- A customer places an order and pays for it using their credit card.
- The online electronic store administrator adds a new product to the website.
- The online electronic store administrator processes an order and ships it to the customer.
- A customer views their purchase history and order status.
- A customer writes a review for a product purchased by them.

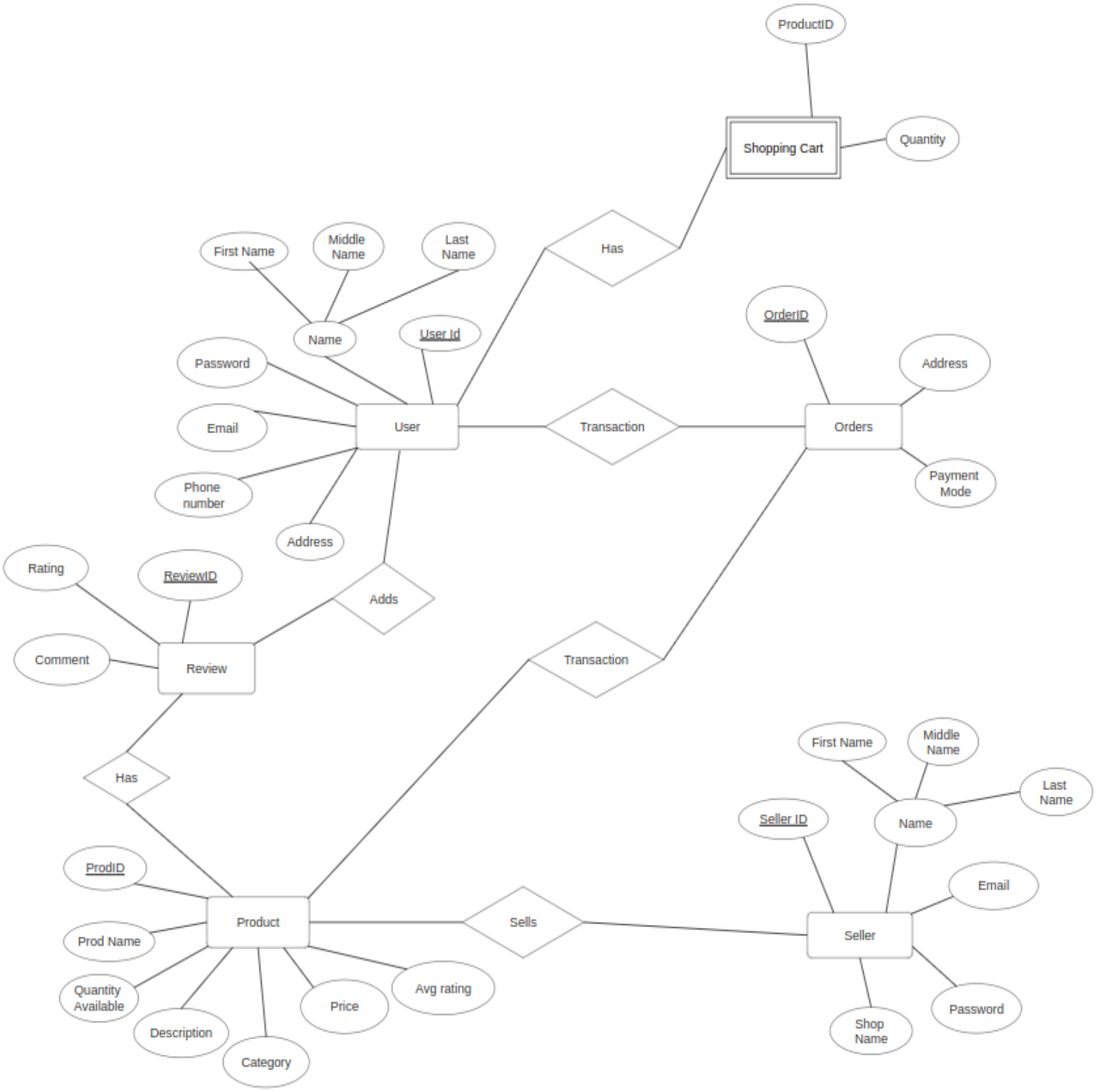
Conclusion

This document has described the user requirements for the online electronic store database. The database must be able to support the features listed above and meet the non-functional requirements of security, performance, scalability, and availability.

In addition to the above, the online electronic store database may also need to support the following features:

- **Product reviews**: The database must be able to store and manage product reviews, including the reviewer's name, rating, and review text..
- **Order tracking**: The database must allow customers to track the status of their orders.

E-R DIAGRAM: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RELATIONAL SCHEMA: