
Software design

Clothes store system

Version 2.0

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Revision history

Date	Authors	Modifications	Version
23/06	All members	Select documents, templates and build a database for the system	1.0

29/06	Le Minh Thang	View list product,search product by category, product name Customer add order, checkout	1.1
30/06	Le Minh Thang + Phan Viet Anh	Update profile + register	1.2
30/06	Phan Viet Anh	Verify register, forgot password	1.3
03/07	Dao Xuan Phuong	Manages product crud product	1.3
06/07	Ha Dang Thanh	Manage order crud order + Admin Dashboard	1.4
10/07	Nguyen The Trung	Manage order history	1.5
15/07	All members	Combine members' code together to produce the final product	Final version

1. Document description

This document describes the first version 1.0 for the Online Clothing Store system. It is divided into the following sections:

1. In section 2, an overview of the Online Clothing Store system's requirements will be provided, including a list of system users, use cases, use case diagrams, and activity diagrams that describe the most important use case scenarios.
2. In section 3, an E-R-D diagram and all tables of the Online Clothing Store system will be presented in detail.
3. In section 4, all classes organised in layers and their behaviours (sequence diagrams) for the most important use cases will be presented.
4. In section 5, the main screen prototypes will be presented.

2. SRS overview

2.1. List of system users

Roles:

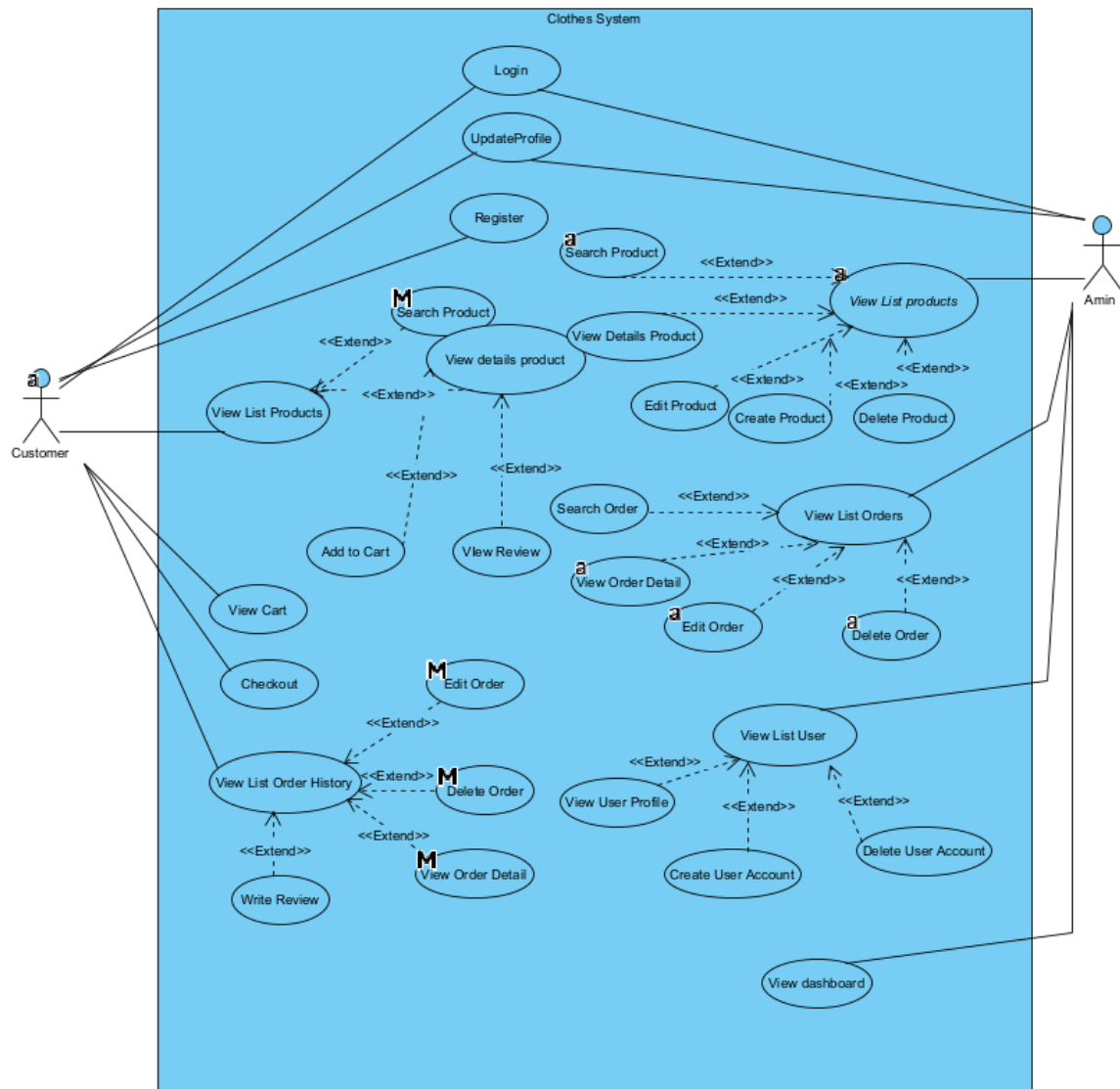
- **Admin:** The person responsible for managing the Online Clothing Store System, including adding new products, updating product information, and managing orders.
- **Customer:** The person who uses the Online Clothing Store to browse products, place orders, and manage their account.

2.2. List of use cases

1. Order processing
2. Checkout order
3. Manage Order
4. Manage Product
5. Manage User

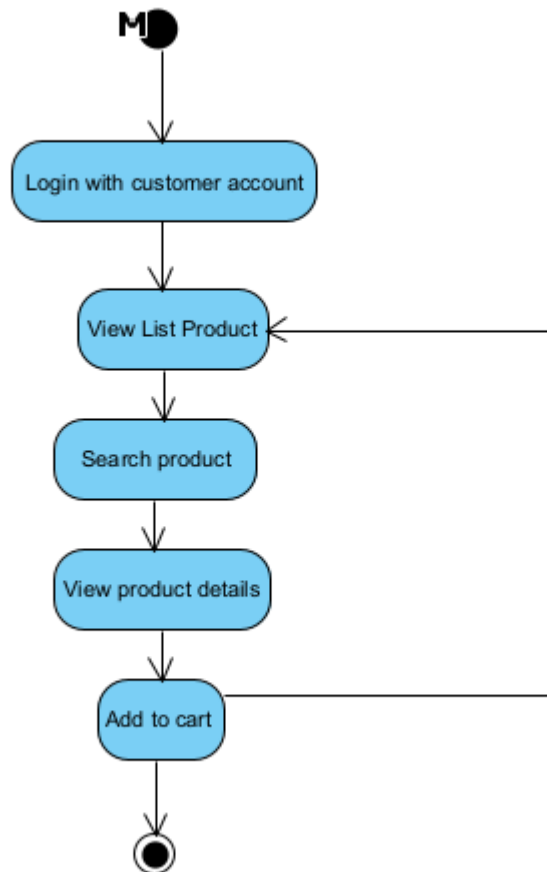
2.3. Use case diagram

2.3.1. Preliminary use case diagram

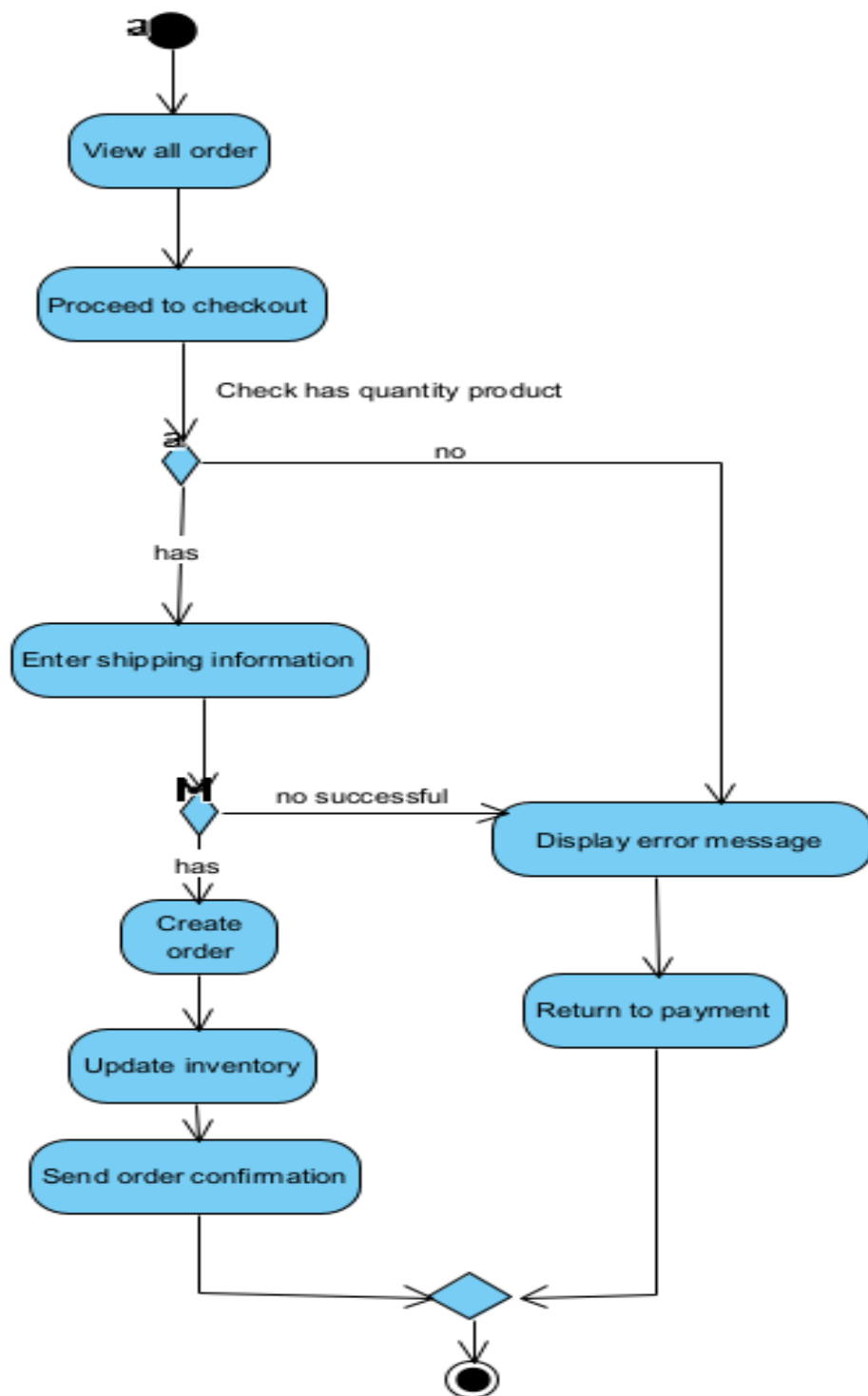


2.4. Activity diagrams of use case scenarios

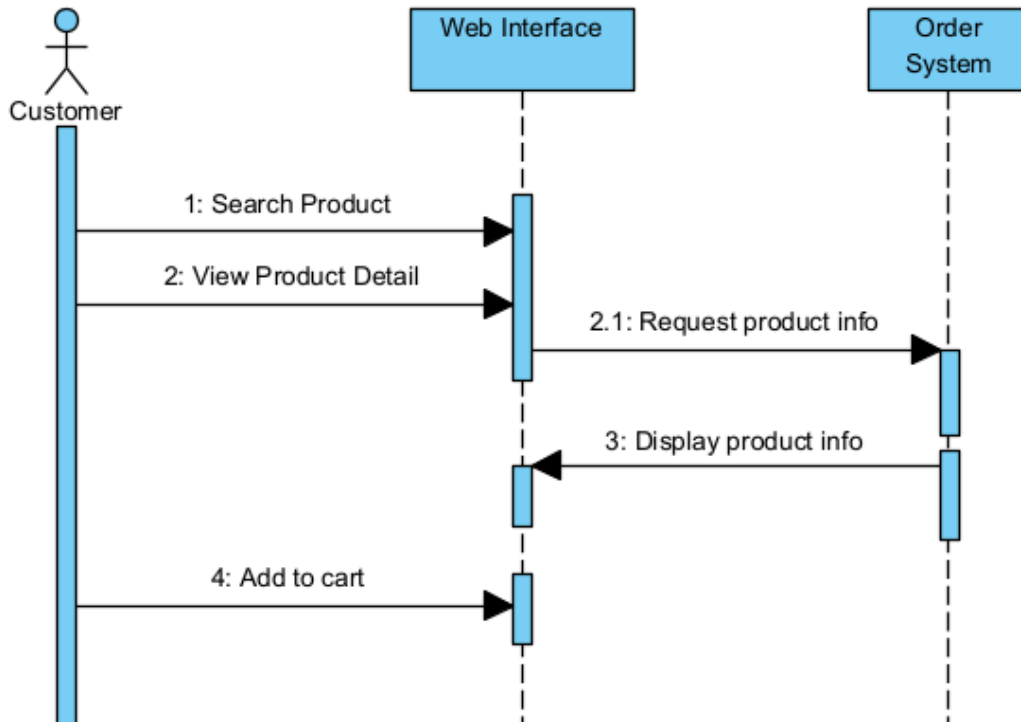
2.4.1. Activity diagram for use case “Order Product”



2.4.1. Activity diagram for use case “Checkout Order”

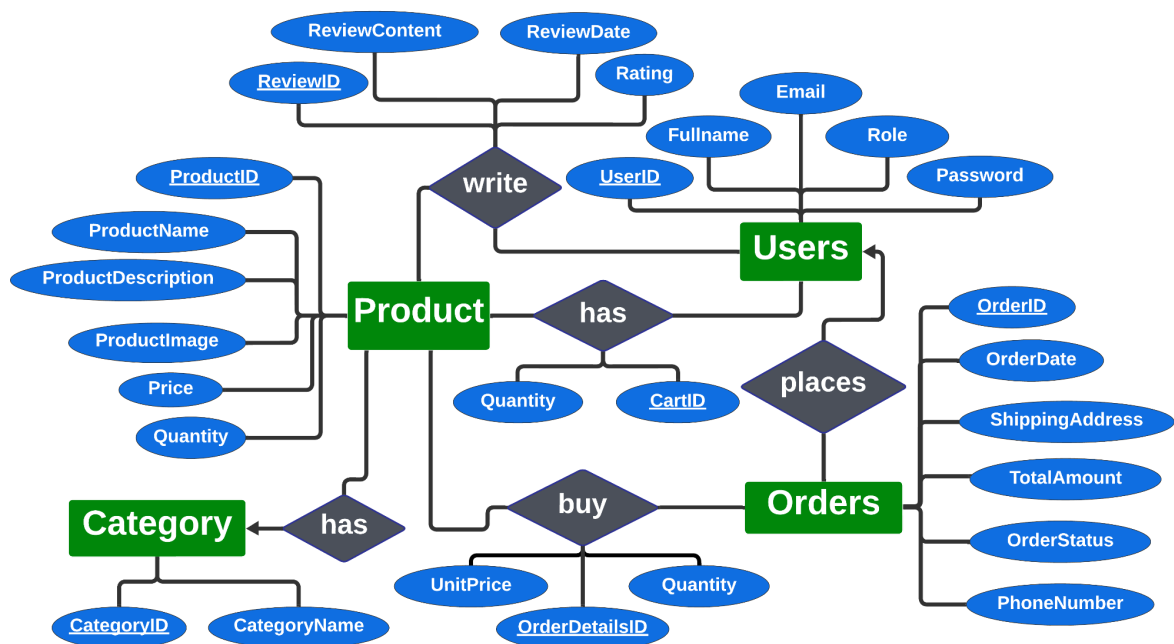


2.5.1. Sequence diagram for use case "Add to cart"



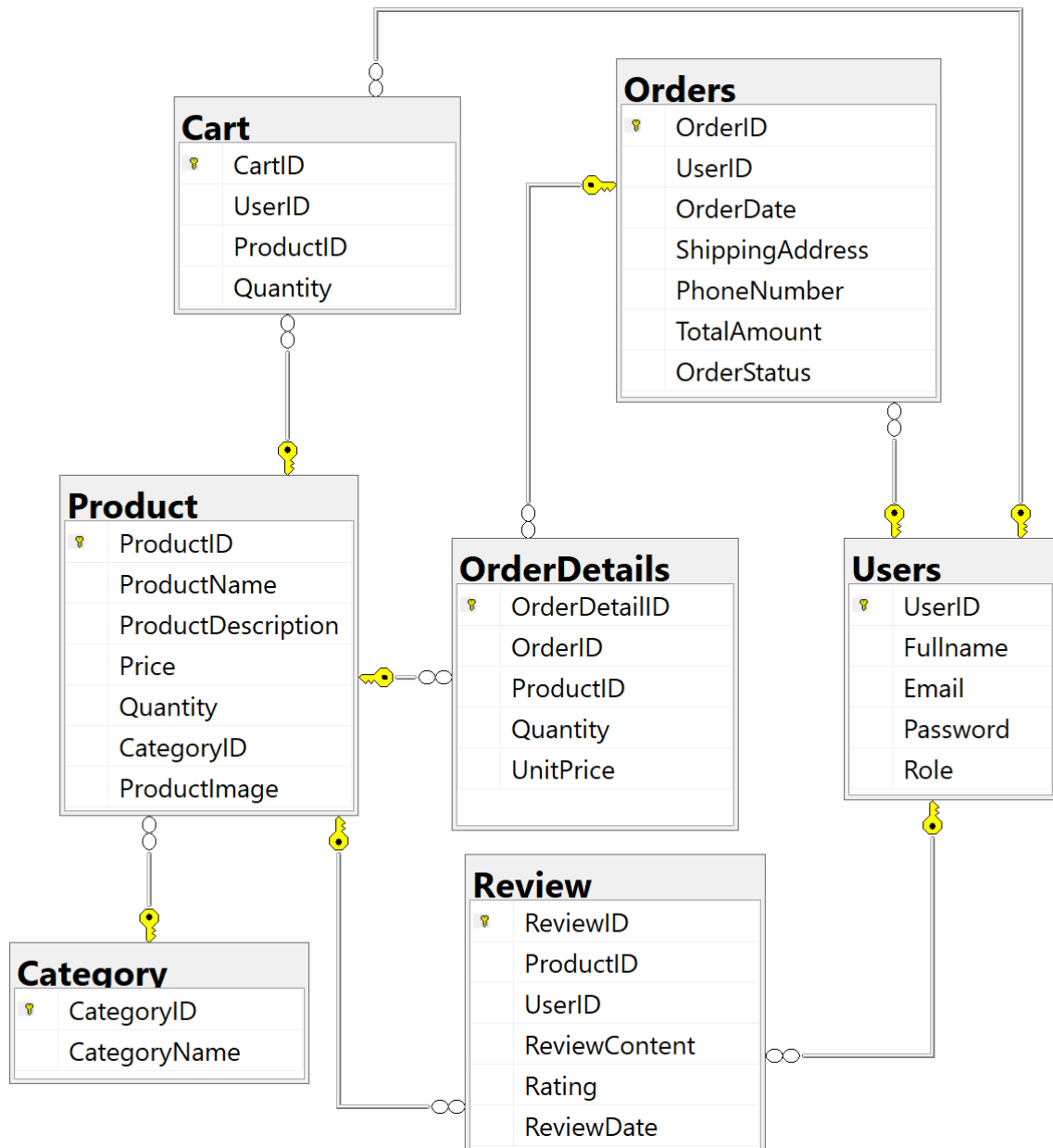
3. Data model

3.1. Entity Relationship Diagram



3.2. Table details

Database diagram



Note: Attribute with underline is Primary key

3.2.1. Table name: Cart

Field Name	Type	Length	Note
<u>CartID</u>	Integer	10	Primary key

UserID	Integer	10	Foreign key, refers to Users table
ProductID	Integer	10	Foreign key, refers to Product table
Quantity	Integer	10	Not null

3.2.2. Table name: Category

Field Name	Type	Length	Note
<u>CategoryID</u>	Integer	10	Primary key
CategoryName	Nvarchar	50	Not null

3.2.3. Table name: Product

Field Name	Type	Length	Note
<u>ProductID</u>	Integer	10	Primary key
ProductName	Nvarchar	100	Not null
ProductDescription	Nvarchar	500	Allows Null
Price	Double	10	Not null
Quantity	Integer	10	Not null
CategoryID	Integer	10	Foreign key, refers to Category table
ProductImage	String	500	Allows Null

3.2.4. Table name: Orders

Field Name	Type	Length	Note
<u>OrderID</u>	Integer	10	Primary key
UserID	Integer	10	Foreign key, refers to Users table

OrderDate	Datetime	10	Not null
ShippingAddress	Nvarchar	200	Not null
PhoneNumber	Varchar	20	Not null
TotalAmount	Double	10	8 digits to the left and 2 digits to the right of the decimal point.
OrderStatus	String	20	Not null

3.2.5. Table name: OrderDetails

Field Name	Type	Length	Note
<u>OrderDetailID</u>	Integer	10	Primary key
OrderID	Integer	10	Foreign key, refers to Orders table
ProductID	Integer	10	Foreign key, refers to Product table
Quantity	Integer	10	Not null
UnitPrice	Double	10	8 digits to the left and 2 digits to the right of the decimal point.

3.2.6. Table name: Users

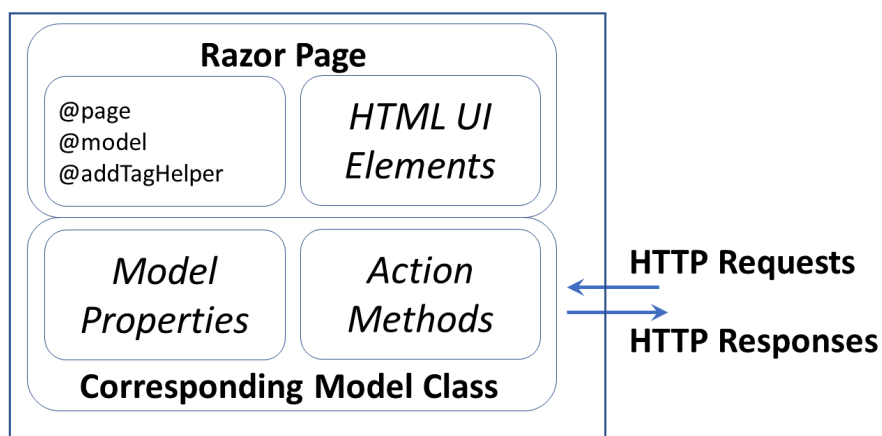
Field Name	Type	Length	Note
<u>UserID</u>	Integer	10	Primary key
Fullname	Nvarchar	50	Not null
Email	Varchar	100	Not null

Password	Varchar	100	Not null
Role	Nvarchar	10	Not null

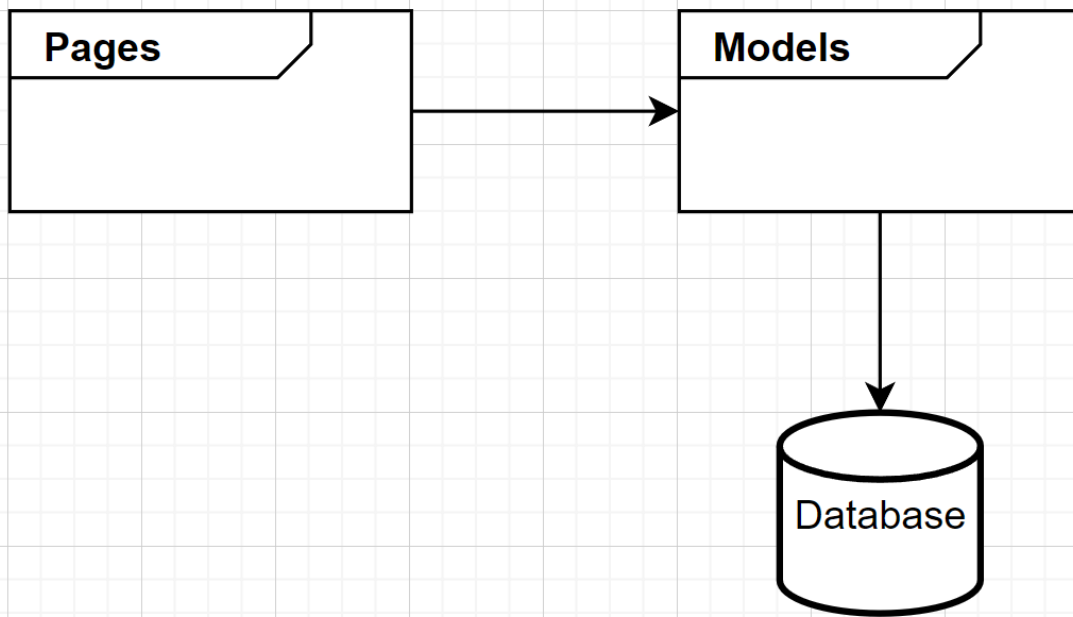
3.2.5. Table name: Review

Field Name	Type	Length	Note
<u>ReviewID</u>	Integer	10	Primary key
ProductID	Integer	10	Foreign key, refers to Product table
UserID	Integer	10	Foreign key, refers to Users table
ReviewText	Nvarchar	1000	Not null
Rating	Integer	1	Value from 1 - 5
ReviewDate	Datetime	10	Not null

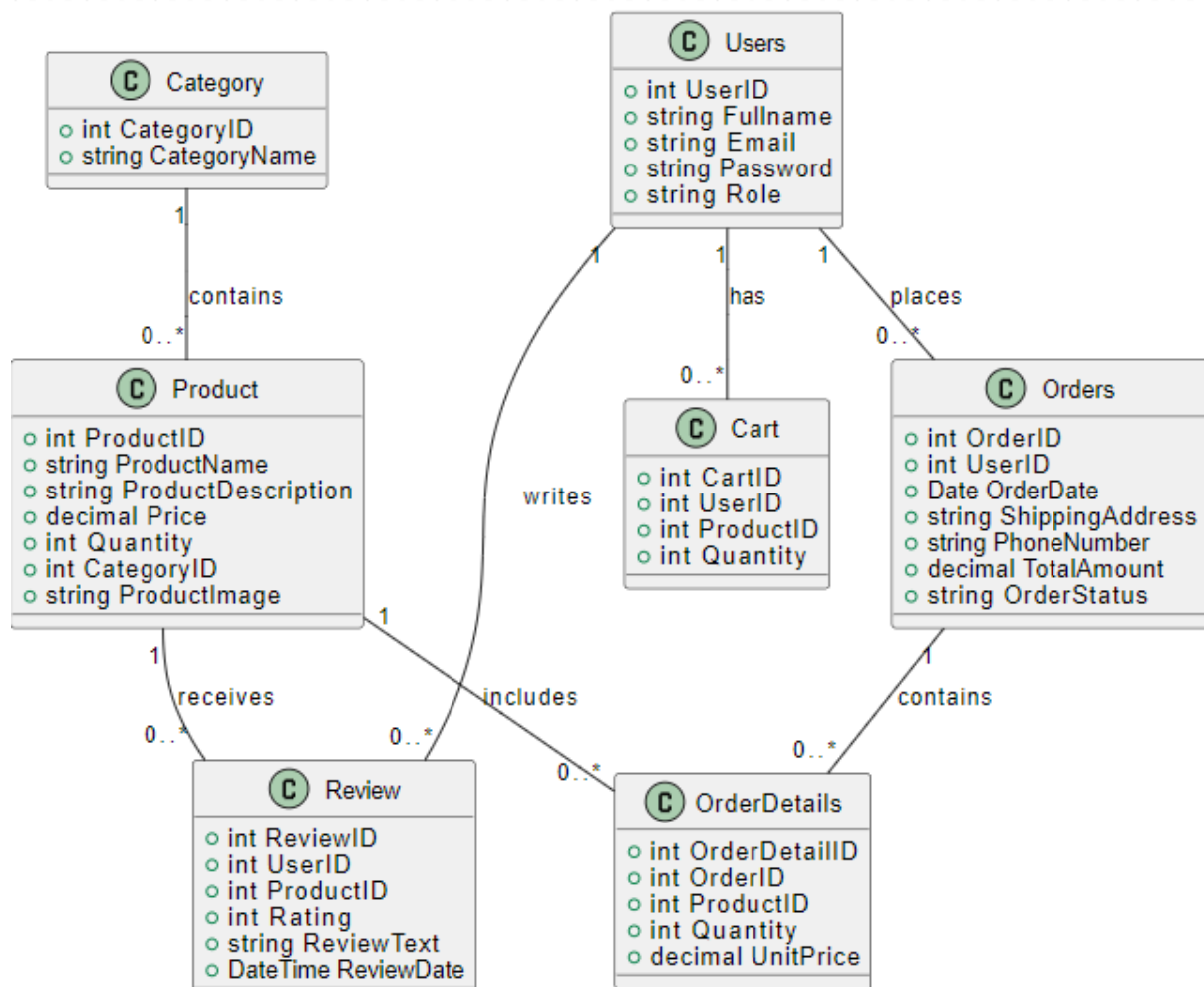
4. Class diagram



4.1. List of classes in the Layers



4.2. Model classes







5. User Interface Model Design

5.1. User interface model design

5.1.1. Screen “ Manage Product”

List of Product

Search here...

 Savannah Nguyen



Create New

Product Name:

Min Unit Price:

Max Unit Price:

Search

ProductId	ProductName	Price	Quantity	Category	ProductImage	
7	tamken	123.00	12	Máy tính		<div><div>Edit</div><div>Details</div><div>Delete</div></div>
6	Máy giặt Electrolux	6999000.00	10	Thiết bị gia dụng		<div><div>Edit</div><div>Details</div><div>Delete</div></div>

5.1.2. Screen “Manage Order”

Order List

19/07/2024

Search by date

All Statuses

New Order

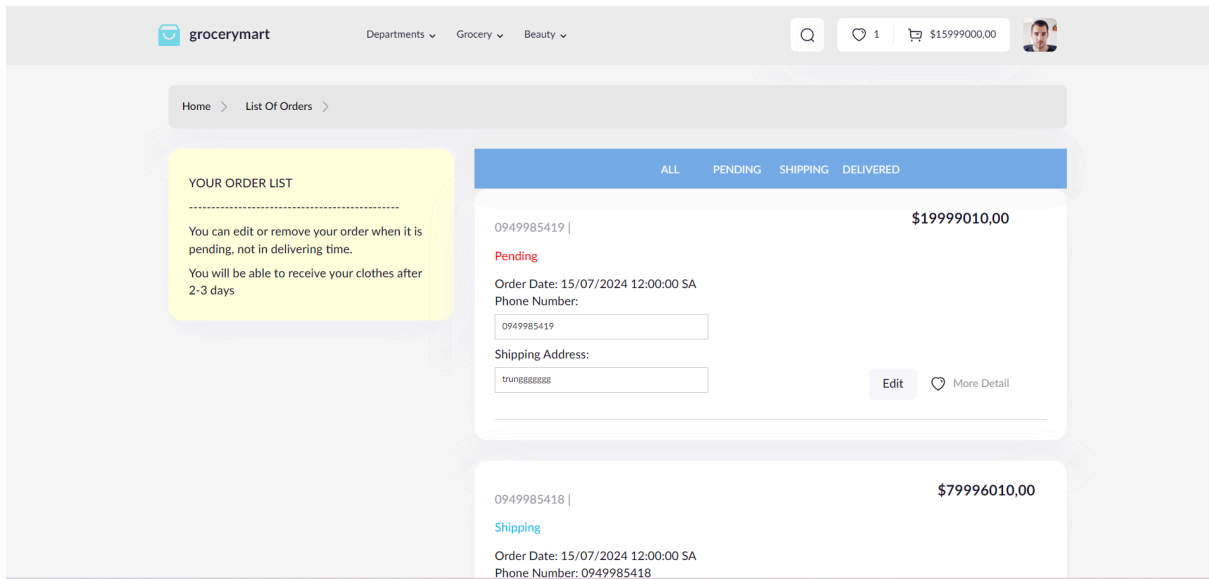
Order ID	Customer	Order Date	Total Amount	Order Status	Action
3	Thang - 555-9012	01/07/2024 00:00:00	15999000.00	Pending	<div><div>Detail</div><div>Delete</div></div>
2	John Doe - 555-5678	15/06/2024 00:00:00	34999000.00	Shipped	<div><div>Detail</div><div>Delete</div></div>
1	Thang - 555-1234	01/06/2024 00:00:00	99995000.00	Cancel	<div><div>Detail</div><div>Delete</div></div>

Previous

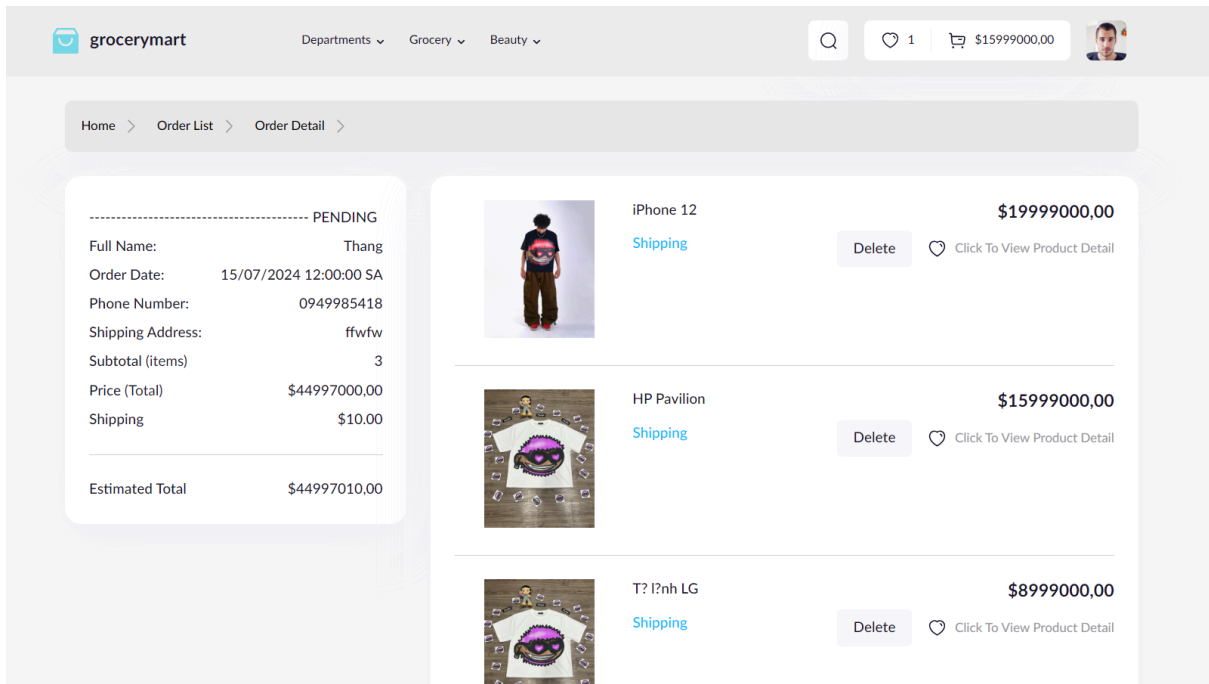
1

Next


5.1.3. Screen “Order List”



5.1.4. Screen “List Detail”



5.1.4. Screen “Review Product”



HP Pavilion

Delivered

★

★

★

★

●

Send Rating

Delete

Click To View Product Detail


Subtotal: \$31998000,00

Shipping: \$10.00

Total: \$31998010,00


< Back

5.1.5. Screen “Product List”




T-shirt

Category description here



Hoodie

Category description here

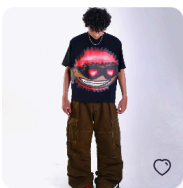


Jogger

Category description here

Total LavAzza 1320

Search product name




white crunk T-shirt

Crunk

\$350

★ 4.3




hoodie basic

Crunk

\$250

★ 4.3




T-shirt blue

Crunk

\$199

★ 4.3

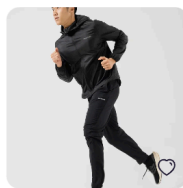


black crunk T-shirt

Crunk

\$350

★ 4.3




Black jogger

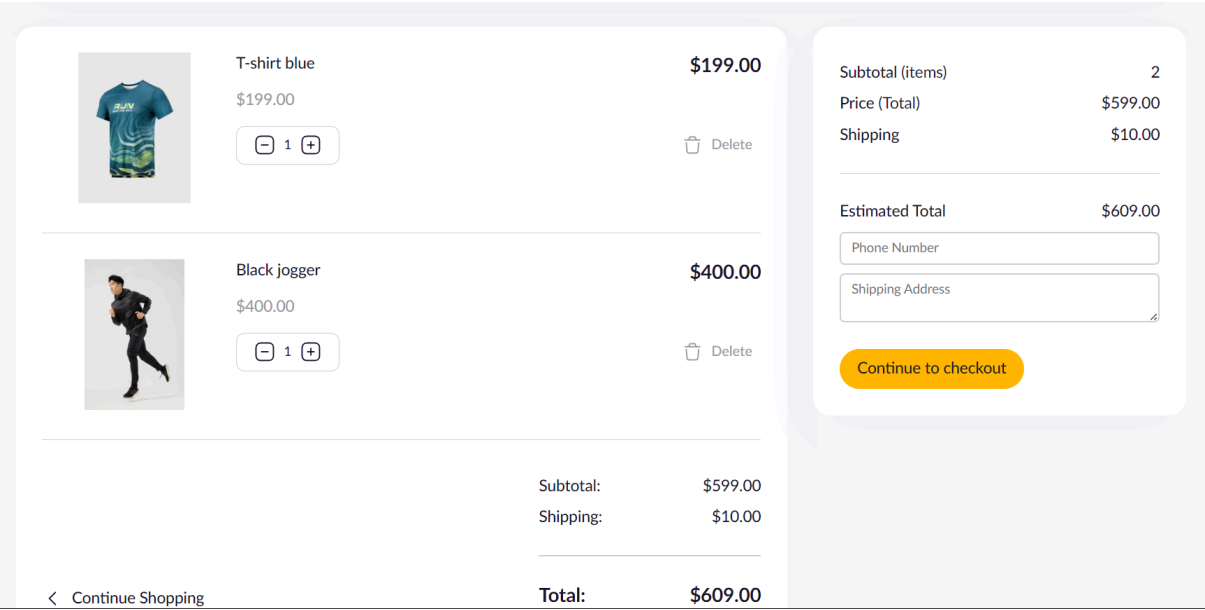
Crunk

\$400

★ 4.3

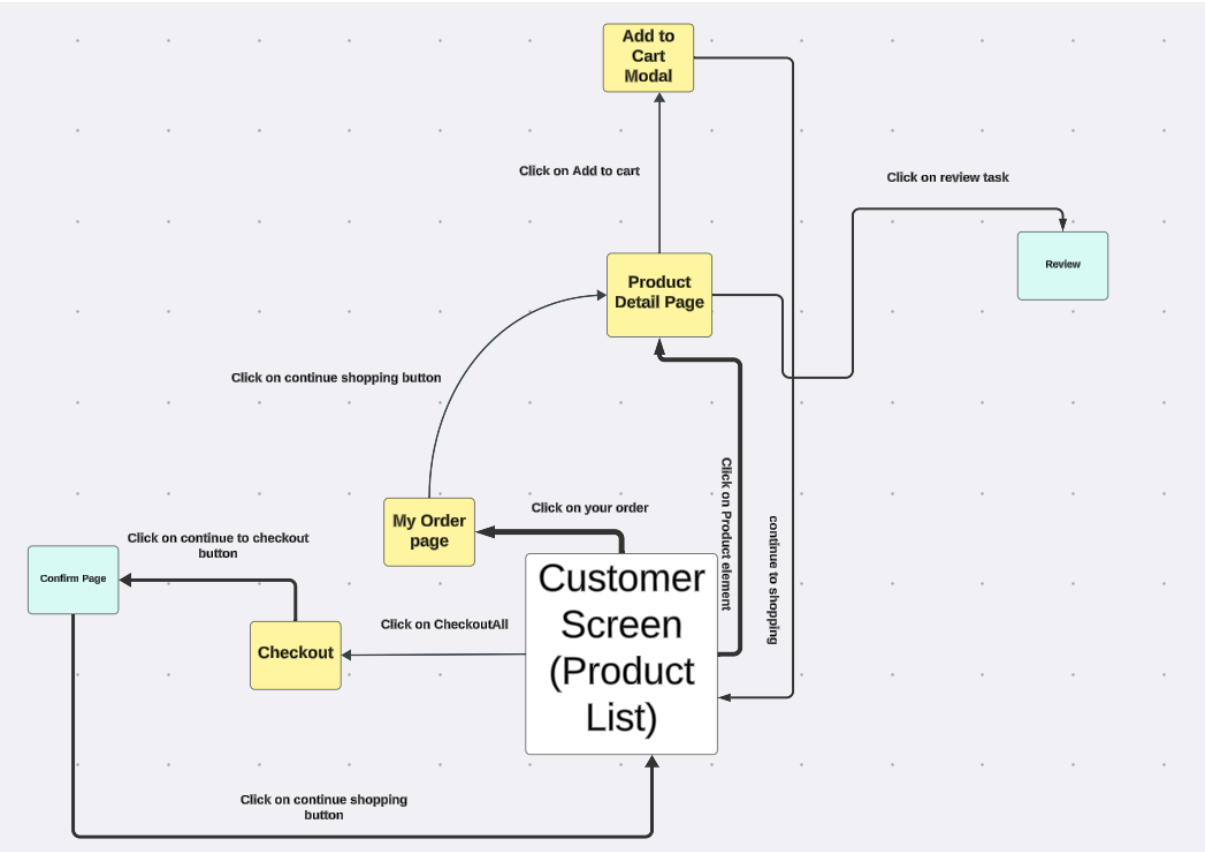


5.1.6. Screen “Checkout Order”



5.2. Interface Flow Diagrams

1. User interface flow



2. Admin interface flow

