

# Software design

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Eyechic System

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Version 2.0

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## Revision history

## **1. Document description**

This document describes the functionality for the Eyewear website system. It is divided into the following sections:

- In part 2, an overview of the site requirements will be provided, including a list of system users, use cases, use case diagrams, and activity diagrams depicting case scenarios most important use.
- In part 3, the E-R diagram and all the tables of the EyeChic website will be presented in detail.
- In section 4, all classes are organized by class and their behavior (sequence diagram) for the most important use cases will be presented.
- In section 5 most of the screen prototypes will be presented.
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## **2. SRS overview**

### **2.1. List of system users**

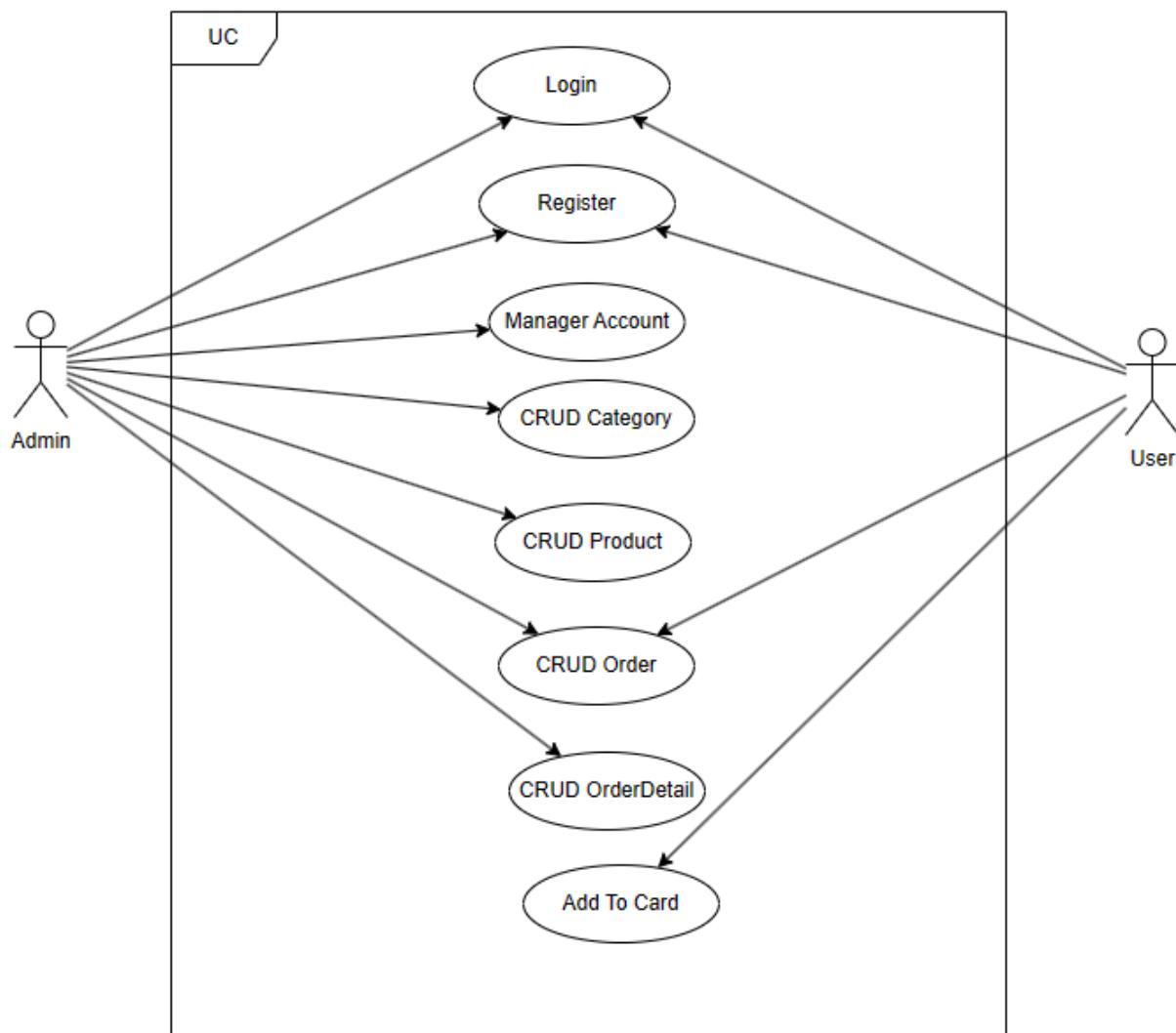
1. Admin: The person is manager website.
2. User: Customers go to the website to buy glasses and refer to the glass models.

### **2.2. List of use cases**

1. Login(s)
2. Register(s)
3. Account(s)
4. CRUD Category(s)
5. CRUD Product(s)
6. Order(s)
7. OrderDetail(s)
8. Add To Card(s)

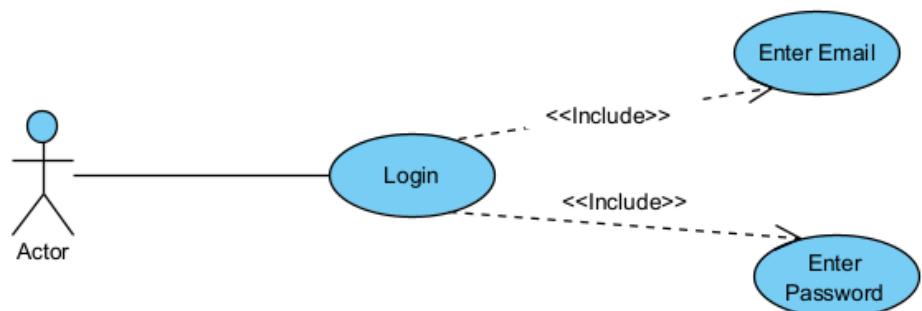
## 2.3. Use case diagram

### 2.3.1. Preliminary use case diagram

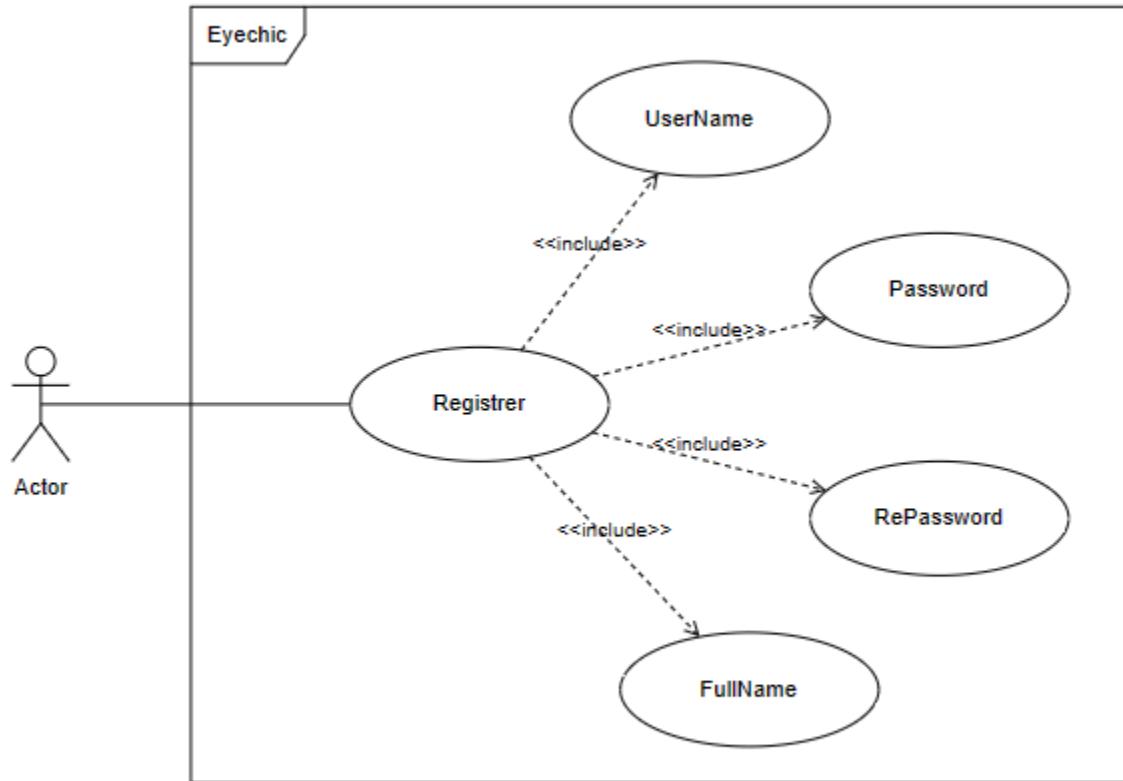


## 2.3.2. Use case detail diagrams

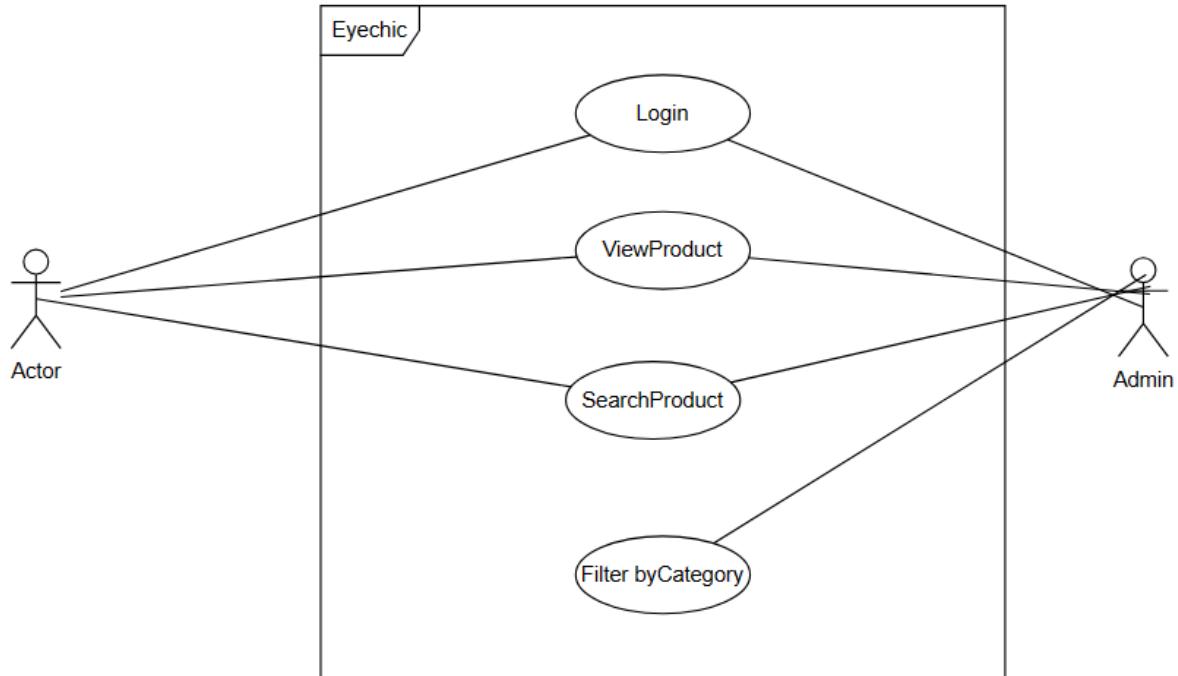
### 2.3.2.1. Use case “Login”



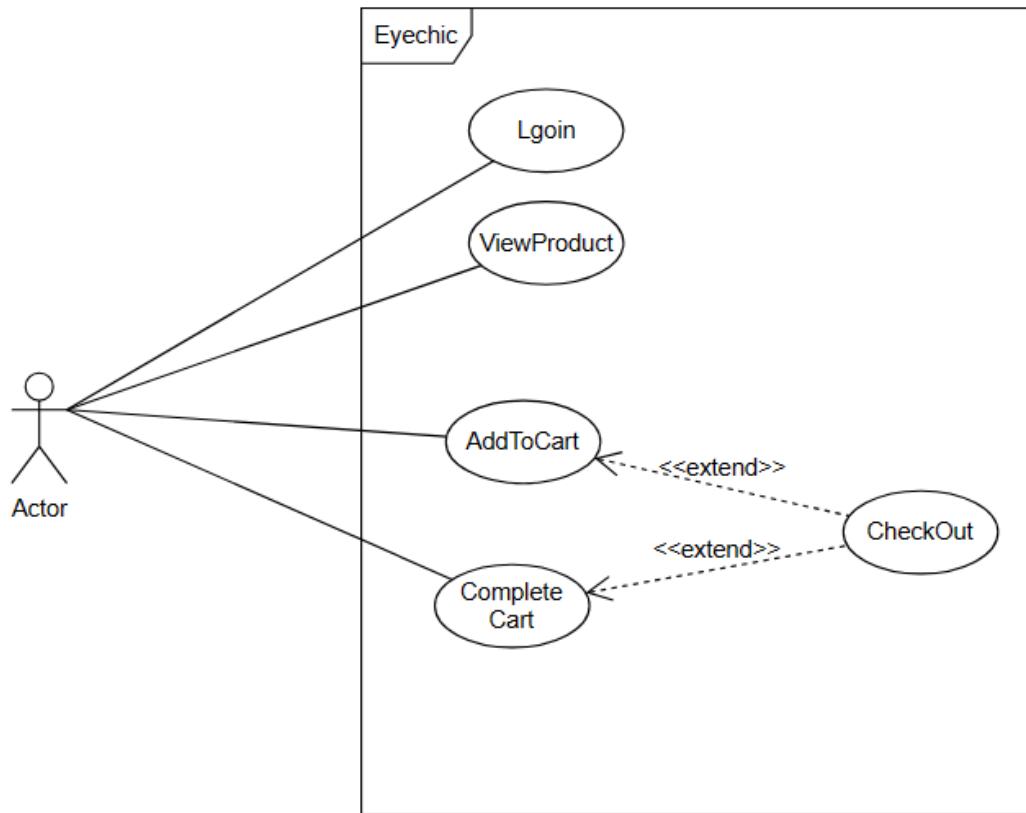
### 2.3.2.2. Use case "Register"



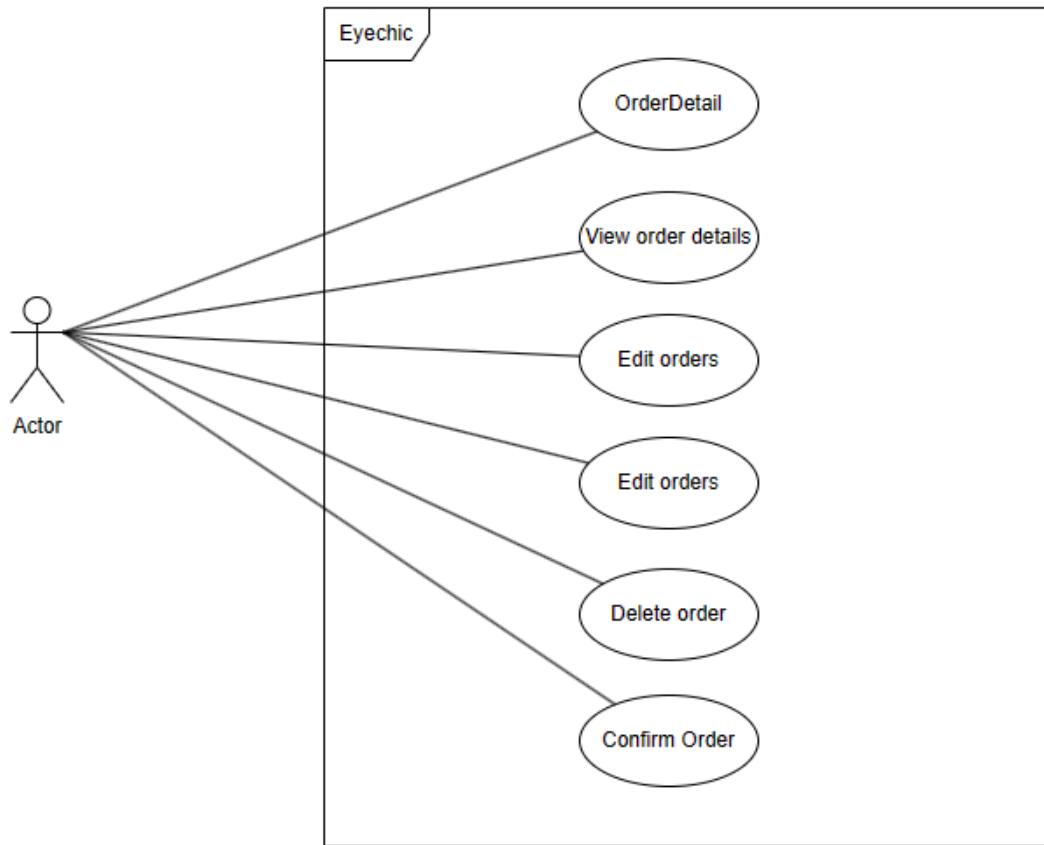
### 2.3.2.3. Use case "Product"



#### 2.3.2.4. Use case "Order"

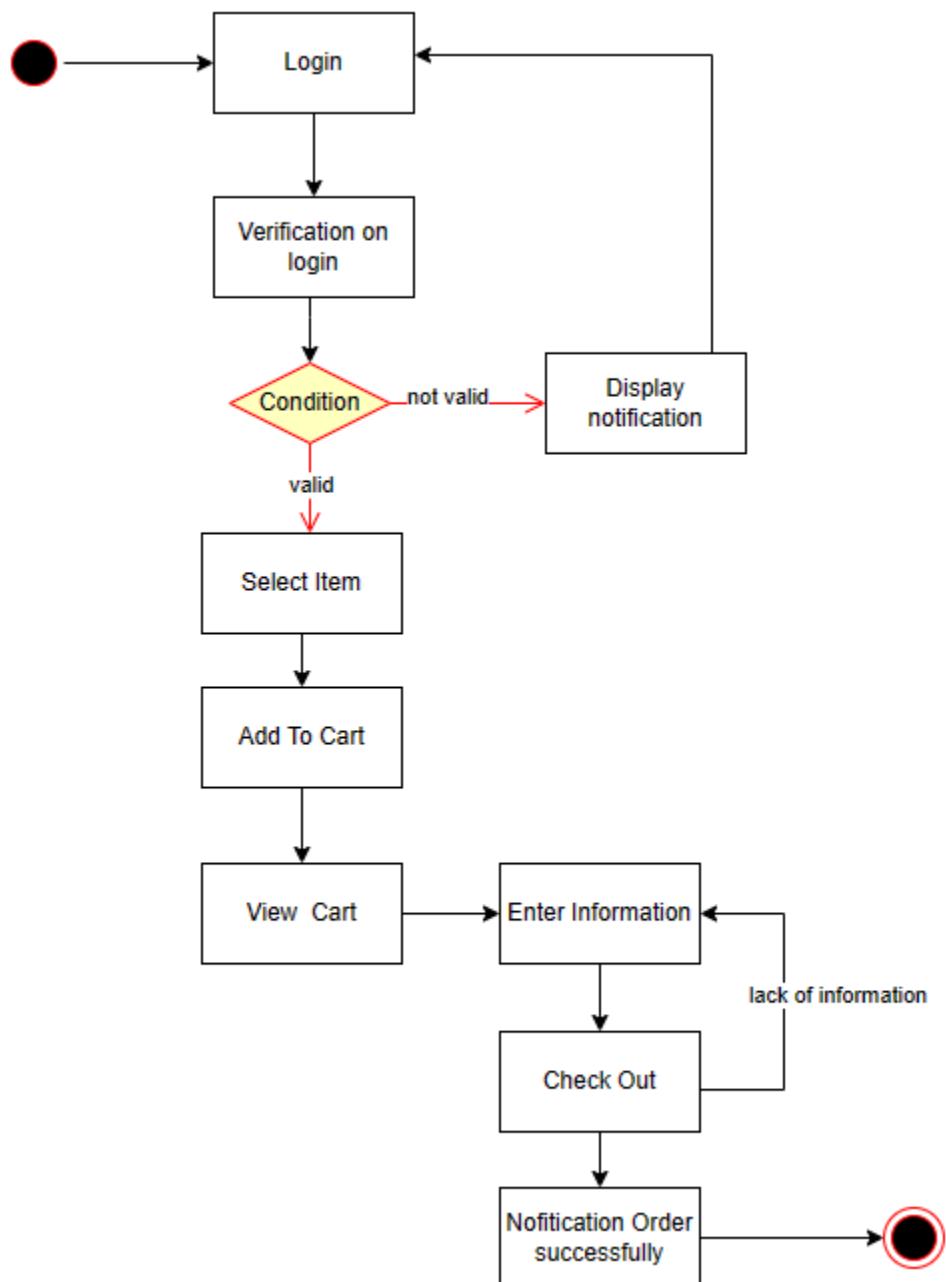


#### 2.3.2.5. Use case "OrderDetail"

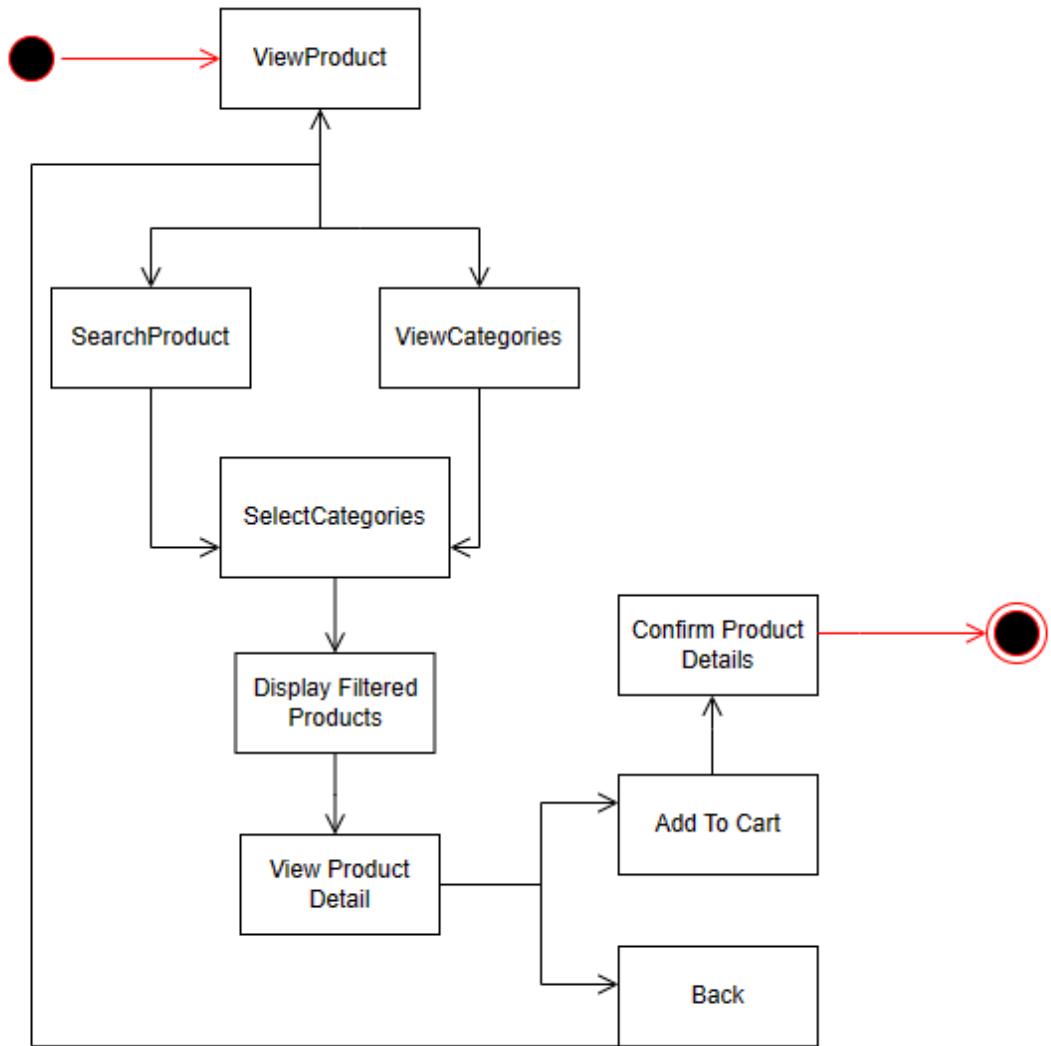


## 2.4. Activity diagrams of use case scenarios

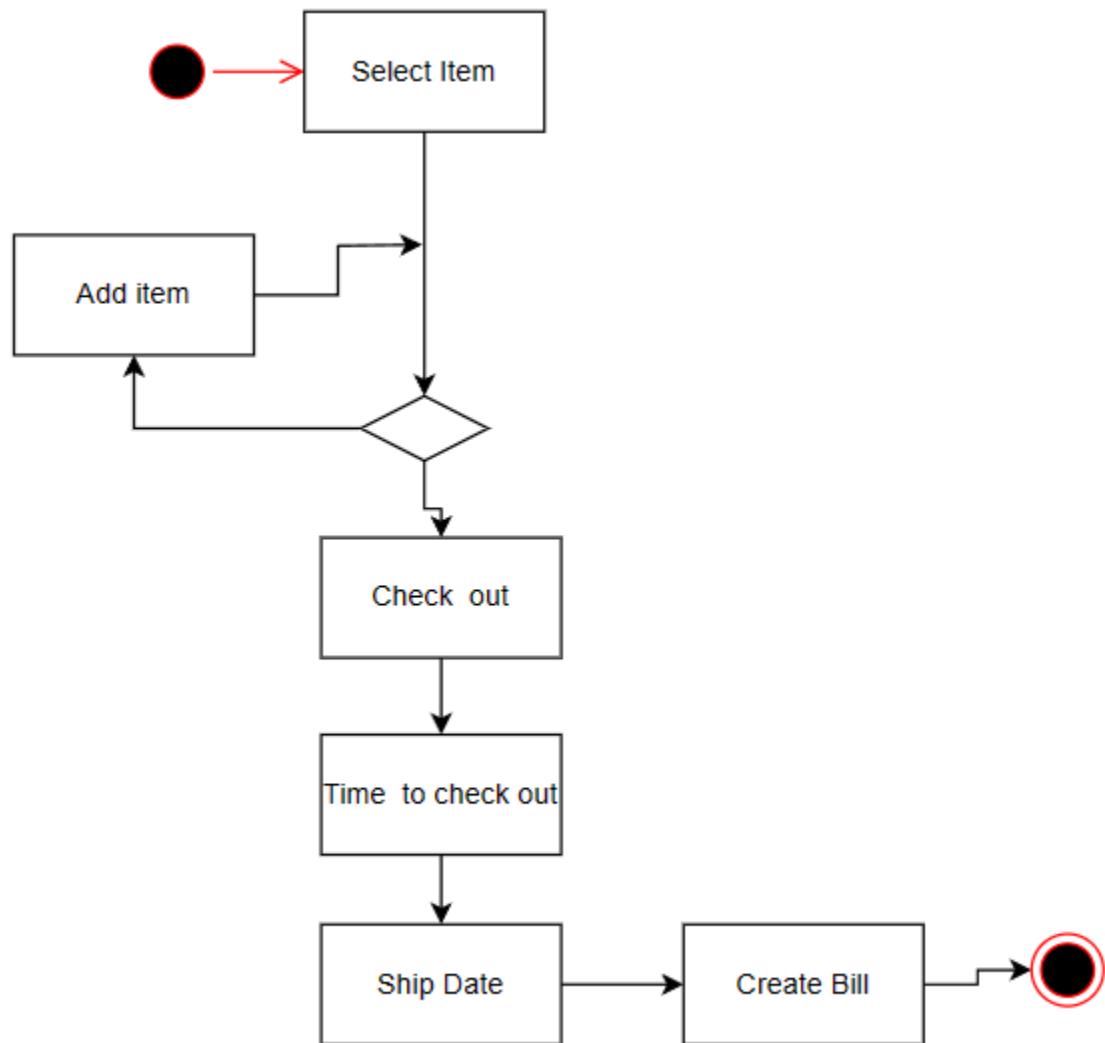
### 2.4.1. Activity diagram for use case “AddToCard”



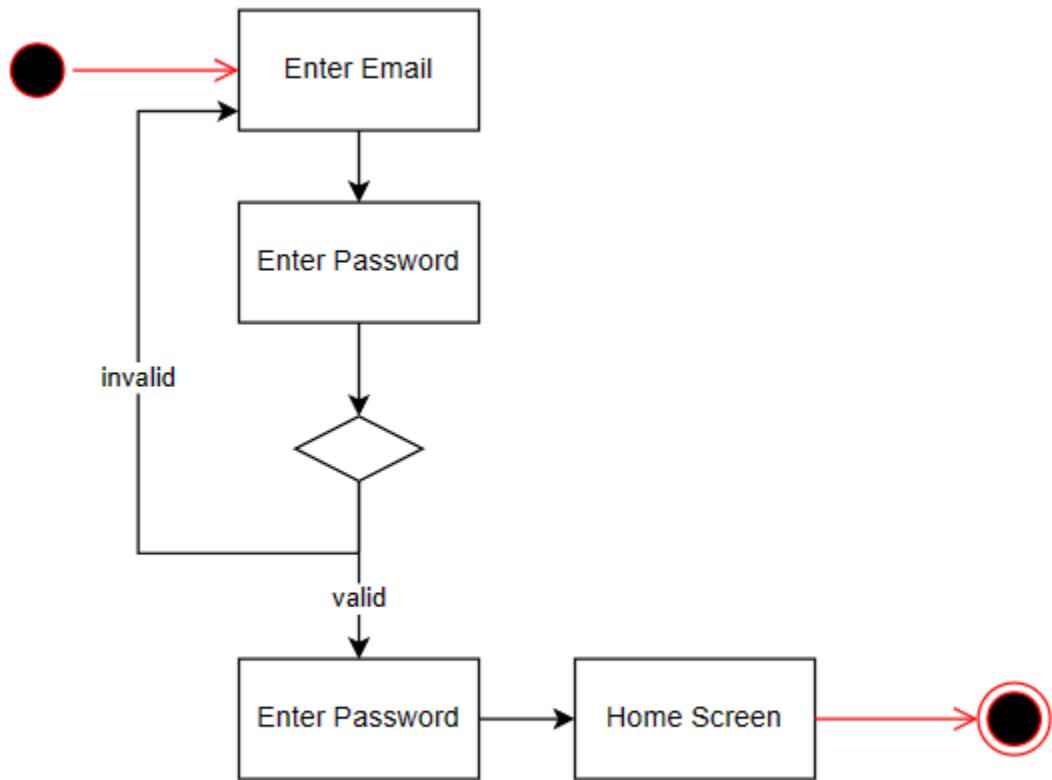
#### 2.4.2. Activity diagram for use case “Product”



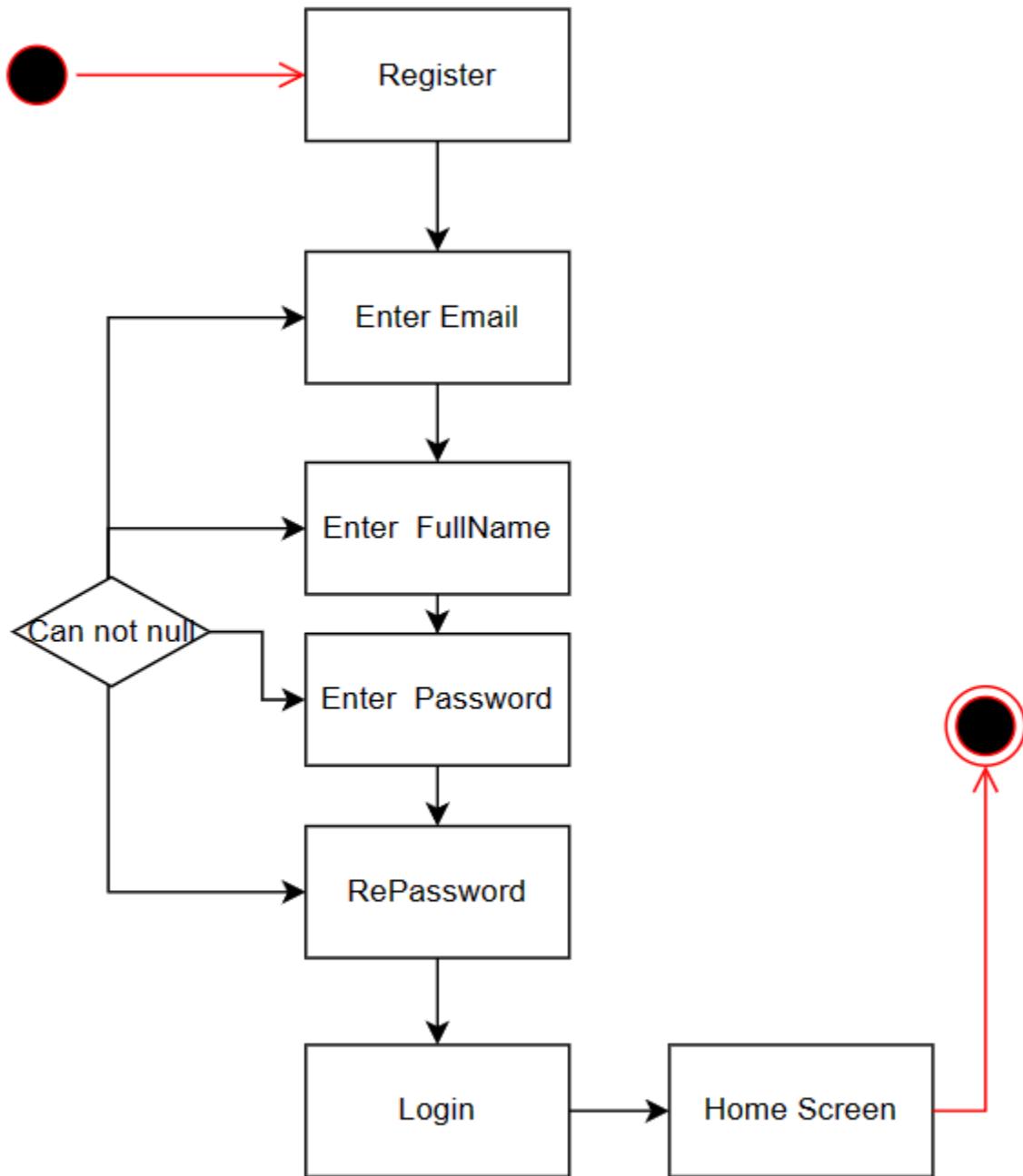
#### 2.4.3. Activity diagram for use case “Order”



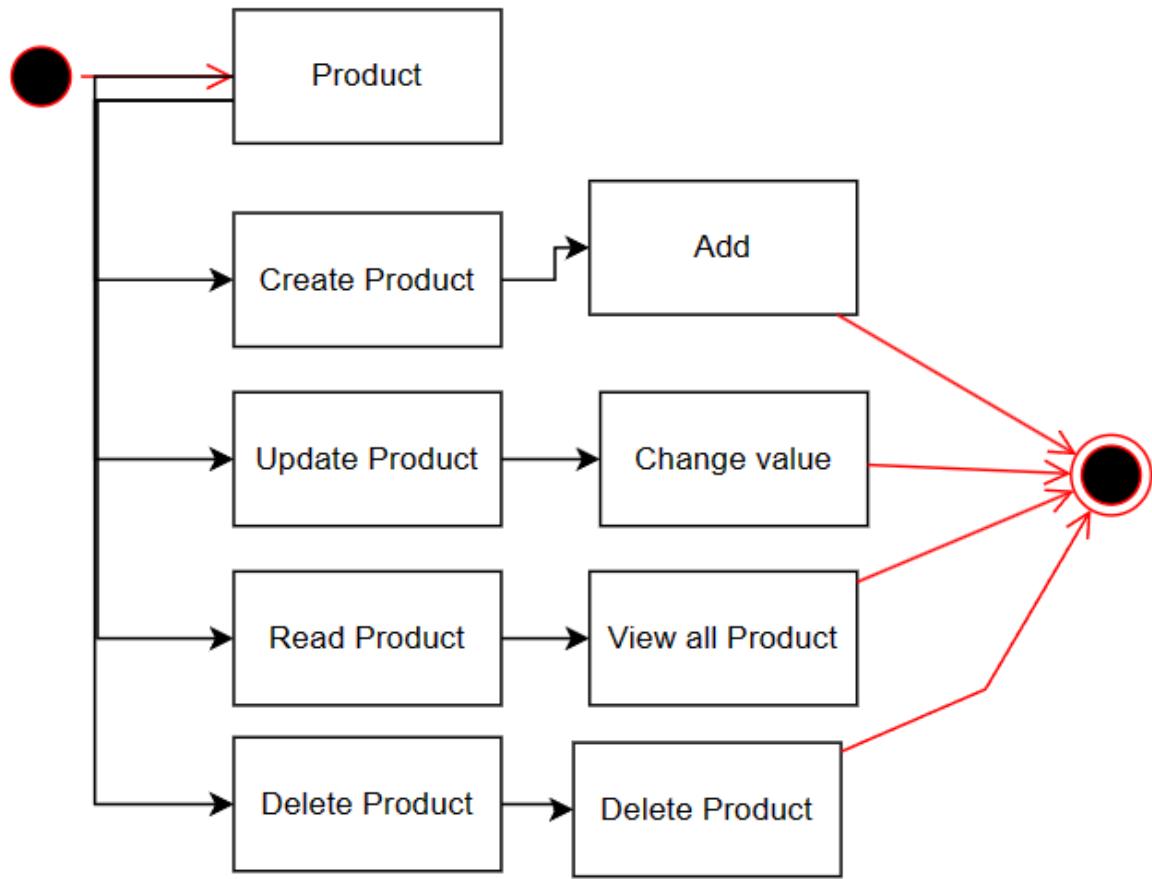
#### 2.4.4. Activity diagram for use case “Login”



#### 2.4.5. Activity diagram for use case “Register”

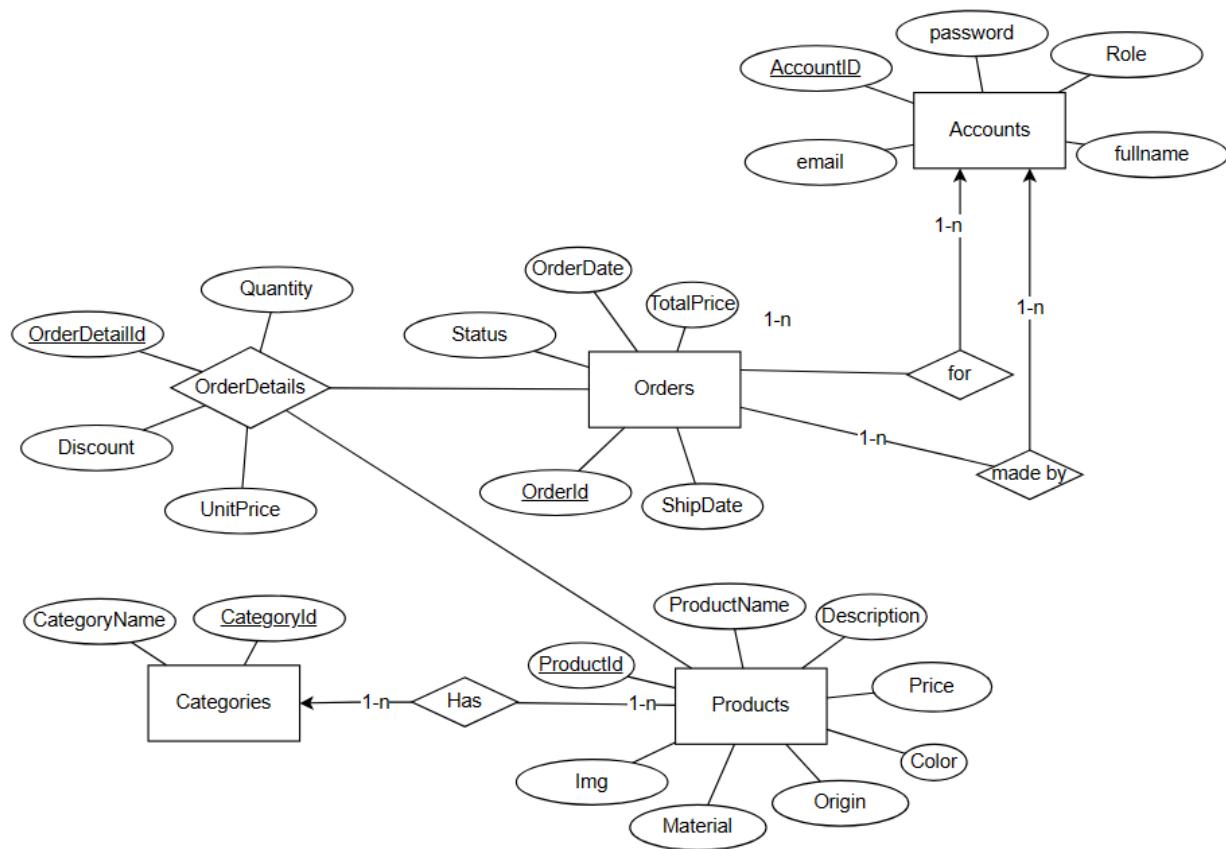


#### 2.4.6. Activity diagram for use case “Register”



### 3. Data model

#### 3.1. Entity Relationship Diagram



### 3.2. Table details/Chi tiết các bảng

Note: Attribute with underline is Primary key

#### 3.2.1 Table name: Products

Field name	Type	Size	Note
<u>ProductId</u>	Integer	10	Primary key
ProductName	String	MAX	Not null
Description	String	MAX	Allows null
Price	Integer		Allows null
Color	String	50	Allows null
Origin	String	MAX	Allows null
Material	String	MAX	Allows null

CategoryId	Integer		Not null
Img	String	MAX	Allows null

### 3.2.2. Table name: OrderDetails

Field name	Type	Size	Note
<u>OrderDetailId</u>	Integer		Primary key
OrderId	Integer		Foreign key, refers to Orders table
ProductId	Integer		Foreign key, refers to Products table
Quantity	Integer		Not null
UnitPrice	Integer		Allows null
Discount	Integer		Allows null

### 3.2.3. Table name: Orders

Field name	Type	Size	Note
<u>OrderId</u>	Integer		Primary key
OrderDate	Date		Not null
TotalPrice	Integer		Not null
AccountId	Integer		Foreign key, refers to Accounts table
ShipDate	Date		Allow null
Status	String		Allow null

### 3.2.4. Table name: Account

Field name	Type	Size	Note
<u>AccountId</u>	Integer		Primary key
email	String	MAX	Allow null
fullname	String	50	Not null

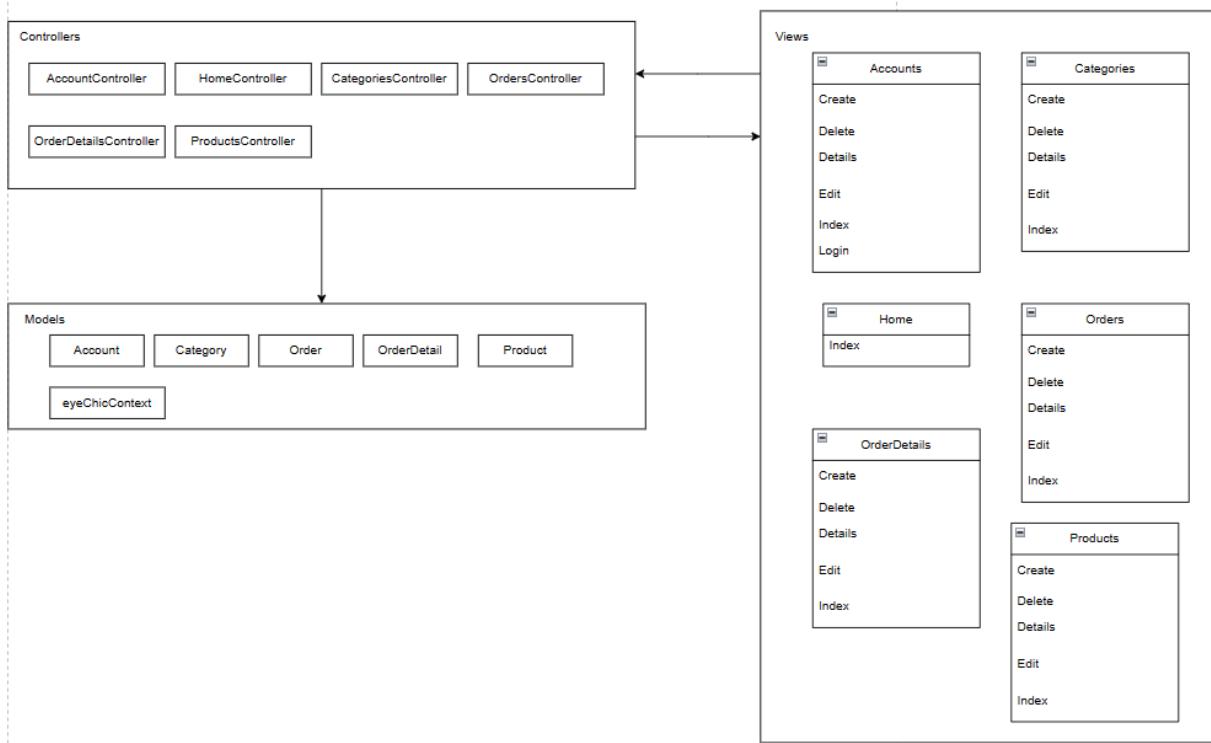
password	String	50	Not null
Role	Integer		Not null

### 3.2.5. Table name: Category

Field name	Type	Size	Note
<u>CategoryId</u>	Integer		Primary key
CategoryName	Integer	MAX	Not null

## 4. Class diagram

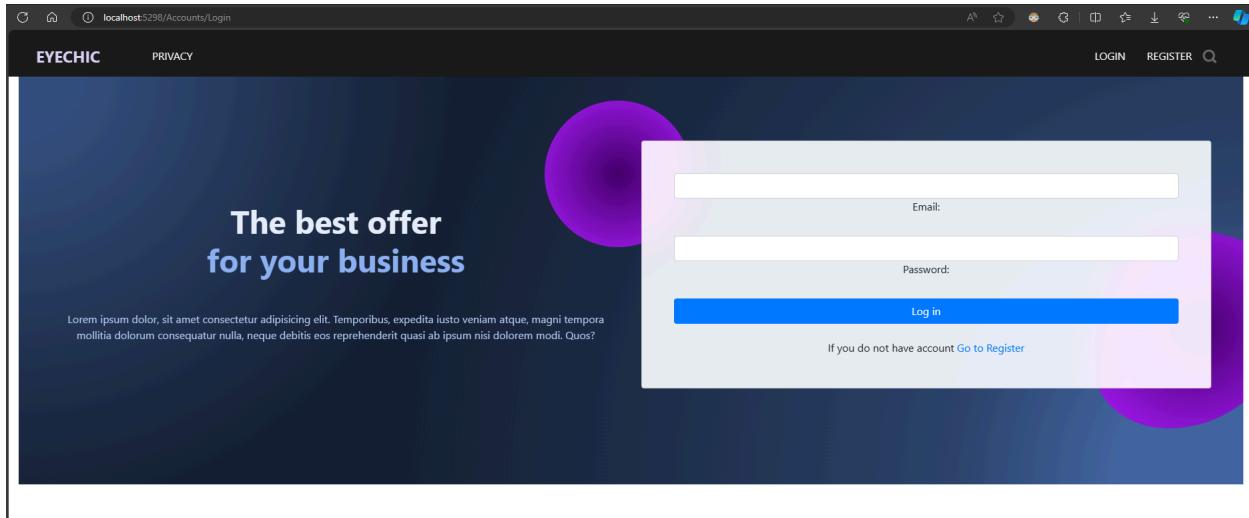
### List of classes in the MVC



## 5. User Interface Model Design

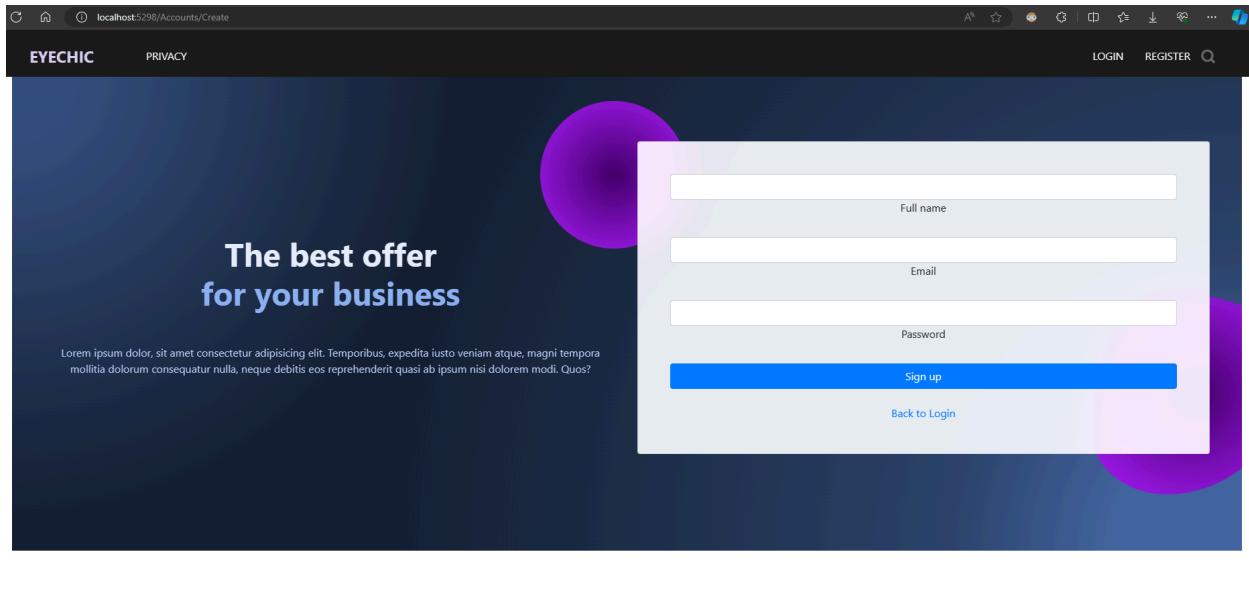
### 5.1. User interface model design

#### 5.1.1. Screen “Login”



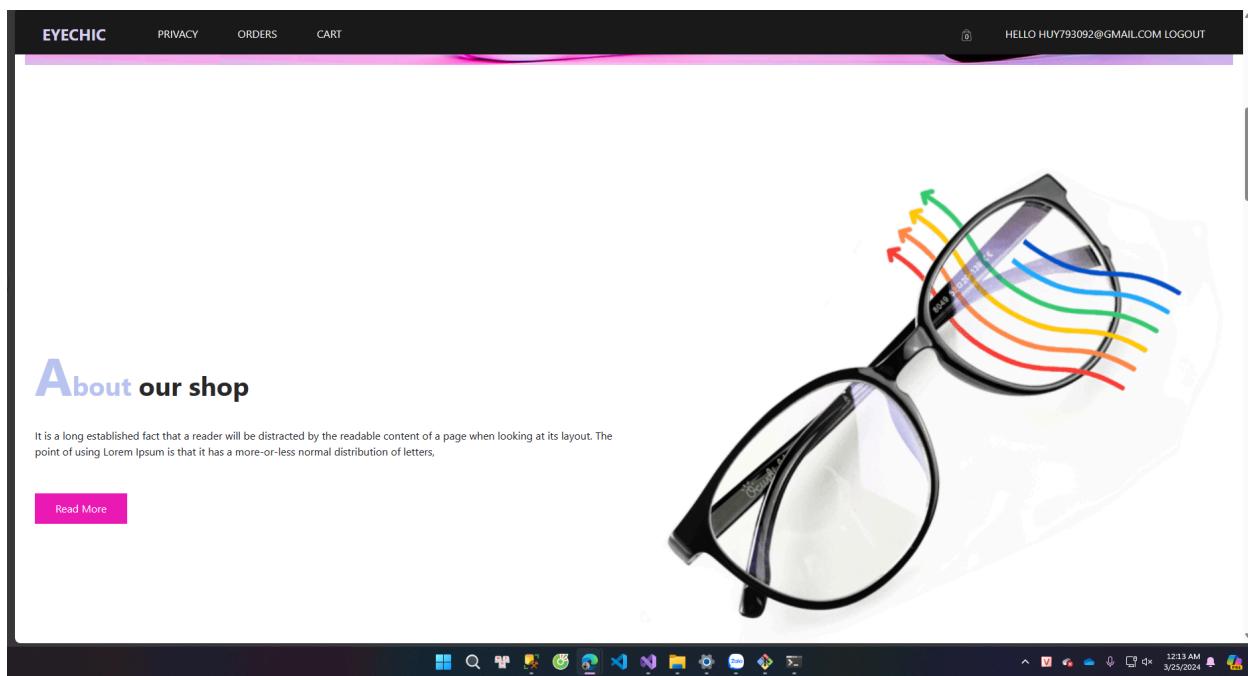
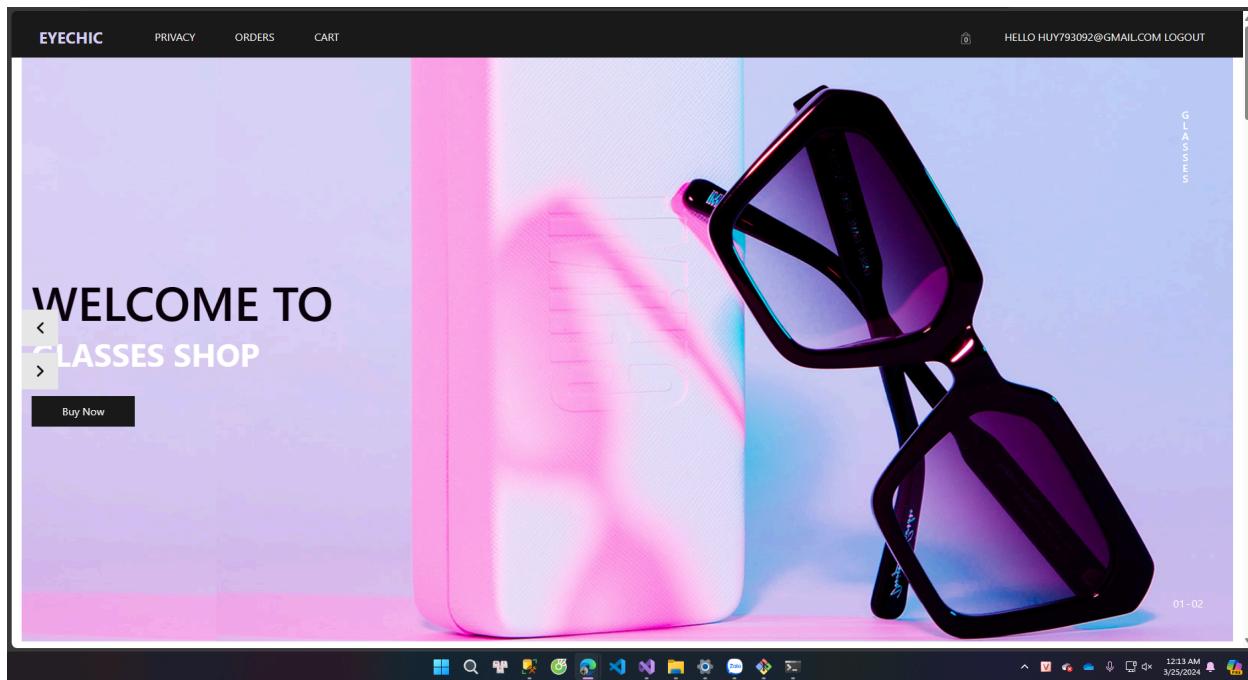
The screenshot shows a web browser window for the EYECHEC website. The URL is `localhost:5298/Accounts/Login`. The page has a dark blue background with a large purple circular graphic on the right. At the top left, there's a navigation bar with the EYECHEC logo, a PRIVACY link, and LOGIN/REGISTER buttons. The main content area features the text "The best offer for your business" and a placeholder text block. A central modal window for logging in contains fields for "Email" and "Password", a "Log in" button, and a link to "Go to Register".

#### 5.1.2. Screen “Register”



The screenshot shows a web browser window for the EYECHEC website. The URL is `localhost:5298/Accounts/Create`. The layout is similar to the login screen, with the EYECHEC logo, PRIVACY link, and LOGIN/REGISTER buttons at the top. The main content area includes the same promotional text and placeholder text. A registration modal window contains fields for "Full name", "Email", and "Password", a "Sign up" button, and a "Back to Login" link.

### 5.1.3. Screen "Home"



EYECHIC PRIVACY ORDERS CART

HELLO HUY793092@GMAIL.COM LOGOUT

## Our Glasses

Kính cận nam mắt vuông giả cận  
--- SL40 ---  
139000 đ  
[Add to Cart](#)

Kính gọng vuông nam nữ  
--- SL30 ---  
289000 đ  
[Add to Cart](#)

[See More](#)

EYECHIC PRIVACY ORDERS CART

HELLO HUY793092@GMAIL.COM LOGOUT

## Best Quality

01 It is a long established fact that a reader will be distracted by the readable content of a page when looking at its

03 layout. The point of using Lorem Ipsum is that it has a04 more-or-less normal distribution of letters,



EYECHEC PRIVACY ORDERS CART

HELLO HUY793092@GMAIL.COM LOGOUT



BOOK  
OUR  
SPECIAL  
OFFER

[See More offer](#)

EYECHEC PRIVACY ORDERS CART

HELLO HUY793092@GMAIL.COM LOGOUT

 **what** Says Our Customer

There are many variations of passages of Lorem Ipsum available, but the majority have suffered alteration in some form, by injected humour, or randomised words which don't look even slightly believable. There are many variations of passages of Lorem Ipsum available, but the majority have suffered alteration in some form, by injected humour, or randomised words which don't look even slightly believable.



Jacksmith sand

Request A call back

Name

Phone Number

Email

Message

#### 5.1.4. Screen “Cart”

The screenshot shows a web browser window for the 'EYECHIC' application at the URL `localhost:5298/Carts/Cart`. The page title is 'Giỏ hàng'. The top navigation bar includes links for 'EYECHIC', 'PRIVACY', 'ORDERS', 'CART', and a user account section with the email 'HELLO HUY793092@GMAIL.COM' and a 'LOGOUT' link. The main content area displays a table with a single row. The table columns are labeled 'STT', 'ÁNH', 'TÊN SẢN PHẨM', 'SỐ LƯỢNG', 'GIÁ', and 'XÓA'. The row contains: STT 1, ÁNH (image thumbnail), TÊN SẢN PHẨM 'Kính cận nam mắt vuông giả cận', SỐ LƯỢNG 2, GIÁ 278000, and XÓA (Delete button). Below the table, there are input fields for 'Total:' (278000) and dates ('OrderDate' and 'ShipDate', both mm/dd/yyyy format). A red 'Tạo Bill' button is located at the bottom left.

STT	ÁNH	TÊN SẢN PHẨM	SỐ LƯỢNG	GIÁ	XÓA
1		Kính cận nam mắt vuông giả cận	2	278000	

Total: 278000

OrderDate:

ShipDate:

**Tạo Bill**

#### 5.1.5. Screen “CRUD Account”

The screenshot shows a web browser window for the 'EYECHIC' application at the URL `localhost:5298/Accounts`. The page title is 'Accounts management'. The top navigation bar includes links for 'PRIVACY', 'ACCOUNTS', 'CATEGORIES', 'PRODUCTS', 'REPORTS', and a user account section with the email 'HELLO ANHBM1311HUNG@GMAIL.COM' and a 'LOGOUT' link. The main content area displays a table with five rows of account data. The table columns are labeled 'Email', 'Fullname', 'Password', and 'Role'. The data is as follows:

Email	Fullname	Password	Role
anhbm1311hung@gmail.com	Bùi Mạnh Hùng	13112002	1
hungbmhe161538@fpt.edu.vn	Bui Manh Hung	131102	2
hung@fpt	Bui Manh Hung	123	2
huy793092@gmail.com	Hieu Pham	123	2

A blue 'Create New' button is located at the top right of the table area.

### 5.1.6. Screen “CRUD Categories”

EYECHIC PRIVACY ACCOUNTS CATEGORIES PRODUCTS REPORTS HELLO ANHBM1311HUNG@GMAIL.COM LOGOUT

**Categories management**

Create New

CategoryName	Action
Gọng kim loại	Edit   Details   Delete
Gọng nhựa	Edit   Details   Delete
Gọng nhựa dẻo	Edit   Details   Delete
Gọng mắt mèo	Edit   Details   Delete
Phụ kiện kính mắt	Edit   Details   Delete

### 5.1.7. Screen “CRUD Product”

EYECHIC PRIVACY ACCOUNTS CATEGORIES PRODUCTS REPORTS HELLO ANHBM1311HUNG@GMAIL.COM LOGOUT

**Products Management**

Create New

ProductName	Description	Price	Quantity	Color	Origin	Material	Img	Category	Action
Kính cận nam mắt vuông giá cận	cam kết 100% sản phẩm là ánh thật shop tự chụp, quý khách hoàn toàn yên tâm khi mua và sử dụng sản phẩm.	139000	40	Black	EyeChic	Nhựa cứng		Gọng nhựa	Edit   Details   Delete
Kính gọng vuông nam nữ	- Chân gọng kính làm từ nhựa dẻo, giúp mang gọng kinh trong thời gian dài cũng không gây khó chịu hay đau ở vành tai. - Mắt kính theo gọng là mắt kính 0 độ các bạn có thể mang giàn, chống bụi và lắp mắt kính cận. - Giá sản phẩm chưa bao gồm dịch vụ cắt mắt kính cận. - Chốt gọng chắc chắn giúp giữ form kính mắt tốt. - Gọng kính được thiết kế thời trang phù hợp cho cả nam và nữ. - Các gọng KÍNH MẮT được phủ lớp chống UV400.	289000	30	Black / Đen bóng	EyeChic	Nhựa cứng		Gọng nhựa	Edit   Details   Delete

### 5.1.8. Screen “Detail Product”

Detail product

ProductName	Kính cận nam mắt vuông giá cận
Description	cam kết 100% sản phẩm là ảnh thật shop tự chụp, quý khách hoàn toàn yên tâm khi mua và sử dụng sản phẩm.
Price	139000 đ
Quantity	40
Category	Gọng nhựa

[Buy](#)

[Back to home page](#)

## 6. Interface Flow Diagrams (p. 51)

