



# CAPSTONE PROJECT REPORT

## Report 3 – Software Requirement Specification

– Hanoi, March 2023 –

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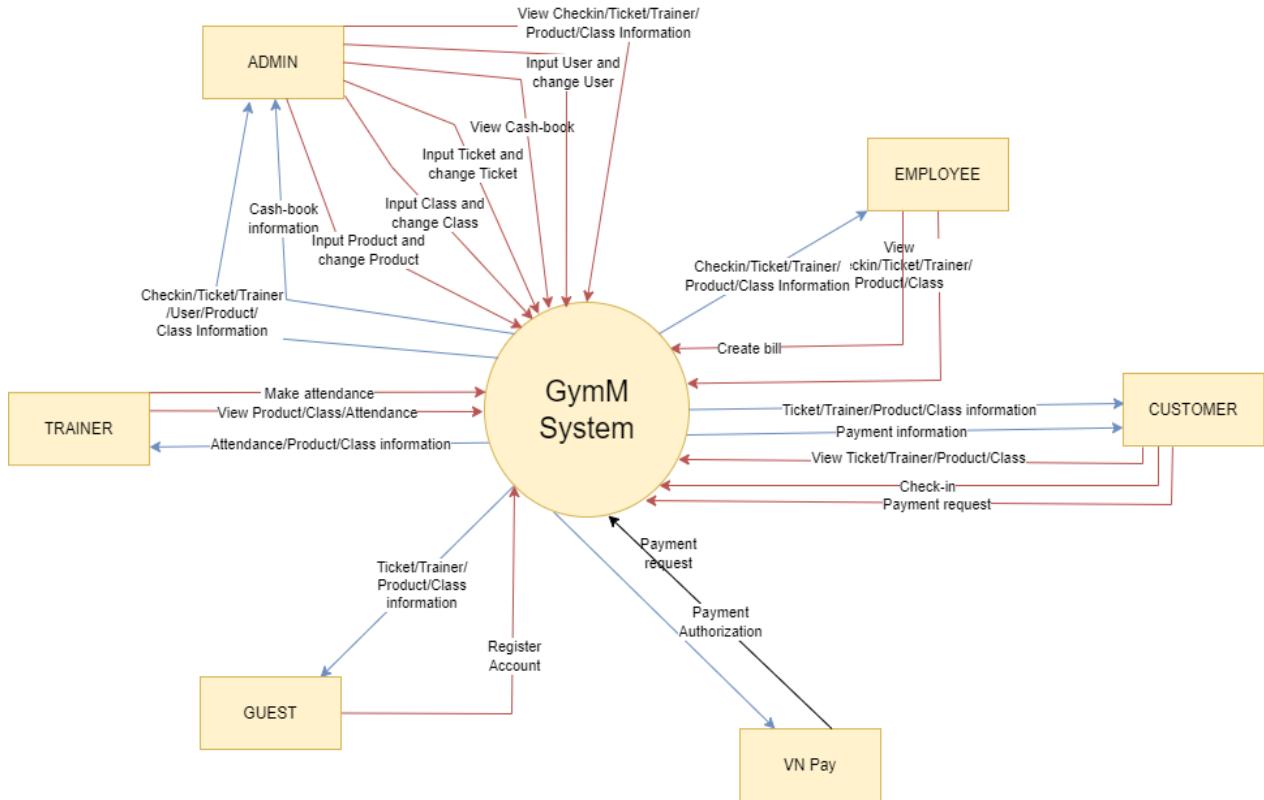
## I. Record of Changes

Date	A* M, D	In charge	Change Description
02/02/2023	A	LuongHDHE141257	Add product overview
03/02/2023	A	NamNCHE141679	Add use case diagram
19/02/2023	A	NamNCHE141679	Add description
20/02/2023	M	NamNCHE141679	Update use case
24/02/2023	A	HieuHMHE141258	Add feature detail
15/03/2023	A	DuongLDHE141435	Add functional requirement (System functional overview)
24/04/2023	M	LuongHDHE141257	Update product overview
24/04/2023	M	NamNCHE141679	Update use case diagram
26/05/2023	M	HieuHMHE141258	Update description
27/05/2023	M	HieuHMHE141258	Update feature detail
27/05/2023	M	NamNCHE141679	Update use case diagram
29/05/2023	M	LuongHDHE141257	Update product overview

\*A - Added M - Modified D - Deleted

## II. Software Requirement Specification

### 1. Product Overview



### 2. User Requirements

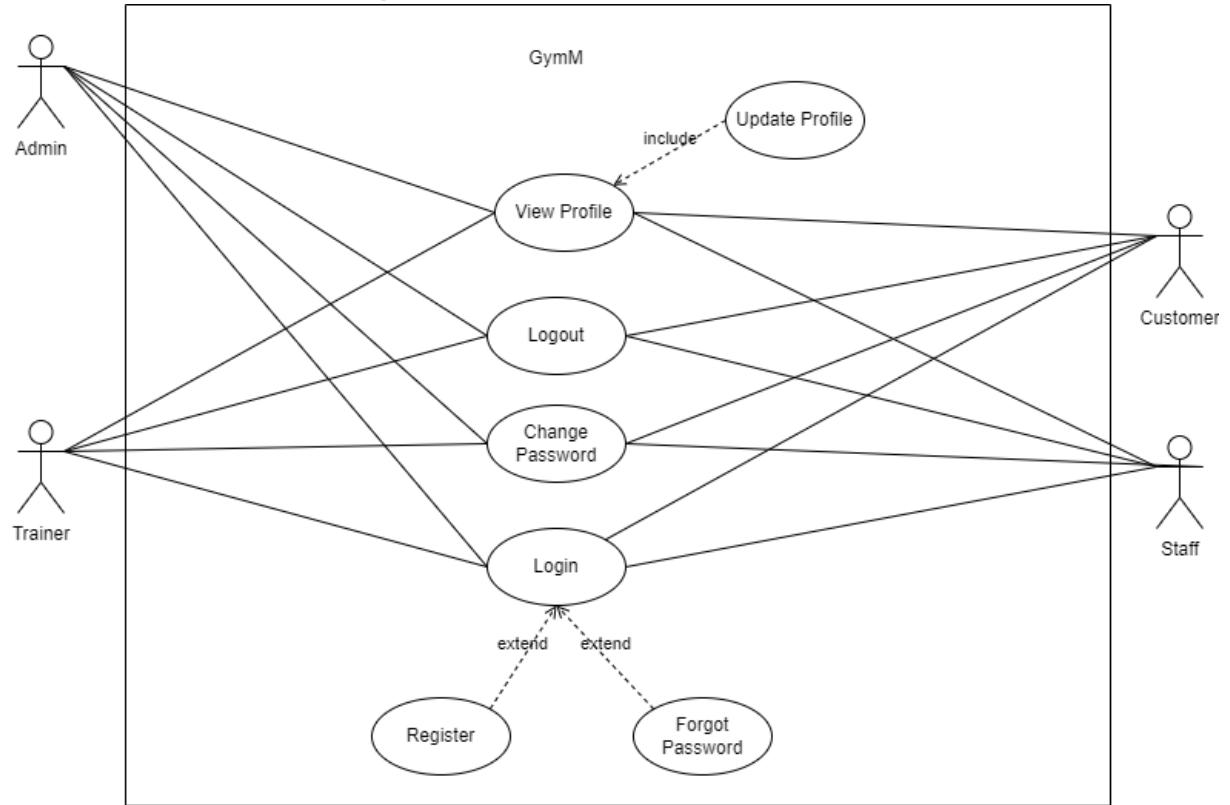
#### 2.1 Actors

#	Actor	Description
1	Administrator	Admin has full control, manage system
2	Staff	view list Trainer, list Ticket, create ticket detail
3	Trainer/PT	Manage students, plan class learning content
4	Customer	Register for Ticket , trainer ticket, trainer
5	Guest	Access to the Home Page, Register account

## 2.2 Use Cases

### 2.2.1 Diagram(s)

#### 2.2.1.1 Actor detail use case diagram



a. Admin

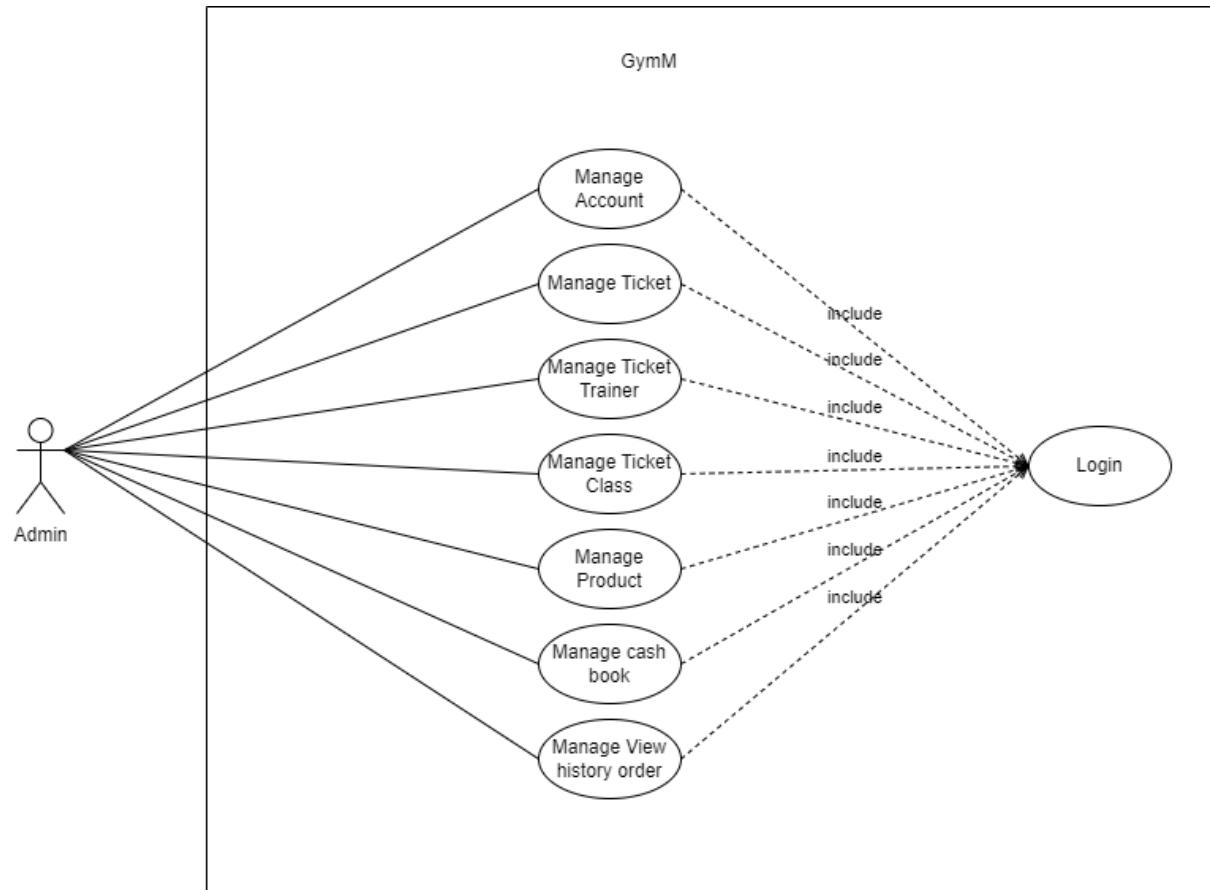


Figure 5. Admin use cases

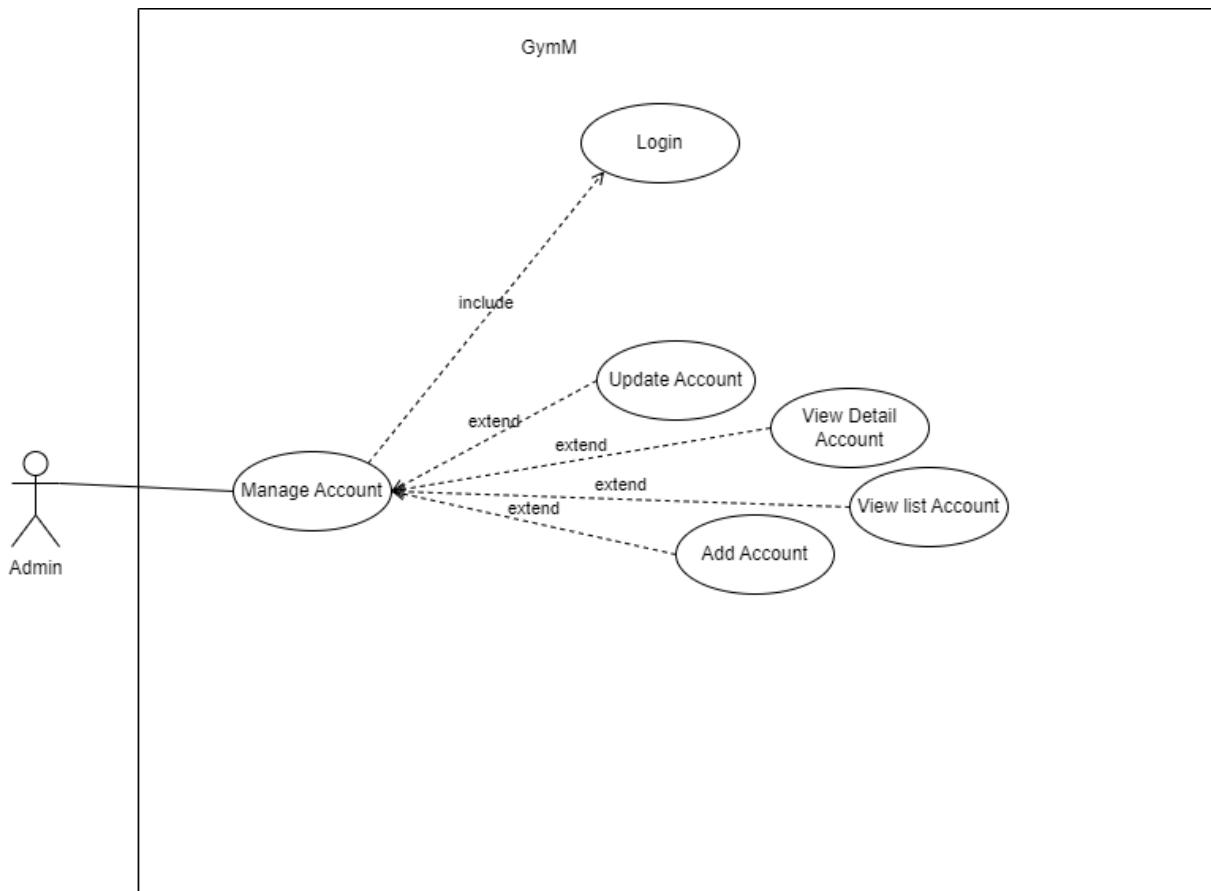


Figure 6. Admin with 'Manage Account' use cases

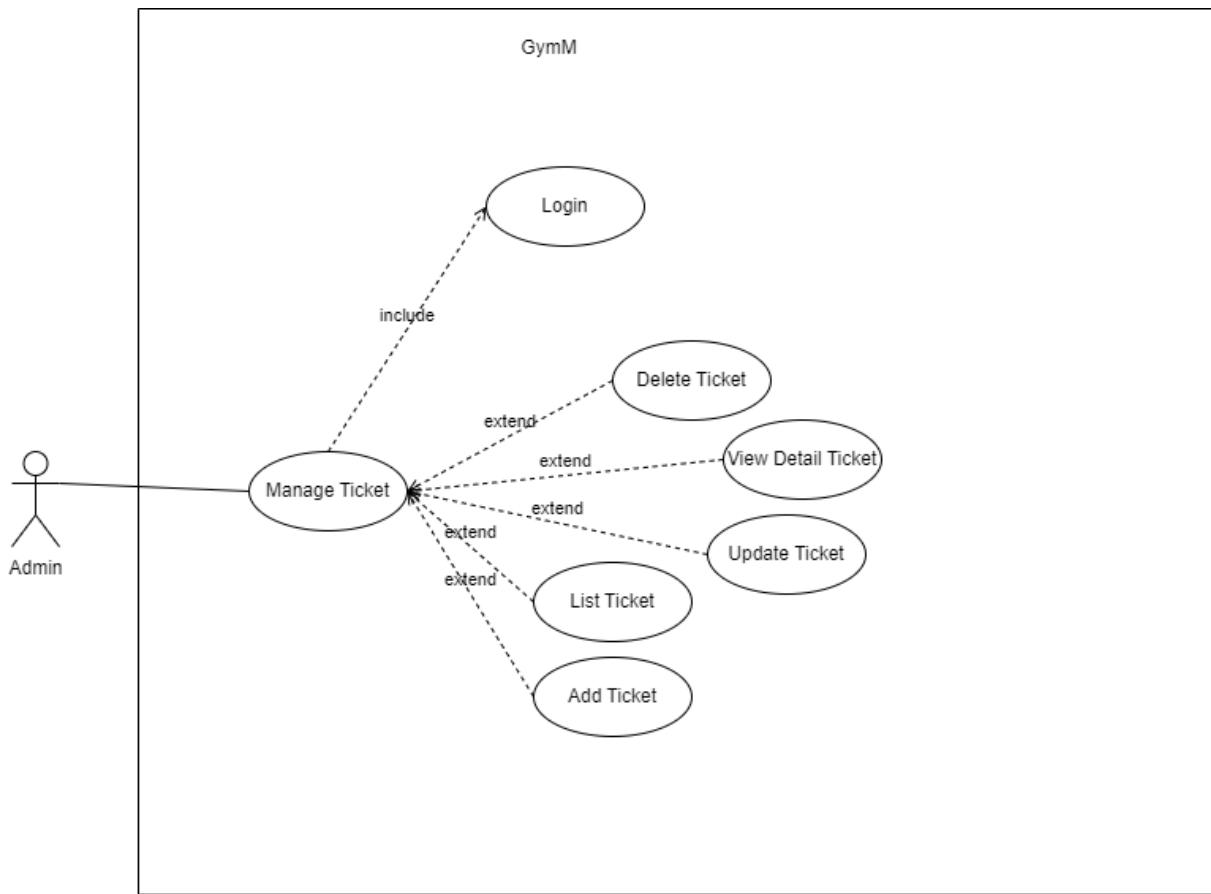


Figure 7. Admin with 'Manage Ticket' use case

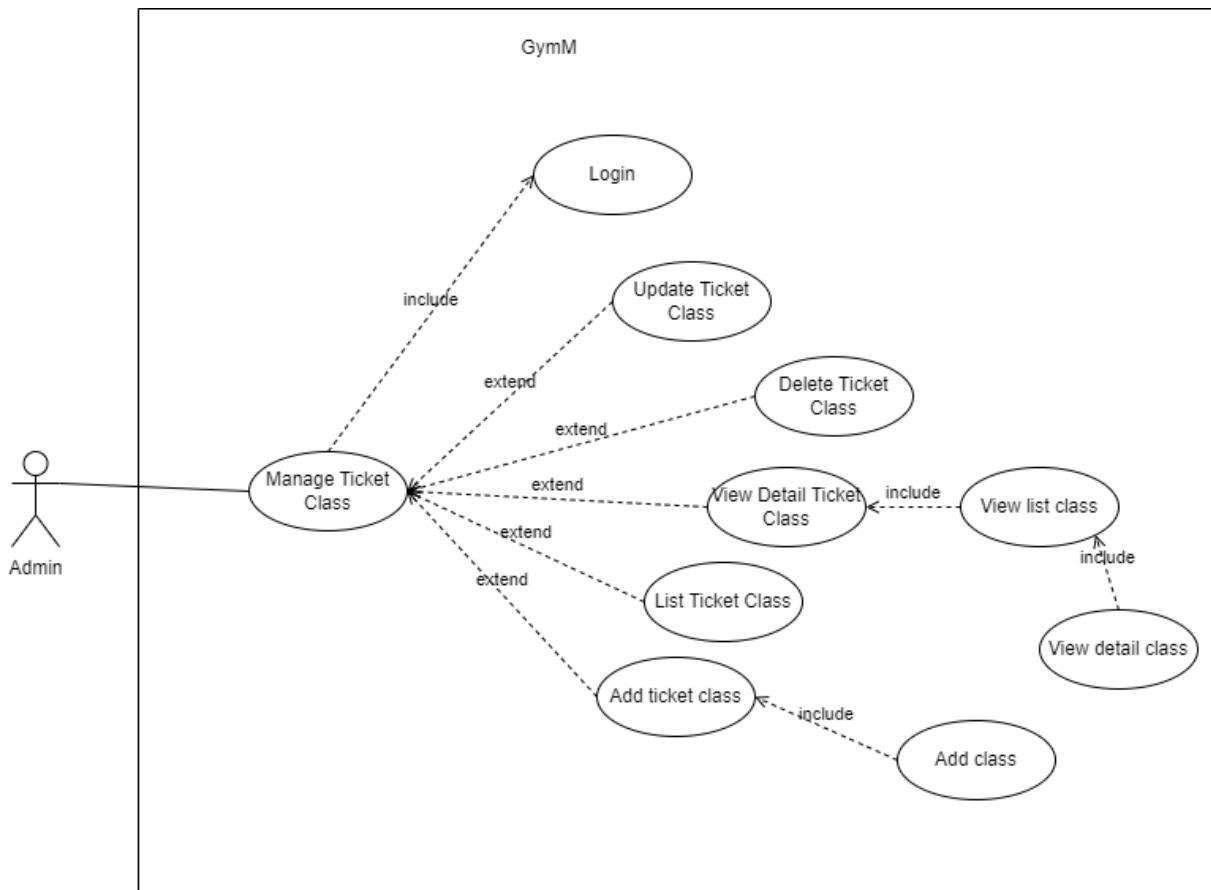


Figure 8. Admin with 'Manage Ticket Class' use case

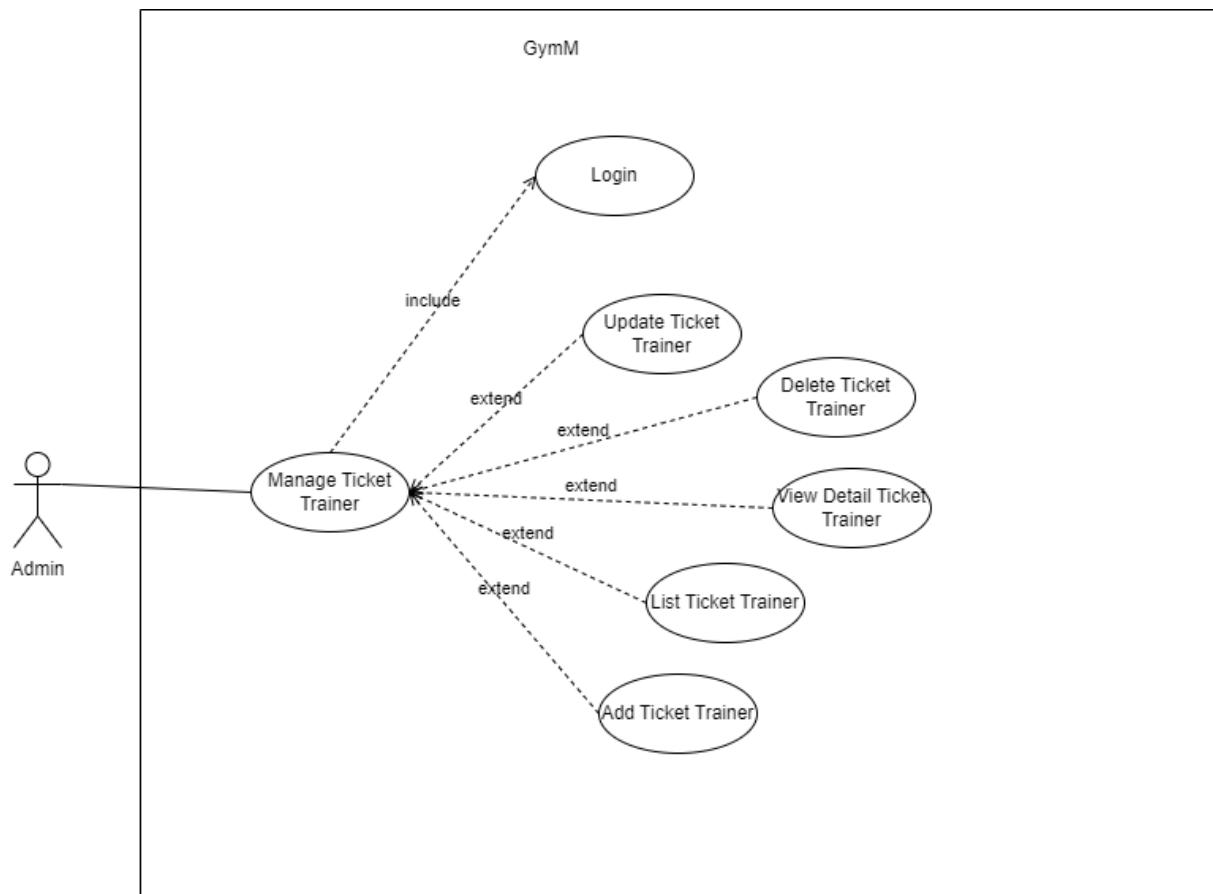


Figure 9. Admin with 'Manage Ticket Trainer' use case

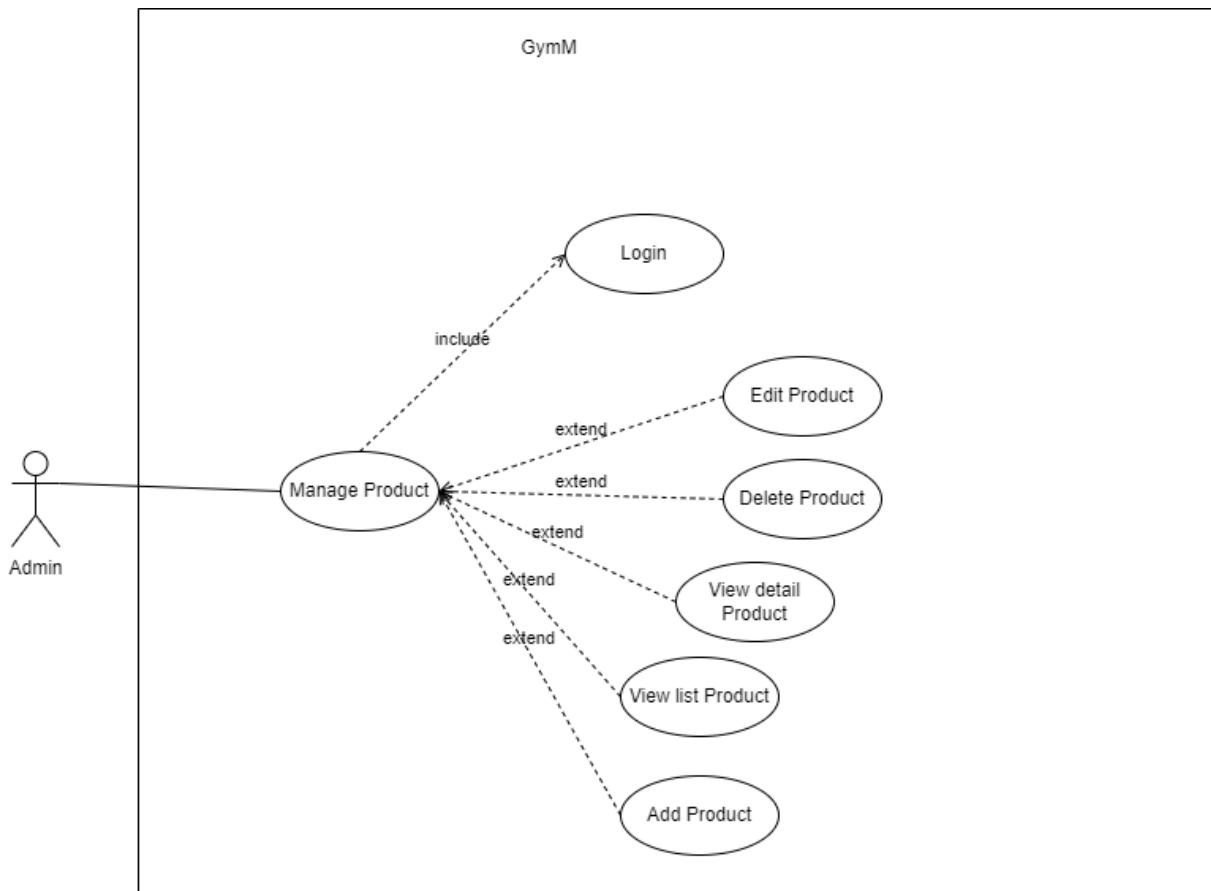


Figure 10. Admin with 'Manage Product' Use case

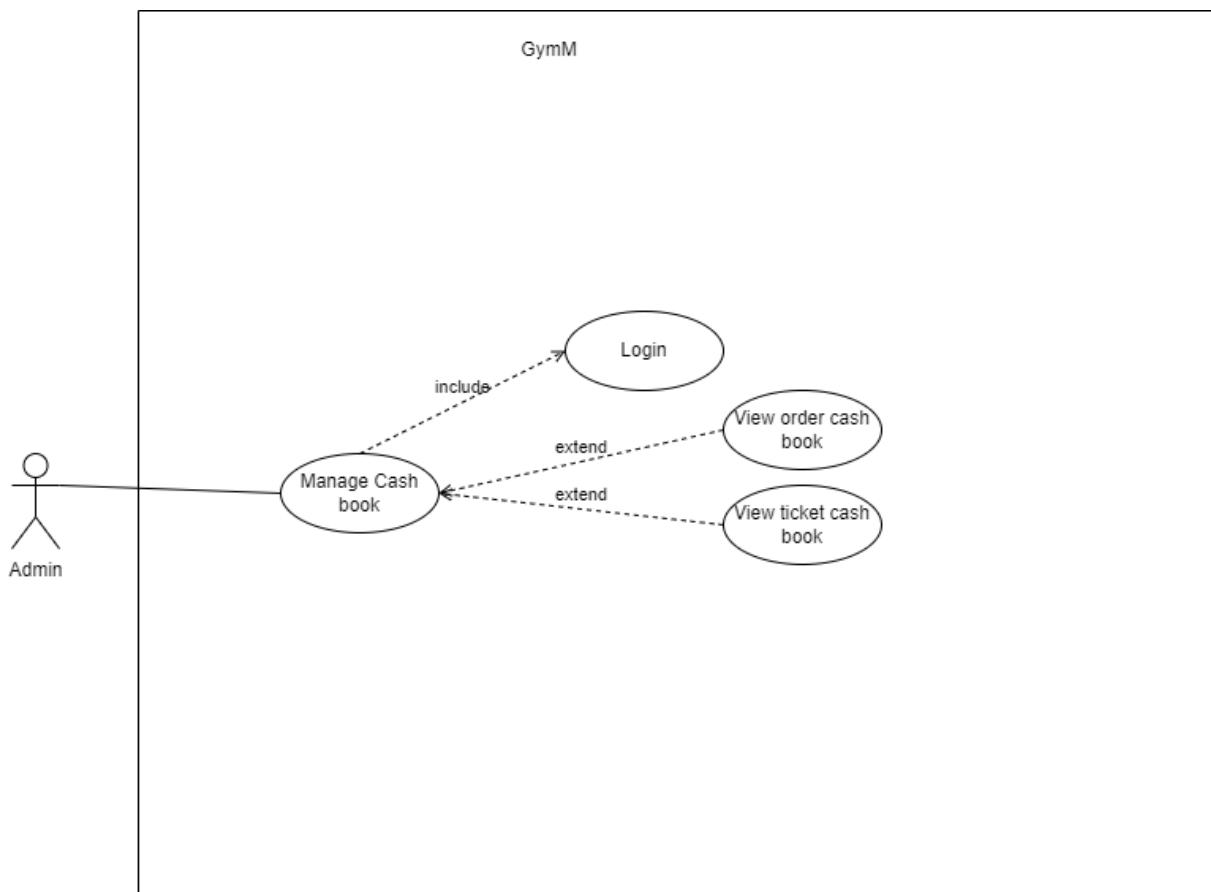


Figure 11. Admin with 'Manage Cash book' use case

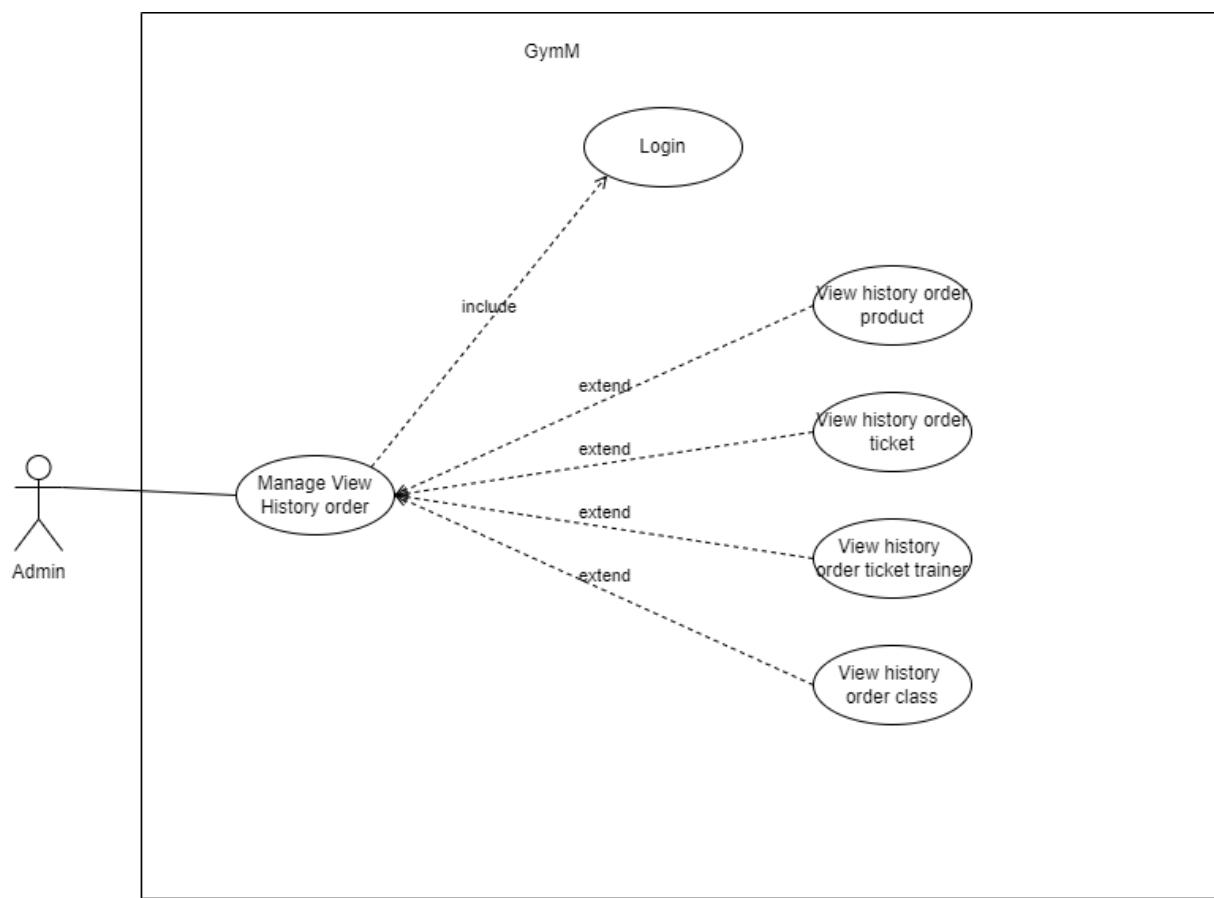


Figure 12. Admin with 'Manage View History Order' use case

b. Guest

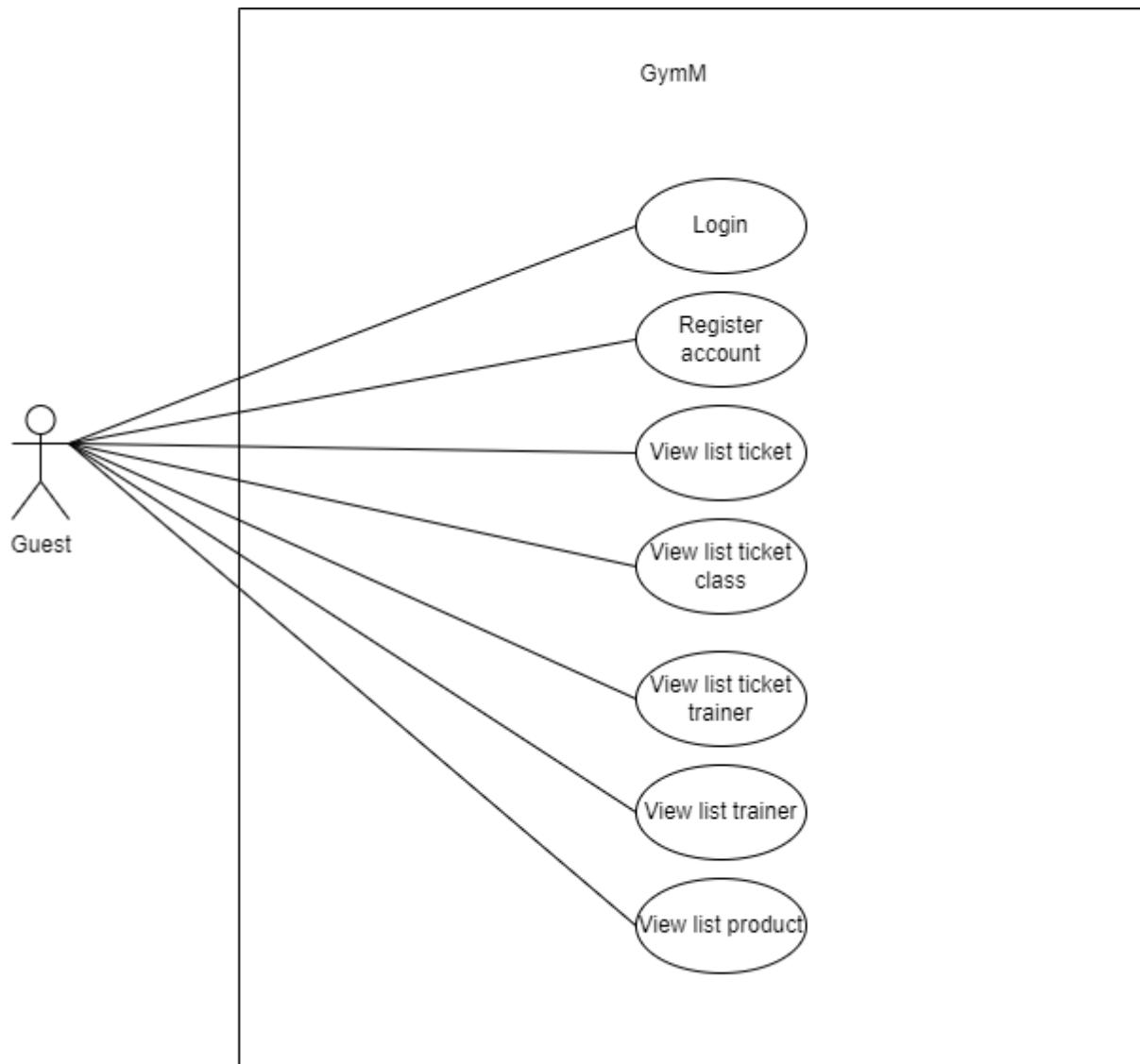


Figure 13. Guest use case

c. Staff

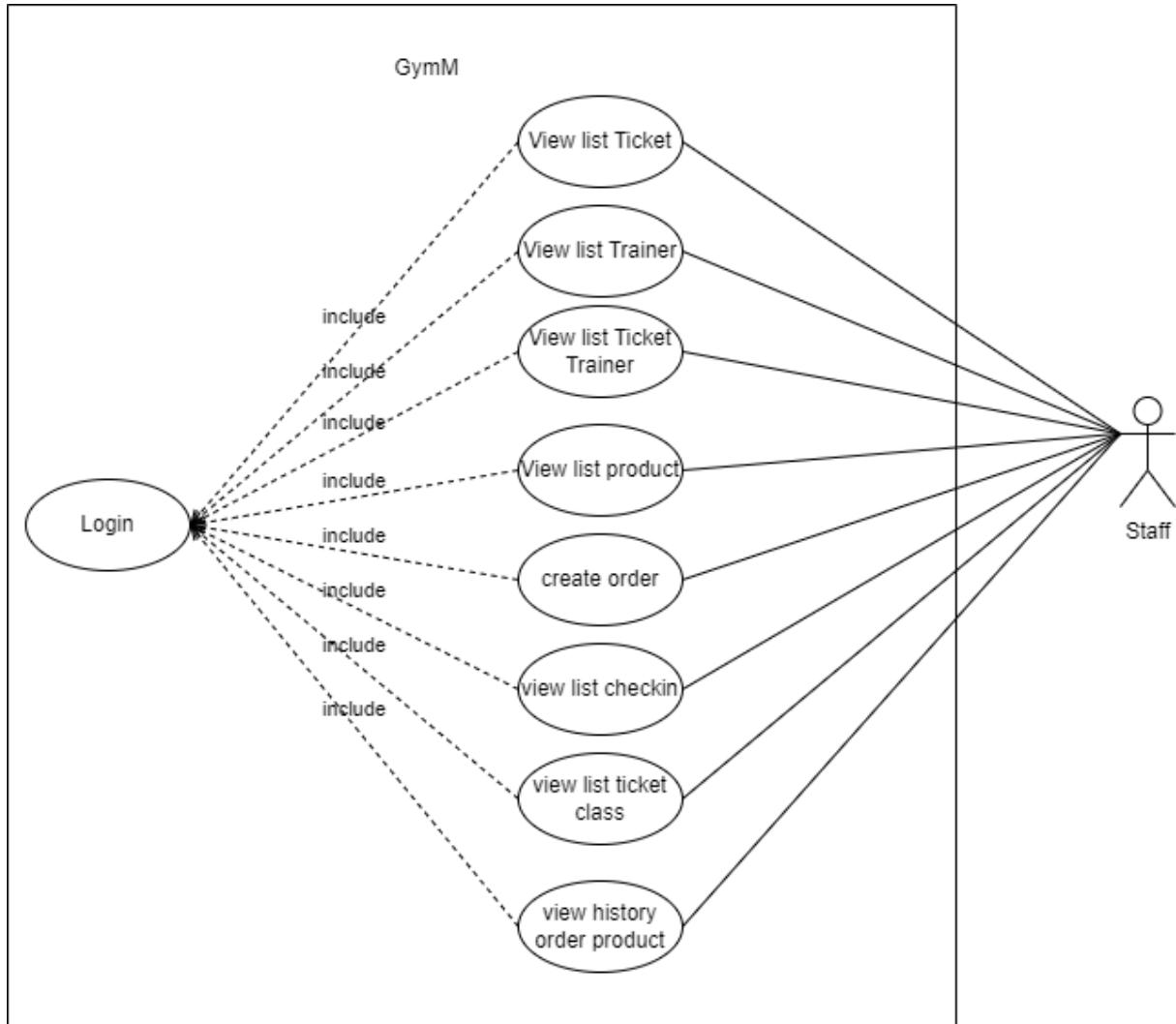


Figure 14. Staff use case

d. Trainer

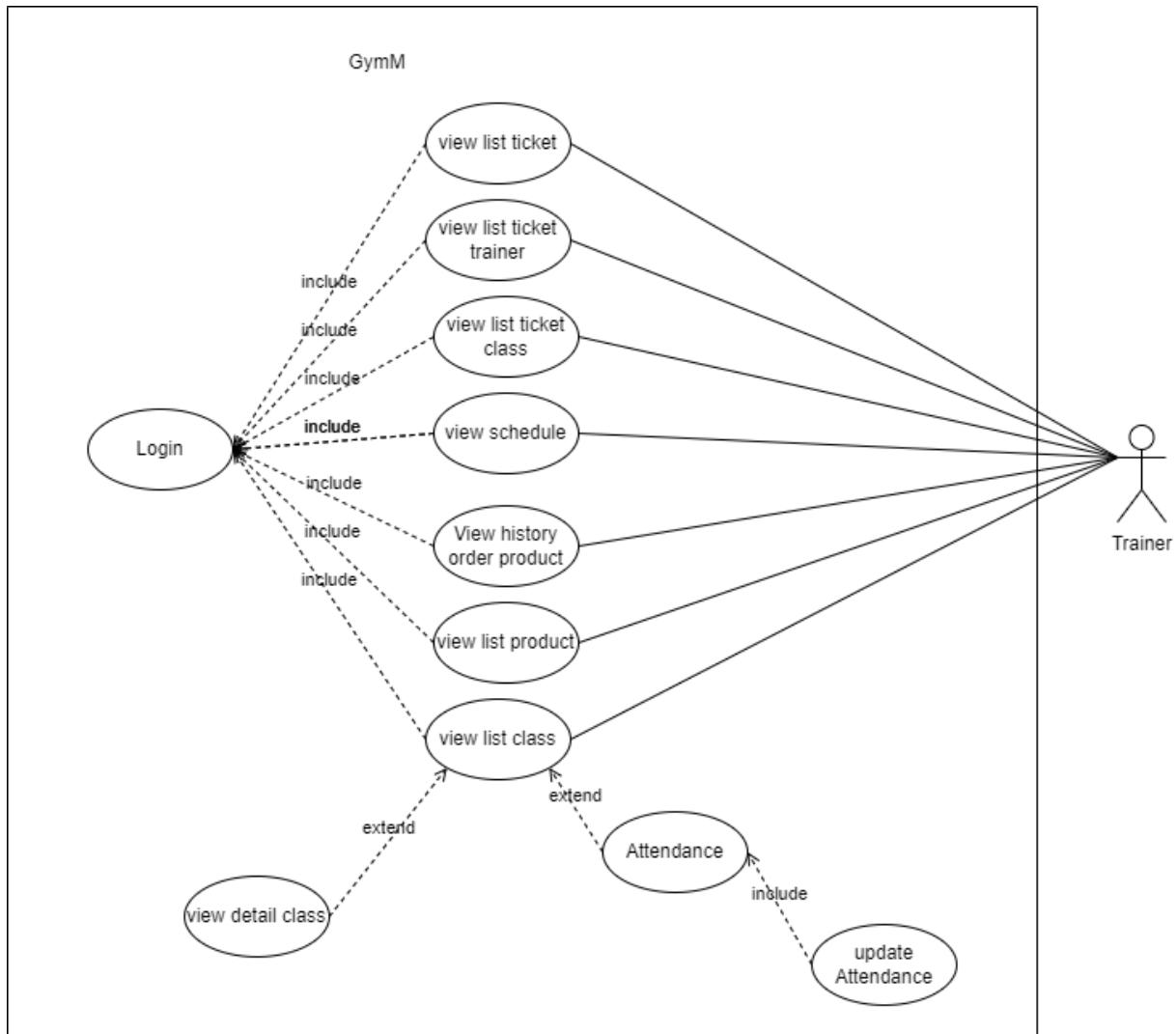


Figure 15. Trainer use case

e. Customer

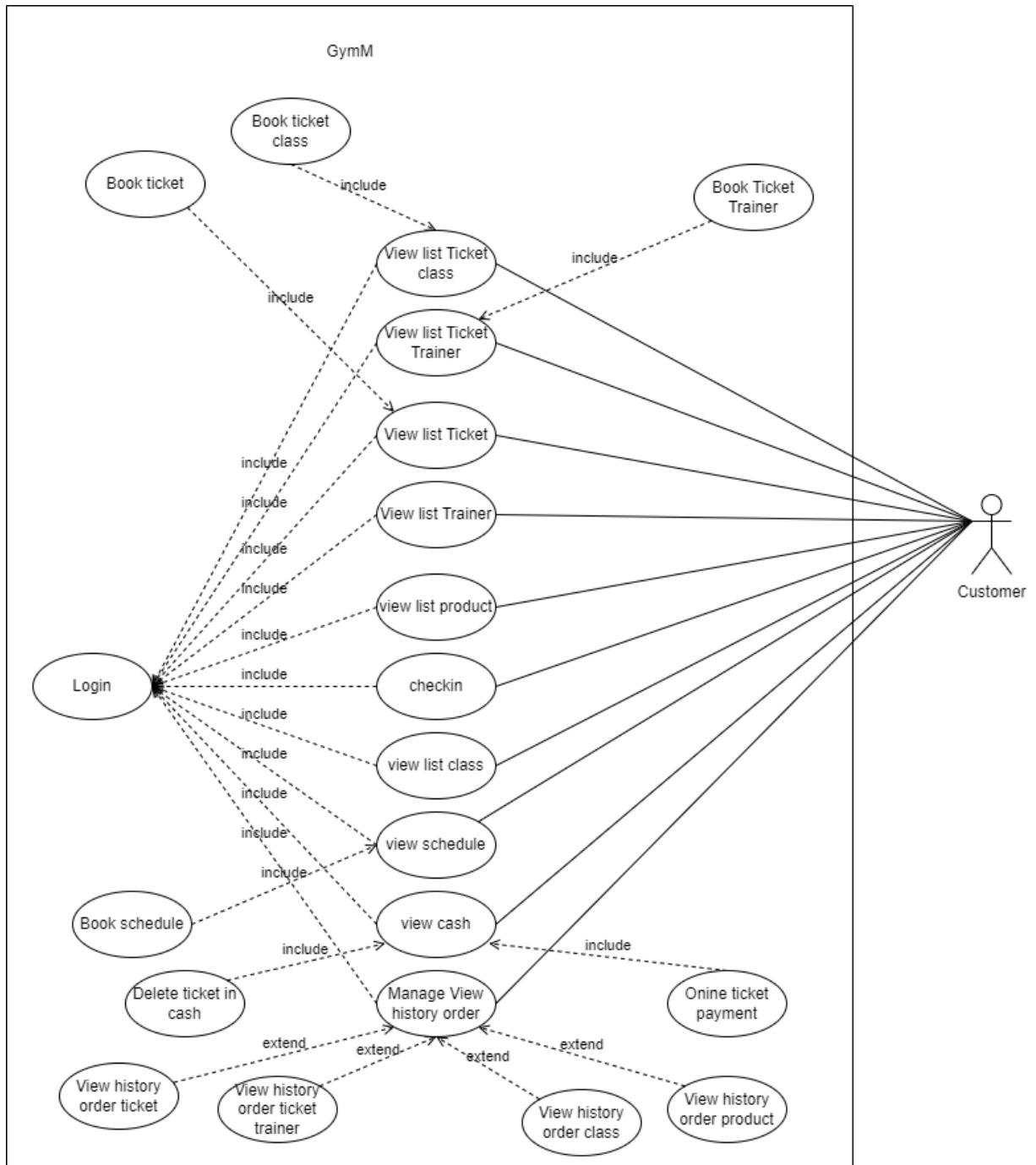


Figure 16. Customer use case

### *2.2.2 Use Case List*

<i>ID</i>	<i>Use Case</i>	<i>Actors</i>	<i>Use Case Description</i>
UC-1	Login	Common	Users login to the system by Email and Passwords and press the “Đăng nhập” button.
UC-2	LogOut	Common	User logout from the system then click to “Đăng xuất”.
UC-3	Register	Common	Guests register a new account by entering all required fields and clicking “Đăng ký”.
UC-4	Change Password	Common	Users can change old passwords to new passwords to access the system. They entering all required fields and clicking “Đổi mật khẩu”.
UC-5	Forgot Password	Customer, trainer, Staff	Users can reset old passwords to new passwords to access the system. They entering all required fields and clicking “Nhận mật khẩu mới”.
UC-6	View Profile	Common	User view profile.
UC-7	Update Profile	Common	Users can update their profile by filling in the fields that the user is allowed to change.
UC-8	View List Account	Admin	Admin can see the list of user account by clicking on “Người dùng hệ thống”.

<i>ID</i>	<i>Use Case</i>	<i>Actors</i>	<i>Use Case Description</i>
UC-9	Add Account	Admin	Admin creates new User Account by click “Thêm mới” and filling in the required fields.
UC-10	View detail Account	Admin	Admin can view the user's account details by clicking on the right eye icon in the “View List Account”.
UC-11	Delete Account	Admin	Admin can delete the account of a customer.
UC-12	View list Ticket	Admin	Users can see the list of ticket by clicking on “Vé vào cửa”
UC-13	Add ticket	Admin	Admin creates new Ticket by click “Thêm mới” and filling in the required fields.
UC-14	View detail ticket	Admin	Admin can view the ticket details by clicking on the right eye icon in the “View List Account”.
UC-15	Update ticket	Admin	The admin can update the ticket by filling in the fields that the user wants to change.
UC-16	Delete ticket	Admin	Admin can delete the ticket on the right trash icon in the “View list Ticket”.
UC-17	View list ticket Trainer	Admin	Users can see the list of ticket by clicking on “Vé tập cùng huấn luyện viên”

<i>ID</i>	<i>Use Case</i>	<i>Actors</i>	<i>Use Case Description</i>
UC-18	Add ticket trainer	Admin	Admin creates new Ticket Trainer by click “Thêm mới” and filling in the required fields.
UC-19	View detail ticket trainer	Admin, Customer, Staff	Admin can view the ticket trainer details by clicking on the right eye icon in the “View List ticket trainer”.
UC-20	Update Ticket trainer	Admin	The admin can update the ticket trainer by filling in the fields that the user wants to change.
UC-21	Delete Ticket trainer	Admin	Admin can delete the ticket trainer on the right trash icon in the “View list Ticket trainer”.
UC-22	View list ticket Class	Admin	Users can see the list of ticket by clicking on “Vé tập cùng lớp”
UC-23	Add ticket class	Admin	Admin creates new Ticket class by click “Thêm mới” and filling in the required fields.
UC-24	View detail ticket class	Admin	Admin can view the ticket trainer details by clicking on the right eye icon in the “View List ticket class”.
UC-25	Update Ticket class	Admin	The admin can update the ticket class by filling in the fields that the user wants to change.

<i>ID</i>	<i>Use Case</i>	<i>Actors</i>	<i>Use Case Description</i>
UC-26	Delete Ticket class	Admin	Admin can delete the ticket class on the right trash icon in the “View list Ticket class”.
UC-27	View list class	Common	Users can see the list of class by clicking on “Lớp học”
UC-28	Add Class	Admin	Admin creates new class by click “Thêm mới” and filling in the required fields.
UC-29	View Detail Class	Admin	Admin can view the class details by clicking on the right eye icon in the “View list class”
UC-30	Delete Class	Admin	Admin can delete the ticket class on the right trash icon in the “View list class”.
UC-31	View order cash-book	Admin	Admin can view list order cash-book of product
UC-32	View ticket cash book	Admin	Admin can view list order cash-book of ticket
UC-33	View list Product	Common	All user can view list product
UC-34	Add product	Admin	Admin creates new product by click “Thêm mới” and filling in the required fields.

<i>ID</i>	<i>Use Case</i>	<i>Actors</i>	<i>Use Case Description</i>
UC-35	Update Product	Admin	Admin can update the product by filling in the fields that the user wants to change.
UC-36	Delete Product	Admin	Admin can delete products on the right trash icon in the "View list product".
UC-37	View History Order Product	Customer, Admin, Staff, Trainer	Customer, Admin, Staff can view all orders by product of the customer.
UC-38	View History Order Ticket	Customer, Admin	Customer, Admin can view all orders by ticket of the customer.
UC-39	View History Order Ticket Trainer	Customer, Admin	Customer, Admin can view all orders by the Ticket Trainer of the customer.
UC-40	View History Order Class	Customer, Admin	Customer, Admin can view all orders by Ticket Class of the customer.
UC-41	Create bill	Staff	staff can create orders to sell the store's products
UC-42	View list check-in	Admin/Staff	User can view list check-in of customer
UC-43	View schedule	Admin/Staff/Customer/Trainer	Users can view schedules of Trainer.
UC-44	Add Attendance	Trainer	Trainer can attendance class

<i>ID</i>	<i>Use Case</i>	<i>Actors</i>	<i>Use Case Description</i>
UC-45	View Attendance	Trainer,Admin	Customers and Trainer can view schedules.
UC-46	Update Attendance	Trainer	Trainer can update attendance class
UC-47	Booking ticket class	Customer	Customer can add ticket class to cart
UC-48	View List trainer	Admin, Staff, Customer	Admin, Staff, Customer can view list trainer
UC-49	Booking ticket	Customer	Customer can add ticket to cart
UC-50	Booking Ticket Trainer	Customer	Customer can add ticket trainer to cart
UC-51	Check-in	Customer	Customer can check-in when clicking button "Check-in"
UC-52	Booking schedule	Customer	Customer can use ticket to booking schedule
UC-53	View Cart	Customer	Customers can view the list of tickets their order.
UC-54	Online Payment	Customer	Customers can pay for tickets online.
UC-55	Delete Ticket In Cart	Customer	Customers can delete list order tickets in "View Cart".
UC-56	View Detail Product	Admin	Admin can view the product details by clicking on the right eye icon in the "View list product"

## 2.2.3 Description

### 2.2.3.1 Login

Table 1. Login use case specification

<b>Use Case ID</b>	UC-1		
<b>Use Case Name</b>	<b>Login</b>		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	19/02/2023
<b>Primary Actor:</b>	GymM User	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users login to the system by Email and Passwords and press the “Đăng nhập” button.		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-1.1. User has a GymM account.		
<b>Post-Condition:</b>	POST-1.1. User logged into GymM successfully. POST-1.2. The system displays the Home Page or on the role.		
<b>Normal Flow:</b>	1. User access website. 2. System displays Home page. 3. User presse login button. 4. The system displays the Login page. 5. The system displays the login form as a screen. 6. User enters Email and password in login form. 7. User presse “Login” button. 8. The system checks the email and password information entered by the user. 9. The system redirects to the Home page if the role is Customer 9.1 Admin to the dashboard.		
<b>Alternative Flow:</b>	1. User is on the register page click login		
<b>Exceptions:</b>	1-E1. Email/Password is not correct: GymM displays an error message MSG-3. 1-E2. Email is empty: GymM displays an error message MSG-6. 1-E3. Password is empty: GymM displays an error message MSG-7. 1-E4: The account is block: GymM displays an error message MSG-2. 1-E5. Incorrect password. GymM displays an error message MSG-19. 1-E6. Email is invalid GymM displays an error message MSG-4		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01, BR-02, BR-03, BR-06		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

### 2.2.3.2 Log out

Table 2. Logout use case specification

<b>Use Case ID</b>	UC-2		
<b>Use Case Name</b>	Logout		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	19/02/2023
<b>Primary Actor:</b>	GymM User	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	User logout from the system		

<b>Trigger:</b>	N/A
<b>Preconditions:</b>	PRE-2.1. User logged in account.
<b>Post-Condition:</b>	POST-2.1. User logout successfully
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. The user has successfully logged in and the user is on the website.</li> <li>2. User clicks on the avatar icon on the top right of the navigation bar.</li> <li>3. User clicks on the “Đăng xuất” button.</li> <li>4. The system removes the token then displays the Login page.</li> </ol>
<b>Alternative Flow:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Priority:</b>	High
<b>Frequency of Use:</b>	High
<b>Business Rules:</b>	BR-31, BR-32
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

### 2.2.3.3 Register

Table 3. Register use case specification

<b>Use Case ID</b>	UC-3		
<b>Use Case Name</b>	Register		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	19/02/2023
<b>Primary Actor:</b>	Guest	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Guest register a new GymM account to sign into GymM.		
<b>Trigger:</b>	Guest wants to register an account as a Customer		
<b>Preconditions:</b>	PRE-3.1. User does not have an account.		
<b>Post-Condition:</b>	POST-3.1. User has successfully registered for GymM. POST-3.2. The system displays the "Login" page.		
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. The user is on the home page.</li> <li>2. The user presses the "tạo một tài khoản" button on the right side of the navigation bar.</li> <li>3. System displays Register page.</li> <li>4. System displays the Register form as a screen.</li> <li>3. User enters "name" and "Email" and "Phone" and "password" and "re-enter password".</li> <li>4. Users press the "Register" button.</li> <li>5. The system checks the input information which the user entered.</li> <li>6. Display successfully registered message.</li> <li>7. The system redirects to "Login".</li> </ol>		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	3-E1. Email available: GymM displays the error message MSG-9. 3-E2. Phone is not valid: GymM displays the error message MSG-10. 3-E3. Password must be more than 8 characters: GymM displays the error message MSG-11. 3-E4. Password must contain at least 1 lowercase letter, 1 uppercase letter, 1 number, and 1 special character: GymM displays the error message MSG-12. 3-E5. The re-enter password does not match with the password: GymM displays the error message MSG-13. 3-E6. Empty input name: GymM displays the error message MSG-14.		

	<p>3-E7. Empty input Email: GymM displays the error message MSG-6.</p> <p>3-E8. Empty input Phone: GymM displays the error message MSG-15.</p> <p>3-E9. Empty input password: GymM displays the error message MSG-7.</p> <p>3-E10. Empty input re-enter password: GymM displays the error message MSG-16.</p> <p>3-E11. Name is invalid GymM displays the error message MSG-24.</p> <p>3-E11. Email is invalid GymM displays the error message MSG-25.</p>
<b>Priority:</b>	High
<b>Frequency of Use:</b>	High
<b>Business Rules:</b>	BR-02, BR-03, BR-04, BR-06, BR-07, BR-08, BR-09, BR-10, BR-11, BR-12, BR-13, BR-14,
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.3.3.4 Change Password

Table 4. Change Password use case specification

<b>Use Case ID</b>	UC-4		
<b>Use Case Name</b>	Change Password		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	19/02/2023
<b>Primary Actor:</b>	GymM User	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users change passwords.		
<b>Trigger:</b>	User wants to change the current password to a new password.		
<b>Preconditions:</b>	PRE-4.1. User is logged into GymM.		
<b>Post-Condition:</b>	POST-4.1. User changed the password successfully. POST-4.1. The user can log in with the new password.		
<b>Normal Flow:</b>	1. The user clicks on the avatar icon on the top right of the navigation bar. 3. The user clicks on the “Change Password” button. 4. The user enters the current password, the new password, and re-enters the new password. 5. The user clicks on the “Xác nhận” button. 6. The system checks valid passwords which users entered. 7. The system displays the message "Bạn đã thay đổi mật khẩu thành công".		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	<p>5-E1. Password is empty: GymM displays the message MSG-7.</p> <p>5-E2. Password is invalid: GymM displays the message MSG-19.</p> <p>5-E3. New password is empty: GymM displays the message MSG-20.</p> <p>5-E4. Password must be more than 8 characters: GymM displays the error message MSG-11.</p> <p>5-E5. Password must contain at least 1 lowercase letter, 1 uppercase letter, 1 number, and 1 special character: GymM displays the error message MSG-12.</p> <p>5-E6. Confirmed password is empty: The system displays the message MSG-21.</p>		

	5-E7. The re-enter password does not match with the password: The system displays message MSG-13.
<b>Priority:</b>	Medium
<b>Frequency of Use:</b>	Medium
<b>Business Rules:</b>	BR-01,BR-06,BR-07,BR-08,BR-11,BR-12
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.5 Forgot Password

Table 5. Forgot Password use case specification

<b>Use Case ID</b>	UC-5		
<b>Use Case Name</b>	Forgot Password		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	19/02/2023
<b>Primary Actor:</b>	GymM User	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Reset user's password via Email.		
<b>Trigger:</b>	User forgot the password and wants to reset the password.		
<b>Preconditions:</b>	PRE-5.1. User has a GymM account. PRE-5.2. User is on the login page.		
<b>Post-Condition:</b>	POST-5.1. The system resets the user's password. POST-5.2. The system sends reset passwords to the user's email.		
<b>Normal Flow:</b>	1. The user clicks on “Quên mật khẩu”. 2. System directs to the Forget Password page. 3. The user enters an email in the “Nhập email” text box. 4. The user clicks on the “Gửi về email” button. 5. The system checks the email that the user entered. 6. The system resets the user password and sends a new password to the email that user inputted. 7. The user receives a new password from the inputted email. 8. the system directs to the login page. 9. The user uses the new password that the system sent to log in.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	5-E1. Empty input Email: GymM displays an error message MSG-6. 5-E2. Account email and entered email do not match: GymM displays an error message MSG-22.		
<b>Priority:</b>	Medium		
<b>Frequency of Use:</b>	Medium		
<b>Business Rules:</b>	BR-01, BR-02,BR-03		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.6 View profile

Table 6. View Profile use case specification

<b>Use Case ID</b>	UC-6		
<b>Use Case Name</b>	View profile		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	19/02/2023
<b>Primary Actor:</b>	GymM User	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	User's view profile.		
<b>Trigger:</b>	Users want to view the user's own profile.		
<b>Preconditions:</b>	PRE-6.1. Users are signed into GymM.		

<b>Post-Condition:</b>	POST-6.1. The system displays the "View Profile" page with the user's information.
<b>Normal Flow:</b>	1. The user clicks on the avatar icon on the top right of the navigation bar. 2. The user clicks on the "View Profile" button. 3. System displays the user profile.
<b>Alternative Flow:</b>	N/A
<b>Exceptions:</b>	6-E1. wrong information displayed GymM displays the error message MSG-00. 6-E2. display wrong format GymM displays the error message MSG-00.
<b>Priority:</b>	Medium
<b>Frequency of Use:</b>	Medium
<b>Business Rules:</b>	BR-01
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.7 Update profile

Table 7. Update Profile use case specification

<b>Use Case ID</b>	UC-7		
<b>Use Case Name</b>	Update profile		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	20/02/2023
<b>Primary Actor:</b>	GymM User	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users update their profile after log-in.		
<b>Trigger:</b>	Users with personal information want to update?		
<b>Preconditions:</b>	PRE-7.1. Users are signed into GymM. PRE-7.2. User is in the viewing profile.		
<b>Post-Condition:</b>	POST-7.1. User edit profile successfully.		
<b>Normal Flow:</b>	1. The user clicks on the edit icon to edit the user's information. 2. The system displays the user's information to update the profile. 3. The user enters the information that wants to update in name, Phone, Address, age. 4. The user clicks on the "Cập nhật" button. 5. The system checks the valid information which the user entered. 6. The system updates new information which the user entered. 7. The system displays the message "Update successfully": System displays message MSG-00 to confirm. 8. the system directs to the "View Profile" page.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	7-E1. Empty input Phone GymM displays the error message MSG-15. 7-E2. Name is empty GymM displays the error message MSG-23. 7-E3. Name is invalid GymM displays the error message MSG-24. 7-E4. Age is empty GymM displays the error message MSG-26. 7-E5. Address is empty GymM displays the error message MSG-27.		
<b>Priority:</b>	Medium		
<b>Frequency of Use:</b>	Medium		

<b>Business Rules:</b>	BR-01,BR-09,BR-10,BR-13,BR-14,BR-15,BR-16		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.8 View list user

Table 8. View list User use case specification

<b>Use Case ID</b>	UC-8		
<b>Use Case Name</b>	View list trainer		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	24/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin view the list user.		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-8.1. User is logged into GymM.		
<b>Post-Condition:</b>	POST-8.1. The system displays the list of users.		
<b>Normal Flow:</b>	1. The user clicks on the "Danh sách người dùng hệ thống" of the navigation bar. 2. The system displays list User.		
<b>Alternative Flow:</b>	1. User search on search input on navigation bar.		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.9 Add Account

Table 9. Add Account use case specification

<b>Use Case ID</b>	UC-9		
<b>Use Case Name</b>	Add Account		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	20/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin create new a account as Staff or Trainer		
<b>Trigger:</b>	Have a new Staff or a new Trainer		
<b>Preconditions:</b>	PRE-9.1. Staff or Trainer do not have an account. PRE-9.2. Admin is signed into GymM. PRE-9.3. Admin is on the add account page.		
<b>Post-Condition:</b>	POST-9.1. System creates a new account.		
<b>Normal Flow:</b>	1. Admin clicks button "Thêm mới" 2. Admin enters the Name, Email, Password, age, phone, address, selects on the checkbox gender. 3. Admin clicks on the "Save" button. 4. The system checks the valid information. 6. The system creates a new Staff or Trainer that the Admin created. 7. The system displays the message "Bạn đã thêm tài khoản thành công". 8. System add new Staff or Trainer to list all Accounts.		
<b>Alternative Flow:</b>	1. User clicks button "Thêm mới" on the "danh sách nhân viên" or "danh sách huấn luyện viên".		
<b>Exceptions:</b>	9-E1. Password is empty: GymM displays an error message MSG-7. 9-E2. Email already exists: GymM displays an error message MSG-9.		

	<p>9-E3. Password must be more than 8 characters: GymM displays the error message MSG-11.</p> <p>9-E4. Password must contain at least 1 lowercase letter, 1 uppercase letter, 1 number, and 1 special character: GymM displays the error message MSG-12.</p> <p>8-E5. Phone is empty: GymM displays an error message MSG-15.</p> <p>8-E6. Name is empty: GymM displays an error message MSG-22.</p> <p>8-E7. Name is invalid: GymM displays an error message MSG-23.</p> <p>8-E8. Email is invalid: GymM displays an error message MSG-25.</p> <p>8-E9. Age is empty: GymM displays an error message MSG-26.</p> <p>8-E10. Address is empty: GymM displays an error message MSG-27.</p> <p>8-E11. Email is empty: GymM displays an error message MSG-6.</p>
<b>Priority:</b>	High
<b>Frequency of Use:</b>	Medium
<b>Business Rules:</b>	BR-01, BR-02, BR-03, BR-04, BR-05, BR-06, BR-07, BR-08, BR-09, BR-10,, BR-13, BR-14, BR-15, BR-16
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.10 View Detail Account

Table 10. View Detail Account use case specification

<b>Use Case ID</b>	UC-10		
<b>Use Case Name</b>	View Detail Account		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	23/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin View Details of a Account		
<b>Trigger:</b>	Admin wants to view details of an Account.		
<b>Preconditions:</b>	PRE-10.1. Admin is signed into GymM. PRE-10.2. Admin is on the "Danh sách Account" page.		
<b>Post-Condition:</b>	POST-10.1. The system displays the "View Details Account " page with Account information.		
<b>Normal Flow:</b>	1. Admin click on the eye icon to the right of the record in the "Danh sách ticket" page. 2. The system redirects to the "view details account" page. 3. The system displays the account's detailed information form. 4. The system displays the details of the account.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	Medium		
<b>Frequency of Use:</b>	Medium		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

### 2.2.3.11 Delete account

Table 11. Delete account use case specification

<b>Use Case ID</b>	UC-11		
<b>Use Case Name</b>	Delete account		
<b>Create By:</b>	HieuHM	<b>Create Date:</b>	20/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin want to deletes a customer account from the system		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-11.1. Admin is signed into GymM. PRE-11.2. Admin is on the “Danh sách Khách hàng” page.		
<b>Post-Condition:</b>	POST-11.1. System deletes a customer account.		
<b>Normal Flow:</b>	1. User clicks the icon “Thùng rác” of material needed to delete on the “Danh sách khách hàng” page. 2. System displays message "Bạn có muốn xóa không" to confirm: System displays message MSG-40 to confirm. 3. User clicks on the “Xác nhận” button to confirm or the “Hủy” button to cancel action delete. 4. System deletes account if Admin confirms to delete. 5. The system redirects to the "Danh sách khách hàng" page.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	Medium		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

### 2.2.3.12 View list ticket

Table 12. View list Ticket use case specification

<b>Use Case ID</b>	UC-12		
<b>Use Case Name</b>	View list ticket		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	24/02/2023
<b>Primary Actor:</b>	Staff, Customer	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users view the list ticket.		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-12.1. User is logged into GymM.		
<b>Post-Condition:</b>	POST-12.1. The system displays the list of ticket.		
<b>Normal Flow:</b>	1. The user clicks on the " ticket " of the navigation bar. 2. The system display list ticket.		
<b>Alternative Flow:</b>	1. User search on search input on navigation bar.		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		

<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.13 Add Ticket

Table 13. Add Ticket use case specification

<b>Use Case ID</b>	UC-13		
<b>Use Case Name</b>	Add Ticket		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	20/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	admin create new Ticket		
<b>Trigger:</b>	Have a new Ticket		
<b>Preconditions:</b>	PRE-13.1. Admin is signed into GymM. PRE-13.2. Admin is on the add Ticket page.		
<b>Post-Condition:</b>	POST-13.1. System creates a new Ticket.		
<b>Normal Flow:</b>	1. Admin clicks button “Thêm mới” 2. Admin enters the Type, Price, Ticket Name, Total_days. 3. Admin clicks on the “Save” button. 4. The system checks the valid information. 6. The system creates a new Ticket that the Admin created. 7. The system displays the message "Bạn đã thêm mới Ticket thành công". 8. System add new Ticket to list all Ticket.		
<b>Alternative Flow:</b>	1. User clicks button “Thêm mới” on the “danh sách Ticket”		
<b>Exceptions:</b>	13-E1. Type empty: GymM displays an error message MSG-28. 13-E2. Type already exists: GymM displays an error message MSG-29. 13-E3. Price empty: GymM displays an error message MSG-30. 13-E4. Total days empty: GymM displays an error message MSG-33. 13-E5. Total days is invalid: GymM displays an error message MSG-34. 13-E6. Price is invalid: GymM displays an error message MSG-35.		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	Medium		
<b>Business Rules:</b>	BR-01, BR-17, BR-18, BR-19, BR-20, BR-21, BR-24		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.14 View Details Ticket

Table 14. View Detail Ticket use case specification

<b>Use Case ID</b>	UC-14
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<b>Use Case Name</b>	View Details Ticket		
<b>Create By:</b>	NamNC, HieuHM	<b>Create Date:</b>	23/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin View Details of a Ticket		
<b>Trigger:</b>	Admin wants to view details of a Ticket.		
<b>Preconditions:</b>	PRE-14.1. Admin is signed into GymM. PRE-14.2. Admin is on the "Danh sách Ticket" page.		
<b>Post-Condition:</b>	POST-14.1. The system displays the "View Details Ticket" page with Ticket information.		
<b>Normal Flow:</b>	1. Admin click on the eye icon to the right of the record in the "Danh sách ticket" page. 2. The system redirects to the "view details ticket" page. 3. The system displays the ticket's detailed information form. 4. The system displays the details of the Ticket.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	14-E1. display wrong format GymM displays the error message MSG-36.		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	Medium		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.15 Update ticket

Table 15. Update Ticket use case specification

<b>Use Case ID</b>	UC-15		
<b>Use Case Name</b>	Update ticket		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	22/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin update Ticket.		
<b>Trigger:</b>	Admin has information on the Ticket you want to update?		
<b>Preconditions:</b>	PRE-15.1. Admin is signed into GymM. PRE-15.2. Admin is on the "Danh sách Ticket" page.		
<b>Post-Condition:</b>	POST-15.1. User edit Ticket successfully.		
<b>Normal Flow:</b>	1. The user clicks on the edit icon to edit the user's information on the "Danh sách Ticket" page. 2. The system displays form information to update the Ticket. 3. The user enters the information that wants to update in Type, Price, Note, Status, Total_days. 4. The user clicks on the "Lưu" button. 5. The system checks the valid information which the Admin entered. 6. The system updates new information which the Admin entered. 7. The system displays the message "Update successfully": System displays message MSG-41 to confirm. 8. the system directs to the "View detail Ticket" page.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	15-E1. Type empty: GymM displays an error message MSG-28.		

	<p>15-E2. Type already exists: GymM displays an error message MSG-29.</p> <p>15-E3. Price empty: GymM displays an error message MSG-30.</p> <p>15-E4. Note empty: GymM displays an error message MSG-31.</p> <p>15-E5. Total days empty: GymM displays an error message MSG-33.</p> <p>15-E6. Total days is invalid: GymM displays an error message MSG-34.</p> <p>15-E7. Price is invalid: GymM displays an error message MSG-35.</p>
<b>Priority:</b>	Medium
<b>Frequency of Use:</b>	Medium
<b>Business Rules:</b>	BR-01,BR-17,BR-18,BR-19,BR-20,BR-21,BR-24,BR-22
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.16 Delete Ticket

Table 16. Delete Ticket use case specification

<b>Use Case ID</b>	UC-16		
<b>Use Case Name</b>	Delete Ticket		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	20/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin want to deletes a ticket from the system		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-16.1. Admin is signed into GymM. PRE-16.2. Admin is on the “Danh sách Ticket” page.		
<b>Post-Condition:</b>	POST-16.1. System deletes a Ticket.		
<b>Normal Flow:</b>	1. User clicks the icon “Thùng rác” of material needed to delete on the “Danh sách Ticket” page. 2. System displays message "Bạn có muốn xóa không" to confirm: System displays message MSG-40 to confirm. 3. User clicks on the “Xác nhận” button to confirm or the “Hủy” button to cancel action delete. 4. System deletes Ticket if Admin confirms to delete. 5. The system redirects to the "Danh sách ticket" page.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	Medium		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.17 View list Ticket Trainer

Table 17. View list Ticket Trainer use case specification

<b>Use Case ID</b>	UC-17		
<b>Use Case Name</b>	View list Ticket Trainer		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	27/02/2023
<b>Primary Actor:</b>	Staff, Customer	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users view the list Ticket Trainer.		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-17.1. User is logged into GymM.		
<b>Post-Condition:</b>	POST-17.1. The system displays the list of Ticket Trainer.		
<b>Normal Flow:</b>	1. The user clicks on the "Ticket Trainer" of the navigation bar. 2. The system display list Ticket Trainer.		
<b>Alternative Flow:</b>	1. User search on search input on navigation bar.		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.18 Add Ticket Trainer

Table 18. Add Ticket Trainer use case specification

<b>Use Case ID</b>	UC-18		
<b>Use Case Name</b>	Add Ticket Trainer		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	20/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	admin create new Ticket Trainer		
<b>Trigger:</b>	Have a new Ticket Trainer		
<b>Preconditions:</b>	PRE-18.1. Admin is signed into GymM. PRE-18.2. Admin is on the add Ticket Trainer page.		
<b>Post-Condition:</b>	POST-18.1. System creates a new Ticket Trainer.		
<b>Normal Flow:</b>	1. Admin clicks button "Thêm mới" 2. Admin enters the Type, Price, Ticket Name, Total_days. 3. Admin clicks on the "Save" button. 4. The system checks the valid information. 6. The system creates a new Ticket Trainer that the Admin created. 7. The system displays the message "Bạn đã thêm mới Ticket Trainer thành công". 8. System add new Ticket Trainer to list all Ticket Trainer.		
<b>Alternative Flow:</b>	1. User clicks button "Thêm mới" on the "danh sách Ticket Trainer"		
<b>Exceptions:</b>	18-E1. Type empty: GymM displays an error message MSG-28. 18-E2. Type already exists: GymM displays an error message MSG-29. 18-E3. Price empty: GymM displays an error message MSG-30. 18-E4. Note empty: GymM displays an error message MSG-31. 18-E5. Total days empty: GymM displays an error message MSG-33.		

	18-E6. Total days is invalid: GymM displays an error message MSG-34. 18-E7. Price is invalid: GymM displays an error message MSG-35.
<b>Priority:</b>	High
<b>Frequency of Use:</b>	Medium
<b>Business Rules:</b>	BR-01, BR-17, BR-18, BR-19, BR-20, BR-21, BR-22, BR-24
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.19 View Details Ticket Trainer

Table 19. View Detail Ticket Trainer use case specification

<b>Use Case ID</b>	UC-19		
<b>Use Case Name</b>	View Details Ticket Trainer		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	23/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin View Details of a Ticket Trainer		
<b>Trigger:</b>	Admin want to view detail of a Ticket Trainer.		
<b>Preconditions:</b>	PRE-19.1. Admin is signed into GymM. PRE-19.2. Admin is on the "Danh sách Ticket Trainer" page.		
<b>Post-Condition:</b>	POST-19.1. The system displays the "View Details Ticket Trainer" page with Ticket Trainer information.		
<b>Normal Flow:</b>	1. Admin click on the eye icon to the right of the record in the "Danh sách Ticket Trainer" page. 2. The system redirects to the "view detail Ticket Trainer" page. 3. The system displays the Ticket Trainer detailed information form. 4. The system displays the details of the Ticket Trainer.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	19-E1. display wrong format GymM displays the error message MSG-36.		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	Medium		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.20 Update Ticket Trainer

Table 20. Update Ticket Trainer use case specification

<b>Use Case ID</b>	UC-20		
<b>Use Case Name</b>	Update Ticket Trainer		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	20/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A

<b>Description:</b>	Admin update Ticket Trainer.
<b>Trigger:</b>	Admin has information on the Ticket Trainer you want to update?
<b>Preconditions:</b>	PRE-20.1. Admin is signed into GymM. PRE-20.2. Admin is on the “Danh sách Ticket Trainer” page.
<b>Post-Condition:</b>	POST-20.1. User edit Ticket Trainer successfully.
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. The user clicks on the edit icon to edit the user's information on the “Danh sách Ticket Trainer” page.</li> <li>2. The system displays form information to update the Ticket Trainer.</li> <li>3. The user enters the information that wants to update in Type, Price, Note, Status, Total_days.</li> <li>4. The user clicks on the “Lưu” button.</li> <li>5. The system checks the valid information which the Admin entered.</li> <li>6. The system updates new information which the Admin entered.</li> <li>7. The system displays the message "Update successfully": System displays message MSG-41 to confirm.</li> <li>8. the system directs to the "View detail Ticket Trainer " page.</li> </ol>
<b>Alternative Flow:</b>	<ol style="list-style-type: none"> <li>1. The user clicks on the edit icon to edit the user's information on the “View detail Ticket Trainer” page.</li> </ol>
<b>Exceptions:</b>	<p>20-E1. Type empty: GymM displays an error message MSG-28.</p> <p>20-E2. Type already exists: GymM displays an error message MSG-29.</p> <p>20-E3. Price empty: GymM displays an error message MSG-30.</p> <p>20-E4. Note empty: GymM displays an error message MSG-31.</p> <p>20-E5. Total days empty: GymM displays an error message MSG-33.</p> <p>20-E6. Total days is invalid: GymM displays an error message MSG-34.</p> <p>20-E7. Price is invalid: GymM displays an error message MSG-35.</p>
<b>Priority:</b>	Medium
<b>Frequency of Use:</b>	Medium
<b>Business Rules:</b>	BR-01,BR-17,BR-18,BR-19,BR-20,BR-21,BR-22,BR-24
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.21 Delete Ticket Trainer

Table 21. Delete Ticket Trainer use case specification

<b>Use Case ID</b>	UC-21		
<b>Use Case Name</b>	Delete Ticket Trainer		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	20/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A

<b>Description:</b>	Admin want to deletes a Ticket Trainer from the system
<b>Trigger:</b>	N/A
<b>Preconditions:</b>	PRE-21.1. Admin is signed into GymM. PRE-21.2. Admin is on the “Danh sách Ticket Trainer” page.
<b>Post-Condition:</b>	POST-21.1. System deletes a Ticket Trainer.
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User clicks the icon “Thùng rác” of material needed to delete on the “Danh sách Ticket Trainer” page.</li> <li>2. System displays message "Bạn có muốn xóa không" to confirm: System displays message MSG-40 to confirm.</li> <li>3. User clicks on the “Xác nhận” button to confirm or the “Hủy” button to cancel action delete.</li> <li>4. System deletes Ticket Trainer if Admin confirms to delete.</li> <li>5. The system redirects to the "Danh sách Ticket Trainer " page.</li> </ol>
<b>Alternative Flow:</b>	N/A
<b>Exceptions:</b>	
<b>Priority:</b>	High
<b>Frequency of Use:</b>	Medium
<b>Business Rules:</b>	BR-01
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.22 View list Ticket class

Table 22. View list Ticket Class use case specification

<b>Use Case ID</b>	UC-22		
<b>Use Case Name</b>	View list Ticket Class		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	27/02/2023
<b>Primary Actor:</b>	Staff, Customer	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users view the list Ticket Class.		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-22.1. User is logged into GymM.		
<b>Post-Condition:</b>	POST-22.1. The system displays the list of Ticket Class.		
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. The user clicks on the "Ticket Class" of the navigation bar.</li> <li>2. The system display list Ticket Class.</li> </ol>		
<b>Alternative Flow:</b>	1. User search on search input on navigation bar.		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

### 2.2.3.23 Add Ticket class

Table 23. Add Ticket Class use case specification

<b>Use Case ID</b>	UC-23		
<b>Use Case Name</b>	Add Ticket Class		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	20/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	admin create new Ticket class		
<b>Trigger:</b>	Have a new Ticket class		
<b>Preconditions:</b>	PRE-23.1. Admin is signed into GymM. PRE-23. Admin is on the add Ticket class page.		
<b>Post-Condition:</b>	POST-23.1. System creates a new Ticket class.		
<b>Normal Flow:</b>	1. Admin clicks button "Thêm mới" 2. Admin enters the Type, Price, Ticket Name, Total_days. 3. Admin clicks on the "Save" button. 4. The system checks the valid information. 6. The system creates a new Ticket class that the Admin created. 7. The system displays the message "Bạn đã thêm mới Ticket class thành công". 8. System add new Ticket Class to list all Ticket class.		
<b>Alternative Flow:</b>	1. User clicks button "Thêm mới" on the "danh sách Ticket class"		
<b>Exceptions:</b>	23-E1. Type empty: GymM displays an error message MSG-28. 23-E2. Type already exists: GymM displays an error message MSG-29. 23-E3. Price empty: GymM displays an error message MSG-30. 23-E4. Note empty: GymM displays an error message MSG-31. 23-E5. Total days empty: GymM displays an error message MSG-33. 23-E6. Total days is invalid: GymM displays an error message MSG-34. 23-E7. Price is invalid: GymM displays an error message MSG-35.		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	Medium		
<b>Business Rules:</b>	BR-01,BR-17,BR-18,BR-19,BR-20,BR-21,BR-22,BR-24		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

### 2.2.3.24 View Details Ticket class

Table 24. View Detail Ticket Class use case specification

<b>Use Case ID</b>	UC-24		
<b>Use Case Name</b>	View Details Ticket Class		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	23/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin View Details of a Ticket Class		

<b>Trigger:</b>	Admin want to view detail of a Ticket Class.
<b>Preconditions:</b>	PRE-24.1. Admin is signed into GymM. PRE-24.2. Admin is on the "Danh sách Ticket Class" page.
<b>Post-Condition:</b>	POST-24.1. The system displays the "View Details Ticket Class" page with Ticket Trainer information.
<b>Normal Flow:</b>	1. Admin click on the eye icon to the right of the record in the "Danh sách Ticket Class" page. 2. The system redirects to the "view detail Ticket Class" page. 3. The system displays the Ticket Trainer detailed information form. 4. The system displays the details of the Ticket Class.
<b>Alternative Flow:</b>	N/A
<b>Exceptions:</b>	24-E1. display wrong format GymM displays the error message MSG-36.
<b>Priority:</b>	High
<b>Frequency of Use:</b>	Medium
<b>Business Rules:</b>	BR-01
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.25 Update Ticket Class

Table 25. Update Ticket Class use case specification

<b>Use Case ID</b>	UC-25		
<b>Use Case Name</b>	Update Ticket Class		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	20/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin update Ticket Trainer.		
<b>Trigger:</b>	Admin has information on the Ticket Trainer you want to update?		
<b>Preconditions:</b>	PRE-25.1. Admin is signed into GymM. PRE-25.2. Admin is on the "Danh sách Ticket Trainer" page.		
<b>Post-Condition:</b>	POST-25.1. User edit Ticket Trainer successfully.		
<b>Normal Flow:</b>	1. The user clicks on the edit icon to edit the user's information on the "Danh sách Ticket Trainer" page. 2. The system displays form information to update the Ticket Trainer. 3. The user enters the information that wants to update in Type, Price, Note, Status, Total_days. 4. The user clicks on the "Lưu" button. 5. The system checks the valid information which the Admin entered. 6. The system updates new information which the Admin entered. 7. The system displays the message "Update successfully": System displays message MSG-41 to confirm. 8. the system directs to the "View detail Ticket Trainer" page.		
<b>Alternative Flow:</b>	1. The user clicks on the edit icon to edit the user's information on the "View detail Ticket Trainer" page.		
<b>Exceptions:</b>	25-E1. Type empty: GymM displays an error message MSG-28.		

	<p>25-E2. Type already exists: GymM displays an error message MSG-29.</p> <p>25-E3. Price empty: GymM displays an error message MSG-30.</p> <p>25-E4. Note empty: GymM displays an error message MSG-31.</p> <p>25-E5. Total days empty: GymM displays an error message MSG-33.</p> <p>25-E6. Total days is invalid: GymM displays an error message MSG-34.</p> <p>25-E7. Price is invalid: GymM displays an error message MSG-35.</p>
<b>Priority:</b>	Medium
<b>Frequency of Use:</b>	Medium
<b>Business Rules:</b>	BR-01, BR-17, BR-18, BR-19, BR-20, BR-21, BR-22, BR-24
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.26 Delete Ticket Class

Table 26. Delete Ticket Class use case specification

<b>Use Case ID</b>	UC-26		
<b>Use Case Name</b>	Delete Ticket Class		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	20/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin want to deletes a Ticket Class from the system		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-26.1. Admin is signed into GymM. PRE-26.2. Admin is on the “Danh sách Ticket Class” page.		
<b>Post-Condition:</b>	POST-26.1. System deletes a Ticket Class .		
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>User clicks the icon “Thùng rác” of material needed to delete on the “Danh sách Ticket Class” page.</li> <li>System displays message "Bạn có muốn xóa không" to confirm: System displays message MSG-40 to confirm.</li> <li>User clicks on the “Xác nhận” button to confirm or the “Hủy” button to cancel action delete.</li> <li>System deletes Ticket Class if Admin confirms to delete.</li> <li>The system redirects to the "Danh sách Ticket Class " page.</li> </ol>		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>			
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	Medium		
<b>Business Rules:</b>	BR-01		

<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.27 View list class

Table 27. View list Classr use case specification

<b>Use Case ID</b>	UC-27		
<b>Use Case Name</b>	View list class		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	24/02/2023
<b>Primary Actor:</b>	Staff, Customer, Guest	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users view the list class.		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-27.1. User is logged into GymM.		
<b>Post-Condition:</b>	POST-27.1. The system displays the list of classes.		
<b>Normal Flow:</b>	1. The user clicks on the "Lớp học" of the navigation bar. 2. The system displays list Class.		
<b>Alternative Flow:</b>	1. User search on search input on navigation bar.		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.28. Add Class

Table 28. Add Class use case specification

<b>Use Case ID</b>	UC-28		
<b>Use Case Name</b>	Add Class		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	01/03/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	admin create new Class		
<b>Trigger:</b>	Have a new Class		
<b>Preconditions:</b>	PRE-28.1. Admin is signed into GymM. PRE-28.2. Admin is on the “Quản lý lớp học” page.		
<b>Post-Condition:</b>	POST-28.1. System creates a new class.		
<b>Normal Flow:</b>	1. Admin clicks button “Thêm mới” 2. Admin enters the name of class, PT name, class ticket type,gym shift, start date, price, member, training schedule. 3. Admin clicks on the “Save” button. 4. The system checks the valid information. 6. The system creates a new Class that the Admin created. 7. The system displays the message "Bạn đã thêm mới lớp học thành công". 8. System add new Class to list all Class.		
<b>Alternative Flow:</b>	1. User clicks button “Thêm mới” on the “Quản lý lớp học”		
<b>Exceptions:</b>	28-E1. Class Name is empty: GymM displays an error message MSG-68. 28-E3. Price empty: GymM displays an error message MSG-30. 28-E4. Price empty: GymM displays an error message MSG-31. 28-E5. Price is invalid:		

	GymM displays an error message MSG-35. 28-E6. training schedule is empty: GymM displays an error message MSG-69.
<b>Priority:</b>	High
<b>Frequency of Use:</b>	Medium
<b>Business Rules:</b>	BR-01, BR-13, BR-20, BR-21, BR-54
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.29 View Details class

Table 29. View DetailClass use case specification

<b>Use Case ID</b>	UC-29		
<b>Use Case Name</b>	View Details Class		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	23/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin View Details of a Class		
<b>Trigger:</b>	Admin want to view detail of a Class.		
<b>Preconditions:</b>	PRE-29.1. Admin is signed into GymM. PRE-29.2. Admin is on the "Quản lý lớp học" page.		
<b>Post-Condition:</b>	POST-29.1. The system displays the "View Details Class " page with Class information.		
<b>Normal Flow:</b>	1. Admin click on the eye icon to the right of the record in the "Quản lý lớp học" page. 2. The system redirects to the "view detailClass " page. 3. The system displays the details of the Class.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	29-E1. display wrong format GymM displays the error message MSG-36.		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	Medium		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.30 Delete Class

Table 30. Delete Class use case specification

<b>Use Case ID</b>	UC-30		
<b>Use Case Name</b>	Delete Class		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	20/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin want to deletes a Class from the system		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-30.1. Admin is signed into GymM. PRE-30.2. Admin is on the "Quản lý lớp học" page.		
<b>Post-Condition:</b>	POST-30.1. System deletes a Class .		

<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>User clicks the icon “Thùng rác” of material needed to delete on the “Quản lý lớp học” page.</li> <li>System displays message "Bạn có muốn xóa không" to confirm: System displays message MSG-40 to confirm.</li> <li>User clicks on the “Xác nhận” button to confirm or the “Hủy” button to cancel action delete.</li> <li>System deletes Class if Admin confirms to delete.</li> <li>The system redirects to the "Quản lý lớp học" page.</li> </ol>
<b>Alternative Flow:</b>	N/A
<b>Exceptions:</b>	
<b>Priority:</b>	High
<b>Frequency of Use:</b>	Medium
<b>Business Rules:</b>	BR-01
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.31 View Order Cash-book

Table 31. View Order Cash-book use case specification

<b>Use Case ID</b>	UC-31		
<b>Use Case Name</b>	View Order Cash-book		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	23/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin View Order Cash-book		
<b>Trigger:</b>	Admin want to view Order Cash-book.		
<b>Preconditions:</b>	PRE-31.1. Admin is signed into GymM. PRE-31.2. Admin is on the “Doanh thu sản phẩm” page.		
<b>Post-Condition:</b>	POST-31.1. The system displays the "View Order Cash-book" page.		
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>Admin click on the “Thống kê doanh thu” in the navigation bar then click “Doanh thu bán hàng”</li> <li>The system redirects to the "Doanh thu sản phẩm" page.</li> <li>The system displays the details of the Order Cash-book.</li> </ol>		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	Medium		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.32 View Ticket Cash-book

Table 32. View Ticket Cash-book use case specification

<b>Use Case ID</b>	UC-32
<b>Use Case Name</b>	View Ticket Cash-book

<b>Create By:</b>	NamNC	<b>Create Date:</b>	23/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin View Ticket Cash-book		
<b>Trigger:</b>	Admin want to view Ticket Cash-book.		
<b>Preconditions:</b>	PRE-32.1. Admin is signed into GymM. PRE-32.2. Admin is on the "Doanh thu vé" page.		
<b>Post-Condition:</b>	POST-32.1. The system displays the "View Ticket Cash-book " page.		
<b>Normal Flow:</b>	1. Admin click on the "Thống kê doanh thu" in the navigation bar then click "Doanh thu vé" 2. The system redirects to the "Doanh thu sản phẩm " page. 3. The system displays the details of the Ticket Cash-book.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	Medium		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.33. View list product

Table 33. View list product use case specification

<b>Use Case ID</b>	UC-33		
<b>Use Case Name</b>	View list product		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	6/03/2023
<b>Primary Actor:</b>	common	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users view the list product.		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-33.1. User is logged into GymM.		
<b>Post-Condition:</b>	POST-33.1. The system displays the list of product.		
<b>Normal Flow:</b>	1. The user clicks on the " product" of the navigation bar. 2. The system display list product.		
<b>Alternative Flow:</b>	1. User search on search input on navigation bar.		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.34. Add Product

Table 34. Add Product use case specification

<b>Use Case ID</b>	UC-26		
<b>Use Case Name</b>	Add Product		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	01/03/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	admin create new Product		
<b>Trigger:</b>	Have a new Product		

<b>Preconditions:</b>	PRE-34.1. Admin is signed into GymM. PRE-34.2. Admin is on the “dashboard” page.
<b>Post-Condition:</b>	POST-34.1. System creates a new product.
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>Admin clicks button “Thêm mới Sản phẩm”</li> <li>Admin enters the name, image, price, quantity, status, kind, description.</li> <li>Admin clicks on the “Save” button.</li> <li>The system checks the valid information.</li> <li>The system creates a new Product that the Admin created.</li> <li>The system displays the message "Bạn đã thêm mới sản phẩm thành công".</li> <li>System add new Product to list all Product.</li> </ol>
<b>Alternative Flow:</b>	<ol style="list-style-type: none"> <li>User clicks button “Thêm mới” on the “danh sách sản phẩm”</li> </ol>
<b>Exceptions:</b>	<p>34-E1. Name empty: GymM displays an error message MSG-14.</p> <p>34-E2. name already exists: GymM displays an error message MSG-44.</p> <p>34-E3. Price empty: GymM displays an error message MSG-30.</p> <p>34-E4. Note empty: GymM displays an error message MSG-31.</p> <p>34-E5. Price is invalid: GymM displays an error message MSG-35.</p> <p>34-E6. image empty: GymM displays an error message MSG-42.</p> <p>34-E7. image format incorrectly GymM displays an error message MSG-43.</p> <p>34-E8. quantity empty: GymM displays an error message MSG-45.</p>
<b>Priority:</b>	High
<b>Frequency of Use:</b>	Medium
<b>Business Rules:</b>	BR-01, BR-13, BR-20, BR-21, BR-28, BR-29, BR-30
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.35. Update Product

Table 35. Update Product use case specification

<b>Use Case ID</b>	UC-35		
<b>Use Case Name</b>	Update Product		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	6/03/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin update their products after logging in.		
<b>Trigger:</b>	Admin with personal information want to update?		
<b>Preconditions:</b>	PRE-35.1. Admin are signed into GymM. PRE-35.2. Admin is viewing Product details.		
<b>Post-Condition:</b>	POST-35.1. Admin edit product successfully.		
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>The user clicks on the edit icon to edit the user’s information.</li> <li>The system displays form user’s information to update the Product.</li> <li>The user enters the information that wants to update in name, image, price, quantity, status, kind, description.</li> <li>The user clicks on the “Lưu” button.</li> <li>The system checks the valid information which the user entered.</li> <li>The system updates new information which the user entered.</li> </ol>		

	7. The system displays the message "Update successfully": System displays message MSG-41 to confirm. 8. the system directs to the "View Product" page.
<b>Alternative Flow:</b>	N/A
<b>Exceptions:</b>	<p>35-E1. Name empty: GymM displays an error message MSG-14.</p> <p>35-E2. name already exists: GymM displays an error message MSG-44.</p> <p>35-E3. Price empty: GymM displays an error message MSG-30.</p> <p>35-E4. Price empty: GymM displays an error message MSG-32.</p> <p>35-E5. Price is invalid: GymM displays an error message MSG-35.</p> <p>35-E6. image empty: GymM displays an error message MSG-41.</p> <p>35-E7. image empty: GymM displays an error message MSG-42.</p> <p>35-E8. image format incorrectly GymM displays an error message MSG-43.</p> <p>35-E9. quantity empty: GymM displays an error message MSG-45.</p>
<b>Priority:</b>	Medium
<b>Frequency of Use:</b>	Medium
<b>Business Rules:</b>	BR-01, BR-13, BR-14, BR-20, BR-21, BR-28, BR-29, BR-30
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.36. Delete Product

Table 36. Delete Product use case specification

<b>Use Case ID</b>	UC-36		
<b>Use Case Name</b>	Delete Product		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	6/03/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin want to deletes a product from the system		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-36.1. Admin is signed into GymM. PRE-36.2. Admin is on the “Danh sách sản phẩm” page.		
<b>Post-Condition:</b>	POST-36.1. System deletes a Product.		
<b>Normal Flow:</b>	1. User clicks icon “Thùng rác” of material need to delete on the “Danh sách sản phẩm” page. 2. System displays message "Bạn có muốn xóa không" to confirm: System displays message MSG-40 to confirm. 3. User clicks on the “Xác nhận” button to confirm or the “Hủy” button to cancel action delete. 4. System deletes Product if Admin confirms to delete. 5. The system redirects to the "Danh sách Product" page.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		

<b>Frequency of Use:</b>	Medium
<b>Business Rules:</b>	BR-01
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.37. View history order product

Table 37. View history order product use case specification

<b>Use Case ID</b>	UC-37		
<b>Use Case Name</b>	View history order product		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	6/03/2023
<b>Primary Actor:</b>	Customer,Admin, Staff, Trainer	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users view the order product history.		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-37.1. User is logged into GymM. PRE-37.2. User click avatar on the right in the navigation bar then click “Lịch sử hoạt động” after click “Lịch sử mua hàng”.		
<b>Post-Condition:</b>	POST-37.1. The system displays the list of order product history.		
<b>Normal Flow:</b>	1. The user clicks avatar on the right in the navigation bar then click “Lịch sử hoạt động” after click “Lịch sử mua hàng”. 2. The system display list order product history.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.38. View history order ticket

Table 38. View history order ticket use case specification

<b>Use Case ID</b>	UC-38		
<b>Use Case Name</b>	View history order ticket		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	6/03/2023
<b>Primary Actor:</b>	Customer,Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users view the order ticket history.		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-38.1. User is logged into GymM. PRE-38.2. User click avatar on the right in the navigation bar then click “Lịch sử hoạt động” after click “Lịch sử đặt vé vào cửa”.		
<b>Post-Condition:</b>	POST-38.1. The system displays the list of order ticket history.		
<b>Normal Flow:</b>	1. The user clicks avatar on the right in the navigation bar then click “Lịch sử hoạt động” after click “Lịch sử đặt vé vào cửa”. 2. The system display list order ticket history.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		

<b>Assumptions:</b>	N/A		
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#### 2.2.3.39. View history order ticket trainer

Table 39. View history order ticket trainer use case specification

<b>Use Case ID</b>	UC-39		
<b>Use Case Name</b>	View history order ticket trainer		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	6/03/2023
<b>Primary Actor:</b>	Customer,Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users view the order ticket trainer history.		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-39.1. User is logged into GymM. PRE-39.2. User click avatar on the right in the navigation bar then click “Lịch sử hoạt động” after click “Lịch sử thuê huấn luyện viên”.		
<b>Post-Condition:</b>	POST-39.1. The system displays the list of order ticket trainer history.		
<b>Normal Flow:</b>	1. The user clicks avatar on the right in the navigation bar then click “Lịch sử hoạt động” after click “Lịch sử thuê huấn luyện viên”. 2. The system display list order ticket trainer history.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.40. View history order ticket class

Table 40. View history order ticket class use case specification

<b>Use Case ID</b>	UC-39		
<b>Use Case Name</b>	View history order ticket class		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	6/03/2023
<b>Primary Actor:</b>	Customer,Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users view the order ticket class history.		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-40.1. User is logged into GymM. PRE-40.2. User click avatar on the right in the navigation bar then click “Lịch sử hoạt động” after click “Lịch sử tham gia lớp học”.		
<b>Post-Condition:</b>	POST-40.1. The system displays the list of order ticket class history.		
<b>Normal Flow:</b>	1. The user clicks avatar on the right in the navigation bar then click “Lịch sử hoạt động” after click “Lịch sử tham gia lớp học”. 2. The system display list order ticket class history.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.41. Create bill

Table 41. Create bill use case specification

<b>Use Case ID</b>	UC-41		
<b>Use Case Name</b>	Create order		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	6/03/2023
<b>Primary Actor:</b>	Staff	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Staff can create order bill		
<b>Trigger:</b>	There is 1 customer who wants to buy products.		
<b>Preconditions:</b>	PRE-41.1. Staff is logged into GymM. PRE-41.2. There are products in the system.		
<b>Post-Condition:</b>	POST-41.1. The system displays order.		
<b>Normal Flow:</b>	1. Staff click “Bán hàng” in the navigation bar 2. The system display order with list product, order table and bill		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	41-E1. Haven't selected a customer yet: GymM displays an error message MSG-64. 41-E2. Payment must be greater than payable: GymM displays an error message MSG-65.		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.42. View list check in

Table 42. View list check-in use case specification

<b>Use Case ID</b>	UC-42		
<b>Use Case Name</b>	View list check-in		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	6/03/2023
<b>Primary Actor:</b>	Staff, Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Staff, Admin can view list check-in of customers		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-42.1. Actors logged into GymM. PRE-42.2. Actors click “Danh sách check-in” in the navigation bar.		
<b>Post-Condition:</b>	POST-42.1. The system displays check-in list		
<b>Normal Flow:</b>	1. Actors click “Danh sách check-in” in the navigation bar. 2. The system displays check-in list of customers		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.43. View schedule

Table 43. View schedule use case specification

<b>Use Case ID</b>	UC-43		
<b>Use Case Name</b>	View schedule		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	6/03/2023
<b>Primary Actor:</b>	Common	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Trainer, Admin, Customer, Staff can view schedule of Trainer		

<b>Trigger:</b>	N/A
<b>Preconditions:</b>	PRE-43.1. Actors logged into GymM. PRE-43.2. Actors click "Vé" in the navigation bar then click "Vé tập với PT". PRE-43.3. Actors click "Ticket trainer" then click "Lịch trình" button
<b>Post-Condition:</b>	POST-43.1. The system displays schedule of trainer
<b>Normal Flow:</b>	1. Actors click "Vé" in the navigation bar then click "Vé tập với PT". 2. Actors click "Ticket trainer" then click "Lịch trình" button 3. The system displays schedule of trainer
<b>Alternative Flow:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Priority:</b>	High
<b>Frequency of Use:</b>	High
<b>Business Rules:</b>	BR-01
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.44. Add attendance

Table 44. Add attendance use case specification

<b>Use Case ID</b>	UC-44		
<b>Use Case Name</b>	Add attendance		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	6/03/2023
<b>Primary Actor:</b>	Trainer	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Trainer can take attendance		
<b>Trigger:</b>	PT takes attendance of students in class		
<b>Preconditions:</b>	PRE-44.1. Trainer logged into GymM. PRE-44.2. Trainer click "Quản lý lớp học" in the navigation bar. PRE-44.3. Trainer click "Điểm danh" in the row of each class record.		
<b>Post-Condition:</b>	POST-44.1. The system add attendance		
<b>Normal Flow:</b>	1. Trainer click "Quản lý lớp học" in the navigation bar. 2. Trainer click "Điểm danh" in the row of each class record. 3. Trainer click check box to take attendance then click "Lưu" button 4. The system add attendance		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	44-E1. Class hasn't started yet: GymM displays an error message MSG-70.		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01, BR-55		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.45. View attendance

Table 45. View attendance use case specification

<b>Use Case ID</b>	UC-45		
<b>Use Case Name</b>	View attendance		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	6/03/2023
<b>Primary Actor:</b>	Trainer, Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Trainer, Admin can view attendance		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-45.1. Actors logged into GymM.		

	PRE-45.2. Actors click “Quản lý lớp học” in the navigation bar. PRE-45.3. Actors click “Eye” icon in the row of each class record. PRE-45.4. Actors click “Khóa biểu tổng quát” button
<b>Post-Condition:</b>	POST-45.1. The system displays attendance sheet of students
<b>Normal Flow:</b>	1. Actors click “Quản lý lớp học” in the navigation bar. 2. Actors click “Eye” icon in the row of each class record. 3. Actors click “Khóa biểu tổng quát” button 4. The system displays attendance sheet of students
<b>Alternative Flow:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Priority:</b>	High
<b>Frequency of Use:</b>	High
<b>Business Rules:</b>	BR-01
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.46. Update attendance

Table 46. Update attendance use case specification

<b>Use Case ID</b>	UC-46		
<b>Use Case Name</b>	Update attendance		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	6/03/2023
<b>Primary Actor:</b>	Trainer	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Trainer can update attendance		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-46.1. Trainer logged into GymM. PRE-46.2. Trainer click “Quản lý lớp học” in the navigation bar. PRE-46.3. Trainer click “Update” in the row of each class record.		
<b>Post-Condition:</b>	POST-46.1. The system updates the student's attendance status		
<b>Normal Flow:</b>	1. Trainer click “Quản lý lớp học” in the navigation bar. 2. Trainer click “Update” in the row of each class record. 3. Trainer click check box to take or cancel attendance 4. The system updates the student's attendance status		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	46-E1. Class hasn't started yet: GymM displays an error message MSG-70. 46-E1. Attendance cannot be updated once the date has passed: GymM displays an error message MSG-71.		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01, BR-55, BR-56, BR-57		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.47 Book ticket class

Table 47. Book Ticket use case specification

<b>Use Case ID</b>	UC-47		
<b>Use Case Name</b>	Book ticket class		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	01/03/2023
<b>Primary Actor:</b>	Customer	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users book a ticket class.		

<b>Trigger:</b>	N/A
<b>Preconditions:</b>	PRE-47.1. User is logged into GymM. PRE-47.2. Click "Vé" in the navigation bar then click "Vé lớp".
<b>Post-Condition:</b>	POST-47.1. The user has successfully booked the Ticket Class
<b>Normal Flow:</b>	1. Click "Vé" in the navigation bar then click "Vé lớp". 2. The system displays list ticket class. 3. users click the book ticket class. 4. The system checks if the user has booked a ticket.
<b>Alternative Flow:</b>	N/A
<b>Exceptions:</b>	47-E1. Have not booked tickets: GymM displays an error message MSG-38. 47-E1. The class is out of slots: GymM displays an error message MSG-72.
<b>Priority:</b>	High
<b>Frequency of Use:</b>	High
<b>Business Rules:</b>	BR-01, BR-47, BR-58
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.48 View list trainer

Table 48. View List Trainer use case specification

<b>Use Case ID</b>	UC-48		
<b>Use Case Name</b>	View List trainer		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	01/03/2023
<b>Primary Actor:</b>	Customer, Admin, Staff	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users View List Trainer.		
<b>Trigger:</b>	Users want to see information of trainers.		
<b>Preconditions:</b>	PRE-48.1. User is logged into GymM. PRE-48.2. Users click "Danh sách huấn luyện viên".		
<b>Post-Condition:</b>	POST-48.1. The system displays list of trainer		
<b>Normal Flow:</b>	1. The user clicks on the "Danh sách huấn luyện viên" of the navigation bar. 2. The system displays list Trainer.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.49 Book ticket

Table 49. Book Ticketr use case specification

<b>Use Case ID</b>	UC-49		
<b>Use Case Name</b>	Book Ticket Trainer		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	01/03/2023
<b>Primary Actor:</b>	Customer	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users book Ticket Trainer.		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-49.1. User is logged into GymM. PRE-49.2. Click "Trang chủ" in the navigation bar		

<b>Post-Condition:</b>	POST-49.1. The user has successfully booked the Ticket
<b>Normal Flow:</b>	1. Click “Trang chủ” in the navigation bar 2. The system display list ticket. 3. users click book ticket
<b>Alternative Flow:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Priority:</b>	High
<b>Frequency of Use:</b>	High
<b>Business Rules:</b>	BR-01
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.50 Book ticket trainer

Table 50. Book Ticket Trainer use case specification

<b>Use Case ID</b>	UC-50		
<b>Use Case Name</b>	Book Ticket Trainer		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	01/03/2023
<b>Primary Actor:</b>	Customer	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Users book Ticket Trainer.		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-50.1. User is logged into GymM. PRE-50.2. Click “Vé” in the navigation bar then click “Vé tập với PT”.		
<b>Post-Condition:</b>	POST-50.1. The user has successfully booked the Ticket Trainer		
<b>Normal Flow:</b>	1. Click “Vé” in the navigation bar then click “Vé tập với PT”. 2. The system display list ticket trainer. 3. users click book trainer. 4. The system checks if the user has booked a ticket.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	50-E1. User has not booked a ticket: GymM displays the error message MSG-38.		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01,BR-27		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.51. CheckIn

Table 51. CheckIn use case specification

<b>Use Case ID</b>	UC-51		
<b>Use Case Name</b>	CheckIn		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	6/03/2023
<b>Primary Actor:</b>	Customer, Trainer	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Customers check in before going to the gym		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-51.1. Customer login to GymM website then click “Check in” in the navigation bar. PRE-51.2. The entry ticket is valid/not defective.		
<b>Post-Condition:</b>	POST-51.1. The system displays checkin successful.		
<b>Normal Flow:</b>	1. Customer login to the website 2. Click the “checkin” button on the right on the navbar		

	3. The system will display a successful checkin message .
<b>Alternative Flow:</b>	N/A
<b>Exceptions:</b>	51-E1. You don't have a ticket yet: GymM displays an error message MSG-67. 51-E2. Your ticket has expired: GymM displays an error message MSG-66.
<b>Priority:</b>	High
<b>Frequency of Use:</b>	High
<b>Business Rules:</b>	BR-01, BR-51
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.52. Book schedule

Table 52. Book schedule use case specification

<b>Use Case ID</b>	UC-52		
<b>Use Case Name</b>	Book schedule		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	13/03/2023
<b>Primary Actor:</b>	Customer	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Customers can book schedules online.		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-52.1. User has a GymM account. PRE-52.2. The user account has logged into the GymM system. PRE-52.3 The user purchased the ticket trainer		
<b>Post-Condition:</b>	POST-52.1. The user has set a schedule.		
<b>Normal Flow:</b>	1. User clicks on the 'Schedule' button. 2. The system directs to the "Schedule" page. 3. The user clicks on the time box he wants to set a schedule for. 4. The model display system has: input ticket trainer, input trainer, thời gian, ngày bắt đầu, ngày kết thúc, thời gian gói, số buổi còn lại, dropdown lặp định kỳ, dropdown số lần lặp, trạng thái, button 'Đóng', button 'Đặt ngay'. 5. The user enters the information in the model. 6. User clicks on 'Đặt ngay' button.		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>			
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01, BR-25,BR-45		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.53. View cart

Table 53. View cart use case specification

<b>Use Case ID</b>	UC-53		
<b>Use Case Name</b>	View cart		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	13/03/2023
<b>Primary Actor:</b>	Customer	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Customer can view cart		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-53.1. Customer has a GymM account.		

	PRE-53.2. The customer account has logged into the GymM system. PRE-53.3. The customer book some tickets then it will add to cart.
<b>Post-Condition:</b>	POST-53.2. The system displays the "Giỏ hàng" page.
<b>Normal Flow:</b>	1. The customer book some tickets. 2. Click "Cart" icon in the navigation bar to view cart.
<b>Alternative Flow:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Priority:</b>	High
<b>Frequency of Use:</b>	High
<b>Business Rules:</b>	BR-01
<b>Other Information:</b>	N/A
<b>Assumptions:</b>	N/A

#### 2.2.3.54. Online ticket payment

Table 54. Online Ticket Payment use case specification

<b>Use Case ID</b>	UC-54		
<b>Use Case Name</b>	Online ticket payment		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	13/03/2023
<b>Primary Actor:</b>	Customer	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Customers can pay for tickets online.		
<b>Trigger:</b>	buy a new ticket.		
<b>Preconditions:</b>	PRE-54.1. User has a GymM account. PRE-54.2. The user account has logged into the GymM system. PRE-54.3. the user has created an order and has selected the ticket. PRE-54.4. The user already has a bank account		
<b>Post-Condition:</b>	POST-54.1. The user has purchased a ticket		
<b>Normal Flow:</b>	1. The user is on the ticket page, the system displays the information and ticket types. 2. The user selects the ticket and clicks on the 'mua' button below the ticket. 3. The system displays a model named ticket and price and start date and end date and 2 buttons 'Close' and 'Save'. 3.1. If the user clicks 'Close' the system will close the model. 3.2. If the user clicks 'Save' the system displays message MSG-00 to confirm. 4. the system directs to the "Payment" page has payment methods 'Ứng dụng thanh toán hỗ trợ VNPay', 'thẻ nội địa và tài khoản ngân hàng' and 'ví điện tử VNPay'. 5. User clicks 'thẻ nội địa và tài khoản ngân hàng' and selects user's bank. 6. The system displays ticket name, price, text 'thanh toán qua ngân hàng', enter 'số thẻ', enter 'tên chủ thẻ', select 'ngày phát hành', button 'hủy thanh toán', button 'Thanh toán'. 7. The user clicks 'pay' and the system will send an OTP to the user's email. 8. User enters the OTP received. 9. User clicks on the button 'Thanh toán'. 10. The system displays the message "Thanh toán thành công": System displays message MSG-00 to confirm. 11. the system directs to the "Home" page .		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		

<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01, BR-35, BR-36, BR-37, BR-38, BR-39, BR-40, BR-41, BR-42		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.55. Delete ticket in cart

Table 53. Delete ticket in cart use case specification

<b>Use Case ID</b>	UC-55		
<b>Use Case Name</b>	Delete ticket in cart		
<b>Create By:</b>	NamNC	<b>Create Date:</b>	13/03/2023
<b>Primary Actor:</b>	Customer	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Customer can delete ticket in cart		
<b>Trigger:</b>	N/A		
<b>Preconditions:</b>	PRE-55.1. Customer has a GymM account. PRE-55.2. The customer account has logged into the GymM system. PRE-55.3. The customer go to "Giỏ hàng" screen. PRE-55.4. Click "Xóa Vé" button to delete ticket from cart		
<b>Post-Condition:</b>	POST-55.2. The system removes tickets already booked from the cart		
<b>Normal Flow:</b>	1. The customer book some tickets. 2. Click "Cart" icon in the navigation bar to view cash. 3. Click "Xóa Vé" button to delete ticket from cart 4. The system removes tickets already booked from the cart		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	N/A		
<b>Priority:</b>	High		
<b>Frequency of Use:</b>	High		
<b>Business Rules:</b>	BR-01		
<b>Other Information:</b>	N/A		
<b>Assumptions:</b>	N/A		

#### 2.2.3.56 View Details product

Table 56. View Detail Product use case specification

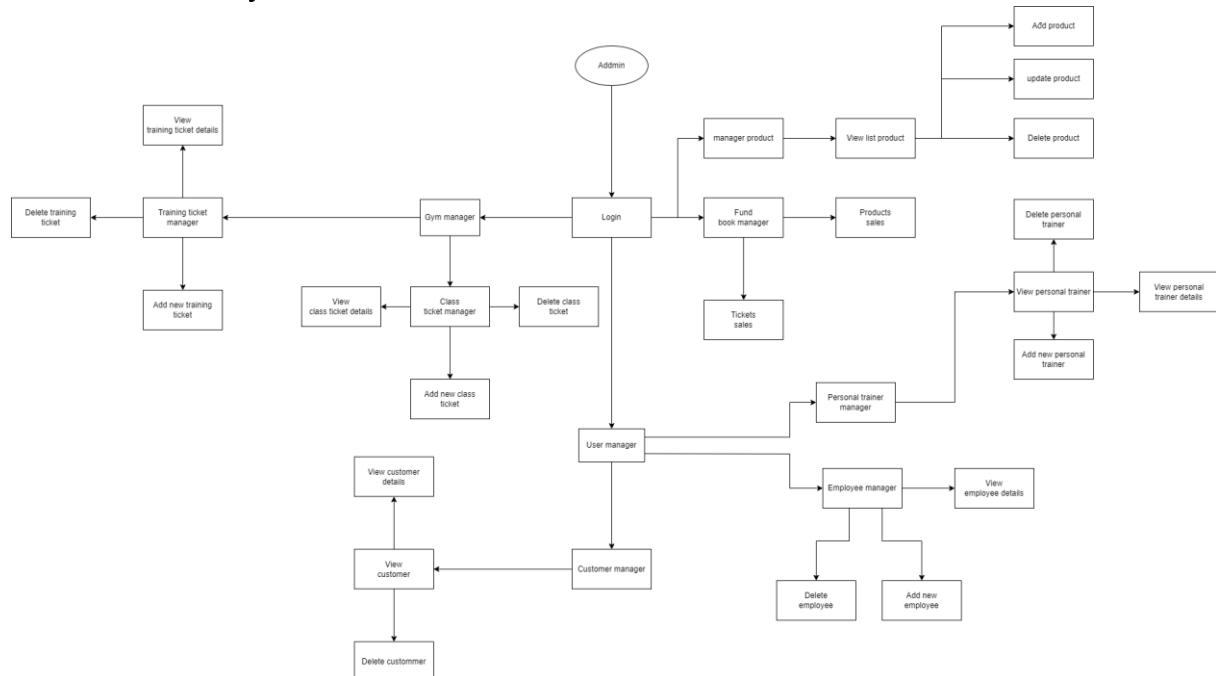
<b>Use Case ID</b>	UC-56		
<b>Use Case Name</b>	View Details Product		
<b>Create By:</b>	HieuHM	<b>Create Date:</b>	23/02/2023
<b>Primary Actor:</b>	Admin	<b>Secondary Actors:</b>	N/A
<b>Description:</b>	Admin View Details of a Product		
<b>Trigger:</b>	Admin want to view detail of a Product.		
<b>Preconditions:</b>	PRE-56.1. Admin is signed into GymM. PRE-56.2. Admin is on the "Quản lý sản phẩm" page.		
<b>Post-Condition:</b>	POST-56.1. The system displays the "View Details Product" page with Product information.		
<b>Normal Flow:</b>	1. Admin click on the eye icon to the right of the record in the "Quản lý sản phẩm" page. 2. The system redirects to the "view detail Product" page. 3. The system displays the details of the Product .		
<b>Alternative Flow:</b>	N/A		
<b>Exceptions:</b>	56-E1. display wrong format GymM displays the error message MSG-36.		

Priority:	High
Frequency of Use:	Medium
Business Rules:	BR-01
Other Information:	N/A
Assumptions:	N/A

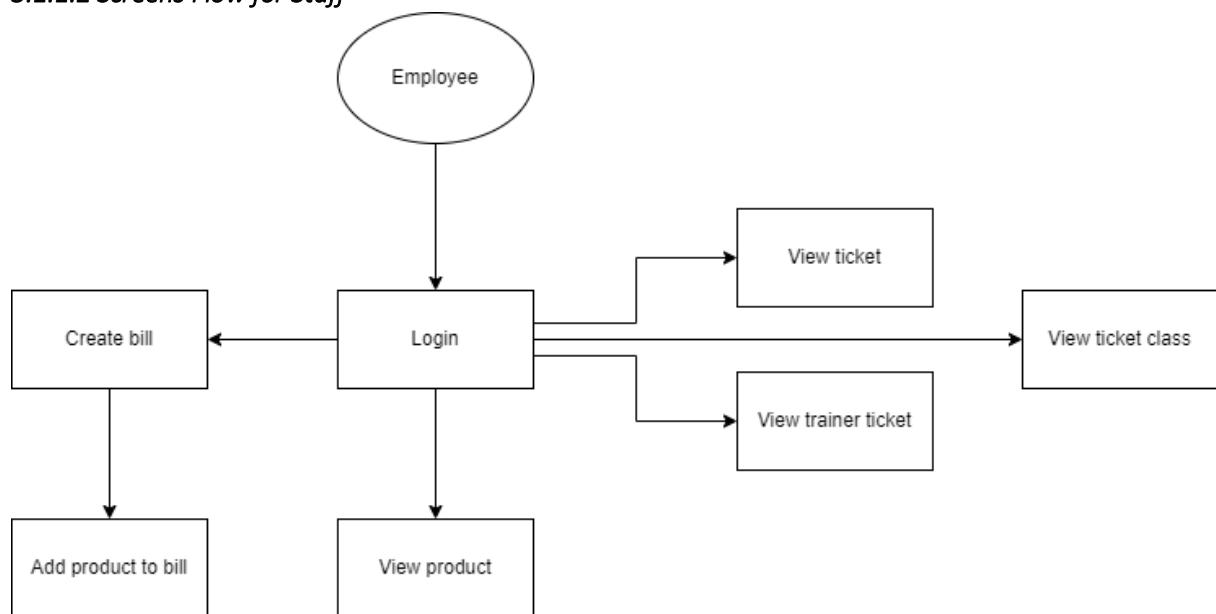
### 3. Functional Requirements

### 3.1 System Functional Overview

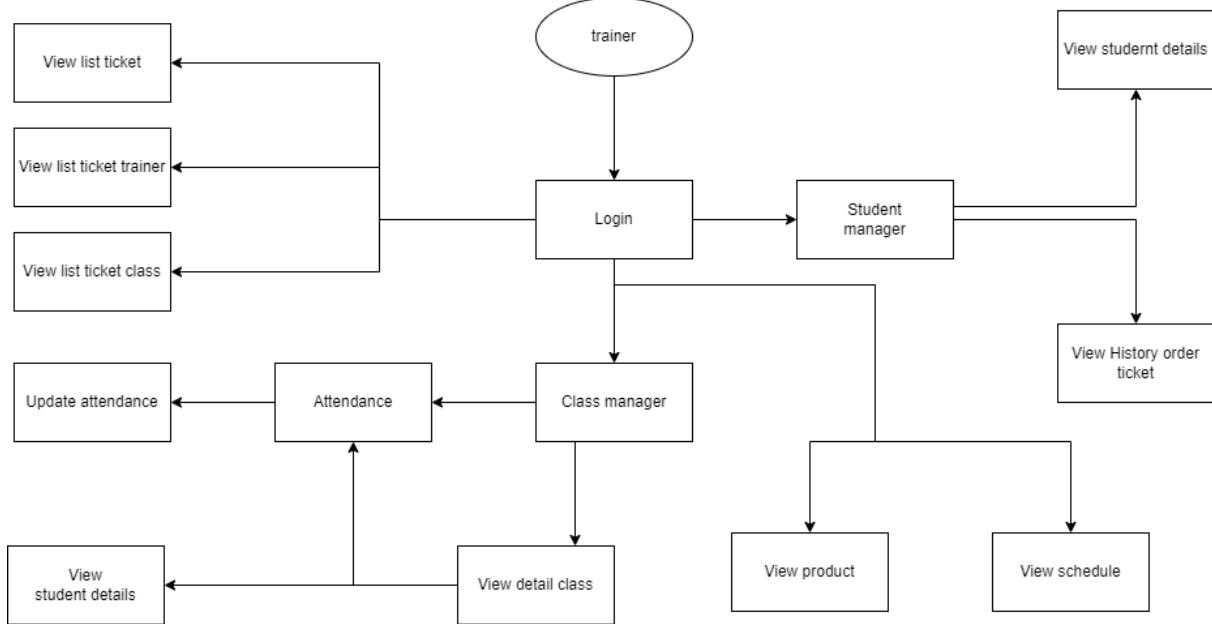
### **3.1.1.1 Screens Flow for Admin**



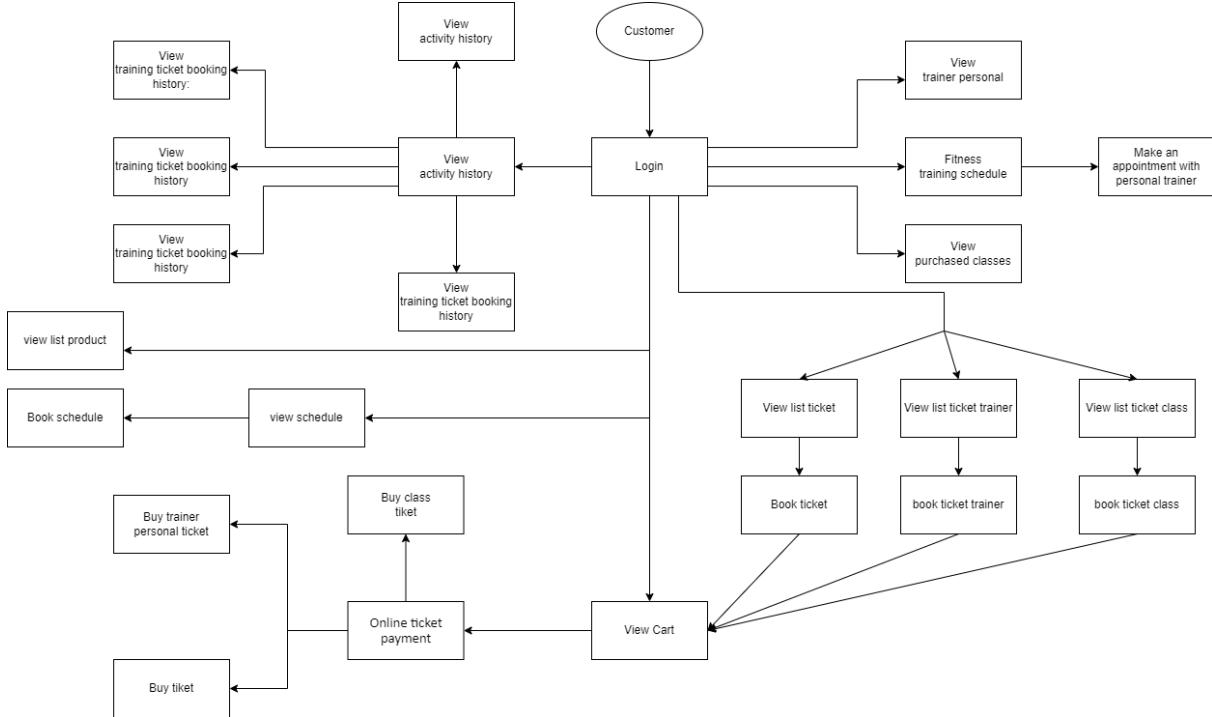
### **3.1.1.2 Screens Flow for Staff**



### 3.1.1.3 Screens Flow for trainer



### 3.1.1.4 Screens Flow for customer



### 3.1.2 Screen Descriptions

#	Feature	Screen	Description
1	Dashboard	Home page	User overview the system
2	Login	Login page	Page Screen for guest to sign into website
3	Register	Register page	Page Screen register new account to sign into the website
4	Reset password	Forgot password page	Screen where user wants to reset password.

#	Feature	Screen	Description
5	home page	home page	User Profile Page Screen where user can see all information of logged account.
6	View profile	User profile page	Page Screen view detail profile
7	Change password	Change password page	Page Screen User can change new password
8	Add Account	add account by admin page	Page Screen Admin creates Account Staff.
9	View Detail Account	View Detail Account page	Page Screen Admin can view detailed accounts.
10	Add Ticket	view add ticket page	Page Screen Admin create ticket.
11	Add Trainer for Ticket Trainer	View Trainer for Ticket Trainer page	Page Screen Admin add Trainer for Ticket Trainer
12	Add Ticket Class	view Add Ticket Class page	Page Screen Admin add Ticket Class
13	Add Class for Ticket Class	View Add Class for Ticket Class page	Page Screen Admin add Class for Ticket Class
14	View list Ticket	view View list Ticket page	Page Screen Users can see the list of tickets with information related to ticket and price.
15	View list Ticket Trainer	view View list Ticket Trainer page	Page Screen Users can see the list of Ticket Trainer with information related to Ticket Trainer and price.
16	View list Ticket Class	View View list Ticket Class page	Page Screen User can see the list of ticket with information related to ticket Class
17	View Detail Ticket	view View Detail Ticket page	Page Screen Admin can view detail ticket
18	View Detail Ticket Trainer	View View Detail Ticket Trainer page	Page Screen Admin can view detail Ticket Trainer
19	View Detail Ticket Class	View Detail Ticket Class page	Page Screen Admin can view Detail Ticket Class
20	View Detail Class	View Detail Class page	Page ScreenAdmin can view Detail Clas
21	View list Product	View list Product page	Page Screen All user can view list product
22	View list Trainer	View list Trainer page	Page Screen Admin, Customer can see the list of trainers with information related to the trainer.
23	View list Staff	View list Staff page	Page Screen Admin can see the list of Staff with information related to the Staff.
24	View list Customer	View list Customer page	Page Screen Admin can see the list of Customer with information related to the Customer
25	Book Ticket	Book Ticket page	Page Screen Customers can book tickets they want.

#	Feature	Screen	Description		
26	Book Ticket Trainer	Book Ticket Trainer page	Page Screen Customers can book Ticket Trainer they want.		
27	Book Trainer	View Book Trainer page	Page Screen Customers can book the trainer they want.		
28	Book Ticket Class	view Book Ticket Class page	Page Screen Customers can book Ticket Class they want.		
29	book schedule for ticket Trainer	View book schedule for ticket Trainer page	Page Screen Customers can book a schedule for the ticket Trainer they want, if the Trainer time is not busy.		
30	view schedule	view schedule page	Page Screen Customers and Trainer can view schedules.		
31	View list Product	view list product on shop page	Page Screen All user can view list product, by the way admin can add, update, delete product		
32	Create order	View Create order page	Page Screen The screen displays input data to print payment invoices		
33	View order cash book	View order cash book page	Page Screen Admin can view order cash book		
34	View ticket cash book	View ticket cash book page	Page Screen Admin can view ticket cash book		
35	Check-in	View check-in page	Page Screen Trainer, Customer can scan qr code to check in.		
36	Online ticket payment	View Online ticket payment page	Page Screen Customers can make online ticket payment by VNpay.		
37	View activity log of user	View activity log of user page	Page Screen Admin view activity log of user		
38	View Order Ticket	View Order Ticket page	Page Screen Admin view Order Ticket		
39	View Order PT	View Order PT page	Page Screen Admin view Order PT		
40	View Order Class	View Order Class page	Page Screen Admin view Order Class		
41	View Order Product	View Order Product page	Page Screen Admin view Order Product		

### 3.1.3 Screen Authorization

Screen	Admin	Staff	Trainer	Customer	Guest
Home Page	X	X	X	X	X
Login	X	X	X	X	X
Logout	X	X	X	X	X
Register					X
Change Password	X	X	X	X	
Forgot Password		X	X	X	
View Profile	X	X	X	X	

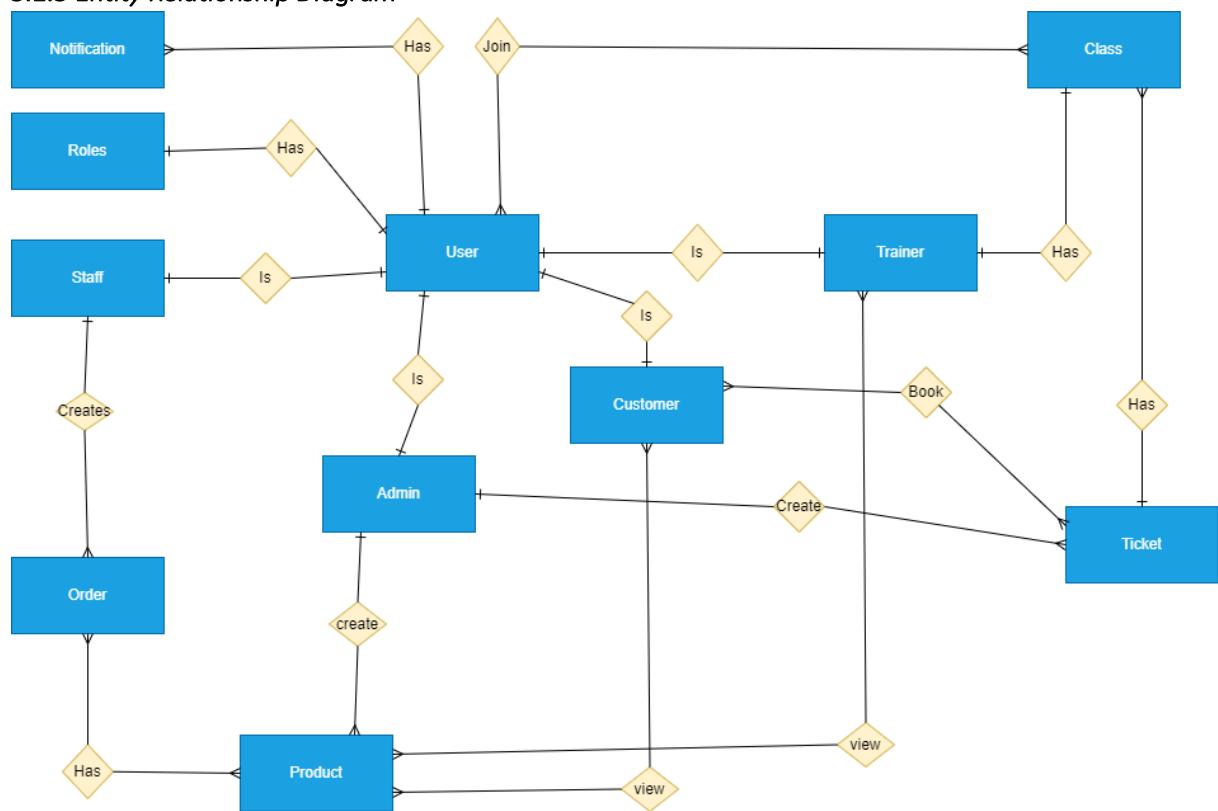
Update Profile	X	X	X	X	
View list account	X				
Add account	X				
View detail account	X				
Delete account	X				
View list ticket	X				
Add ticket	X				
View detail ticket	X				
Update ticket	X				
Delete ticket	X				
View list ticket trainer	X				
Add ticket trainer	X				
View detail ticket trainer	X				
Update ticket trainer	X				
Delete ticket trainer	X				
View list ticket class	X				
Add ticket class	X				
View detail ticket class	X				
Update ticket class	X				
Delete ticket class	X				
View list class	X	X	X	X	
Add class	X				
View detail class	X				
Delete class	X				
View order cash-book	X				
View ticket cash-book	X				
View list product	X	X	X	X	
Add product	X				
Edit product	X				
Delete product	X				
View history order product	X	X	X	X	
View history order ticket	X				X
View history order ticket trainer	X				X
View history order ticket class	X				X
Create bill		X			
View list check in	X	X			
View schedule	X	X	X	X	
Add attendance			X		
View attendance	X		X		
Update attendance			X		
Booking ticket class					X
View list trainer	X	X		X	
Booking ticket					X
Booking ticket trainer					X

Check in				X	
Booking schedule				X	
View cart				X	
Online payment				X	
Delete ticket in cart				X	

### 3.1.4 Non-Screen Functions

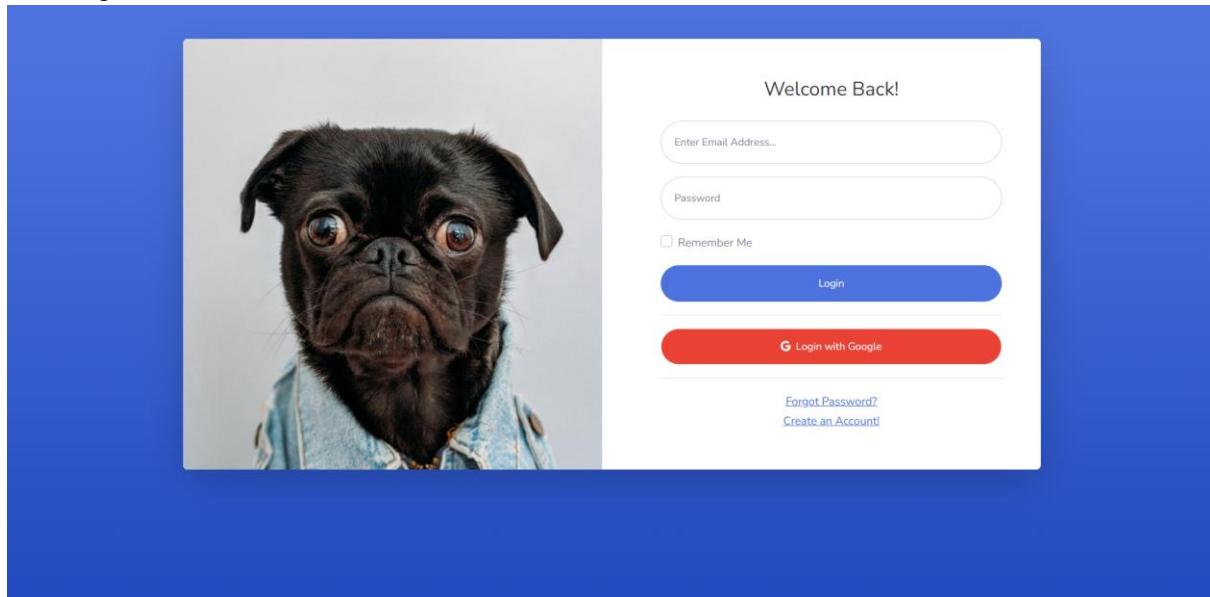
#	Feature	System Function	Description
1	Authentication	Validate employee	Using username and password to login
2	Sent new password	Sent a new password to email	The system send email message to User want reset password

### 3.1.5 Entity Relationship Diagram



## 3.2 Feature Detail

### 3.2.1 Login



<b>ID and Name:</b>	1 - Login	<b>Actor:</b>	Admin, User
<b>Description:</b>	The function allows actors to log into the system		
<b>Trigger:</b>	When the actors logged into the system with username and password.		
<b>Preconditions:</b>	PRE-1.1. User has a GymM account. PRE-1.2. The user's account is not locked.		
<b>Post-conditions:</b>	POST-1.1. User logged into GymM successfully. POST-1.2. The system displays the Home Page or on the role.		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. User access website. 2. System displays Home page. 3. User presse login button. 4. The system displays the Login page. 5. The system displays the login form as a screen. 6. User enters Email and password in login form. 7. User presse "Login" button. 8. The system checks the email and password information entered by the user. 9. The system redirects to the Home page if the role is Customer 9.1 Admin to the dashboard.	<b>System response</b>	3. The system authenticates the credentials successfully and allows the actor to access the website
<b>Alternative Flows:</b>	1. User is on the register page click login		
<b>Exception Flows:</b>	1-E1. Email/Password is not correct: GymM displays an error message MSG-3. 1-E2. Email is empty: GymM displays an error message MSG-6. 1-E3. Password is empty:		

	GymM displays an error message MSG-7. 1-E4: The account is block: GymM displays an error message MSG-2. 1-E5. Incorrect password. GymM displays an error message MSG-19. 1-E6. Email is invalid GymM displays an error message MSG-4
<b>Business Rules:</b>	BR-01, BR-02, BR-03, BR-06

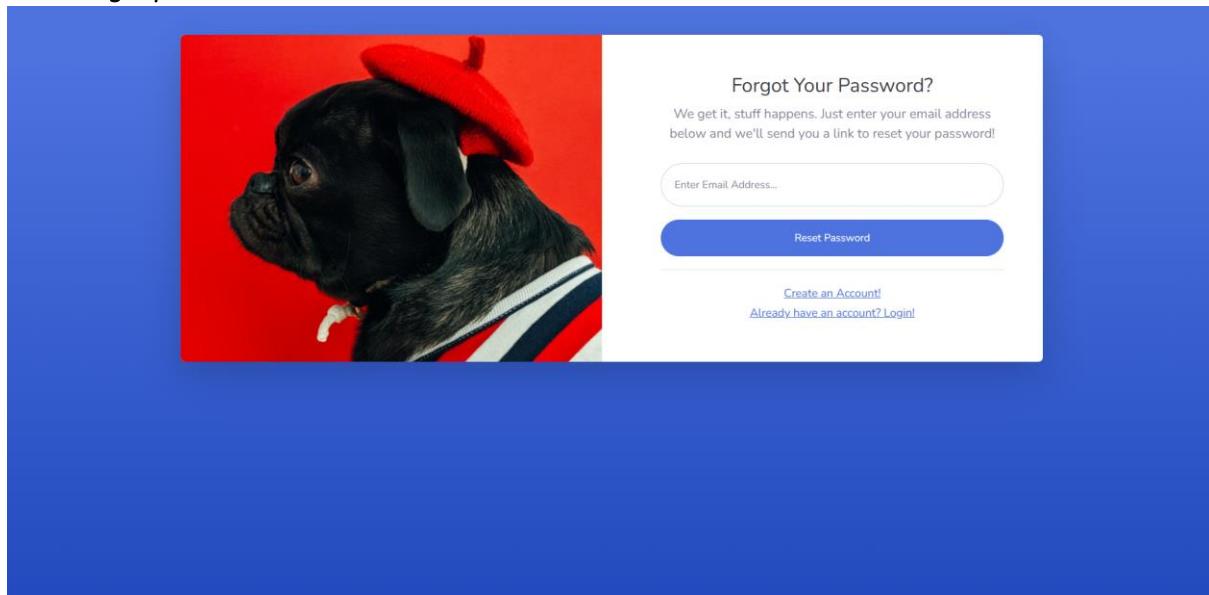
### 3.2.2 Register

The image shows a black pug dog looking up at the camera, positioned on the left side of a registration form. The form has a blue header "Create an Account!" and fields for First Name, Last Name, Email Address, Password, and Repeat Password. It includes a blue "Register Account" button, a red "G Register with Google" button, and links for "Forgot Password?" and "Already have an account? Login!".

<b>ID and Name:</b>	2 - Register	<b>Actor:</b>	User
<b>Description:</b>	Guests register a new GymM account to sign into GymM.		
<b>Trigger:</b>	Guest wants to register an account as a Customer		
<b>Preconditions:</b>	PRE-2.1. User does not have an account.		
<b>Post-conditions:</b>	POST-2.1. User has successfully registered for GymM. POST-2.2. The system displays the "Login" page.		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. The user is on the home page. 2. The user presses the "tạo một tài khoản" button on the right side of the navigation bar. 3. System displays Register page. 4. System displays the Register form as a screen. 3. User enters "name" and "Email" and "Phone" and "password" and "re-enter password". 4. Users press the "Register" button. 5. The system checks the input information which the user entered. 6. Display successfully registered message. 7. The system redirects to "Login".	<b>System response</b>	The system authenticates the register successfully and allows the actor to access the website
<b>Alternative Flows:</b>	N/A		

Exception Flows:	<p>3-E1. Email available: GymM displays the error message MSG-9.</p> <p>3-E2. Phone is not valid: GymM displays the error message MSG-10.</p> <p>3-E3. Password must be more than 8 characters: GymM displays the error message MSG-11.</p> <p>3-E4. Password must contain at least 1 lowercase letter, 1 uppercase letter, 1 number, and 1 special character: GymM displays the error message MSG-12.</p> <p>3-E5. The re-enter password does not match with the password: GymM displays the error message MSG-13.</p> <p>3-E6. Empty input name: GymM displays the error message MSG-14.</p> <p>3-E7. Empty input Email: GymM displays the error message MSG-6.</p> <p>3-E8. Empty input Phone: GymM displays the error message MSG-15.</p> <p>3-E9. Empty input password: GymM displays the error message MSG-7.</p> <p>3-E10. Empty input re-enter password: GymM displays the error message MSG-16.</p> <p>3-E11. Name is invalid GymM displays the error message MSG-24.</p> <p>3-E11. Email is invalid GymM displays the error message MSG-25.</p>
Business Rules:	BR-02, BR-03, BR-04, BR-06, BR-07, BR-08, BR-09, BR-10, BR-11, BR-12, BR-13, BR-14

### 3.2.3 Forgot password



ID and Name:	3 - Register	Actor:	Admin,staff,Trainer, User
Description:	Reset user's password via Email.		
Trigger:	User forgot the password and wants to reset the password.		

<b>Preconditions:</b>	PRE-3.1. User has a GymM account. PRE-3.2. The user's account is not blocked. PRE-3.3. User is on the login page.	
<b>Post-conditions:</b>	POST-3.1. The system resets the user's password. POST-3.2. The system sends reset password to the user's email.	
<b>Normal Flows:</b>	<b>Actor actions</b> 1. The user clicks on “Quên mật khẩu”. 2. System directs to the Forget Password page. 3. The user enters an email in the “Nhập email” text box. 4. The user clicks on the “Gửi về email” button. 5. The system checks the email that the user entered. 6. The system resets the user password and sends a new password to the email that user inputted. 7. The user receives a new password from the inputted email. 8. the system directs to the login page. 9. The user uses the new password that the system sent to log in.	<b>System response</b>  The system authenticates the register successfully and allows the actor to access the website
<b>Alternative Flows:</b>	N/A	
<b>Exception Flows:</b>	6-E1. Empty input Email: GymM displays an error message MSG-6. 6-E2. Account email and entered email do not match: GymM displays an error message MSG-22.	
<b>Business Rules:</b>	BR-01	

### 3.2.4 User profile

Thông tin người

Tên đầy đủ: Hoàng Hiếu

Email: hoanghieu18092000@gmail.com

Mật khẩu: \*\*\*\*

Giới tính: Nam

Số điện thoại: 0111233455

Ngày sinh: 03/01/2023

Địa chỉ: Thái Nguyên

CCCD: 022314658794

Cập nhật

<b>ID and Name:</b>	4 - User profile	<b>Actor:</b>	Admin, staff, Trainer, Customer
<b>Description:</b>	User's view profile.		
<b>Trigger:</b>	Users want to view the user's own profile.		
<b>Preconditions:</b>	PRE-4.1. User account is not blocked. PRE-4.2. Users are signed into GymM.		
<b>Post-conditions:</b>	POST-4.1. The system displays the "View Profile" page with the user's information.		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. The user clicks on the avatar icon on the top right of the navigation bar. 2. The user clicks on the "View Profile" button.	<b>System response</b> 3. System displays the user profile.	
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	5-E1. wrong information displayed GymM displays the error message MSG-00. 5-E2. display wrong format GymM displays the error message MSG-00.		
<b>Business Rules:</b>	BR-01		

### 3.2.5 Change password

The screenshot shows a user interface for changing a password. At the top, there's a navigation bar with the 'GYM MASTER' logo, user roles like 'Người dùng hệ thống', 'Phòng tập', and 'Số quý', and a user profile for 'Hoàng Đức Lương'. The main area is titled 'Đổi mật khẩu' (Change password). It contains three input fields: 'Mật khẩu hiện tại' (Current password), 'Mật khẩu mới' (New password), and 'Điền lại mật khẩu mới' (Confirm new password). Below these is a blue 'Đổi mật khẩu' (Change password) button.

<b>ID and Name:</b>	5 - Change password	<b>Actor:</b>	Admin, staff, Trainer, Customer
<b>Description:</b>	This function allows actors to reset a password and make a new password		
<b>Trigger:</b>	When the actor don't remember password and click to “Đổi mật khẩu” button in login screen		
<b>Preconditions:</b>	PRE-5.1. User account is not blocked. PRE-5.2. Users are signed into GymM. PRE-5.3. Enter current password PRE-5.4. Enter the new password and confirm the password		
<b>Post-conditions:</b>	<b>POST-5.1.</b> The system will display a successful message.		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. The user clicks on the avatar icon on the top right of the navigation bar. 2. The user clicks on the “Đổi mật khẩu” button. 3. Enter correct information according to system requirements 4. Click to “Xác nhận” button	<b>System response</b>	5. The system validates the successful password reset
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	5-E1. Password is empty: GymM displays the message MSG-7. 5-E2. Password is invalid: GymM displays the message MSG-19. 5-E3. New password is empty: GymM displays the message MSG-20. 5-E4. Password must be more than 8 characters: GymM displays the error message MSG-11. 5-E5. Password must contain at least 1 lowercase letter, 1 uppercase letter, 1 number, and 1 special character: GymM displays the error message MSG-12. 5-E6. Confirmed password is empty:		

	The system displays the message MSG-21. 5-E7. The re-enter password does not match with the password: The system displays message MSG-13.
<b>Business Rules:</b>	BR-01,BR-06,BR-07,BR-08,BR-11,BR-12

### 3.2.6 add account

The screenshot shows the 'Thêm mới người dùng' (Add New User) form. It includes fields for profile photo (with a placeholder '150 x 150'), first name ('Tên đầú' - Nhập tên người dùng), last name ('Email' - Nhập địa chỉ email người dùng), phone number ('Số điện thoại' - Nhập số điện thoại người dùng), gender ('Giới tính' - Chọn giới tính), date of birth ('Ngày sinh' - mm/dd/yyyy), password ('Mật khẩu' - masked input), role ('Chức vụ' - Chọn chức vụ người dùng), and address ('Địa chỉ' - Enter địa chỉ người dùng). A 'Tạo mới' (Create New) button is at the bottom. The page footer says 'Copyright © Brand 2023'.

<b>ID and Name:</b>	6 - add account	<b>Actor:</b>	Admin				
<b>Description:</b>	Admin create new a account as Staff or Trainer						
<b>Trigger:</b>	Have a new Staff or a new Trainer						
<b>Preconditions:</b>	PRE-6.1. Staff or Trainer do not have an account. PRE-6.2. Admin is signed into GymM. PRE-6.3. Admin is on the add account page.						
<b>Post-conditions:</b>	POST-6.1. System creates a new account.						
<b>Normal Flows:</b>	<table border="1"> <thead> <tr> <th>Actor actions</th> <th>System response</th> </tr> </thead> <tbody> <tr> <td>1. Admin clicks button "Thêm mới" 2. Admin enters the Name, Email, Password, age, phone, address, selects on the checkbox gender. 3. Admin clicks on the "Save" button. 4. The system checks the valid information. 6. The system creates a new Staff or Trainer that the Admin created. 7. The system displays the message "Bạn đã thêm tài khoản thành công". 8. System add new Staff or Trainer to list all Accounts.</td><td></td> </tr> </tbody> </table>			Actor actions	System response	1. Admin clicks button "Thêm mới" 2. Admin enters the Name, Email, Password, age, phone, address, selects on the checkbox gender. 3. Admin clicks on the "Save" button. 4. The system checks the valid information. 6. The system creates a new Staff or Trainer that the Admin created. 7. The system displays the message "Bạn đã thêm tài khoản thành công". 8. System add new Staff or Trainer to list all Accounts.	
Actor actions	System response						
1. Admin clicks button "Thêm mới" 2. Admin enters the Name, Email, Password, age, phone, address, selects on the checkbox gender. 3. Admin clicks on the "Save" button. 4. The system checks the valid information. 6. The system creates a new Staff or Trainer that the Admin created. 7. The system displays the message "Bạn đã thêm tài khoản thành công". 8. System add new Staff or Trainer to list all Accounts.							
<b>Alternative Flows:</b>	1. User clicks button "Thêm mới" on the "danh sách nhân viên" or "danh sách huấn luyện viên".						
<b>Exception Flows:</b>	7-E1. Password is empty: GymM displays an error message MSG-7. 7-E2. Email already exists: GymM displays an error message MSG-9. 7-E3. Password must be more than 8 characters: GymM displays the error message MSG-11.						

	<p>7-E4. Password must contain at least 1 lowercase letter, 1 uppercase letter, 1 number, and 1 special character: GymM displays the error message MSG-12.</p> <p>7-E5. Phone is empty: GymM displays an error message MSG-15.</p> <p>7-E6. Name is empty: GymM displays an error message MSG-22.</p> <p>7-E7. Name is invalid: GymM displays an error message MSG-23.</p> <p>7-E8. Email is invalid: GymM displays an error message MSG-25.</p> <p>7-E9. Age is empty: GymM displays an error message MSG-26.</p> <p>7-E10. Address is empty: GymM displays an error message MSG-27.</p>
<b>Business Rules:</b>	BR-01

### 3.2.7 add ticket

The screenshot shows the GymM software interface. On the left, there is a sidebar with navigation links: Brand, Người dùng hệ thống, Phản hồi, and a user profile for Hoàng Đức Lương. The main area has a title 'Danh sách vé' (Ticket List). Below it is a search bar with 'Show 10' and a dropdown menu. A modal window titled 'Thêm vé' (Add Ticket) is open in the center. It contains fields for 'Tên vé' (Ticket Name), 'Loại vé' (Ticket Type), 'Hạn sử dụng' (Usage Period), and 'Giá tiền' (Price). There is also a 'Tạo mới' (Create New) button. To the right of the modal is a table listing 10 existing tickets with columns: #, Tên vé, Loại vé, Hạn sử dụng, Giá tiền, Ngày tạo, and Thao tác (Actions). Each row shows a ticket name like 'Vé tập với PT 1 Năm', its type like 'Vé vào cửa', usage period like '1 Ngày', price like '2.000.000 đ', creation date like '2023-04-19', and actions like 'Đang bán' (On Sale) with edit and delete icons. At the bottom of the list, it says 'Tổng số bản ghi: 16' (Total records: 16).

<b>ID and Name:</b>	7 - add ticket		<b>Actor:</b>	Admin
<b>Description:</b>	admin create new Ticket			
<b>Trigger:</b>	Have a new Ticket			
<b>Preconditions:</b>	PRE-7.1. Admin is signed into GymM. PRE-7.2. Admin is on the add Ticket page.			
<b>Post-conditions:</b>	POST-7.1. System creates a new Ticket.			
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>		
	1. Admin clicks button "Thêm mới" 2. Admin enters the Type, Price, Ticket Name, Total_days. 3. Admin clicks on the "Save" button. 4. The system checks the valid information. 6. The system creates a new Ticket that the Admin created. 7. The system displays the message "Bạn đã thêm mới Ticket thành công". 8. System add new Ticket to list all Ticket.			

<b>Alternative Flows:</b>	1. User clicks button “Thêm mới” on the “danh sách Ticket”
<b>Exception Flows:</b>	<p>8-E1. Type empty: GymM displays an error message MSG-28.</p> <p>8-E2. Type already exists: GymM displays an error message MSG-29.</p> <p>8-E3. Price empty: GymM displays an error message MSG-30.</p> <p>8-E4. Total days empty: GymM displays an error message MSG-33.</p> <p>8-E5. Total days is invalid: GymM displays an error message MSG-34.</p> <p>8-E6. Price is invalid: GymM displays an error message MSG-35.</p>
<b>Business Rules:</b>	BR-01

### 3.2.8 add ticket Trainer

<b>ID and Name:</b>	8 - add ticket Trainer	<b>Actor:</b>	Admin
<b>Description:</b>	admin create new Ticket Trainer		
<b>Trigger:</b>	Have a new Ticket Trainer		
<b>Preconditions:</b>	PRE-8.1. Admin is signed into GymM. PRE-8.2. Admin is on the add Ticket Trainer page.		
<b>Post-conditions:</b>	POST-8.1. System creates a new Ticket Trainer.		
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>	
	1. Admin clicks button “Thêm mới” 2. Admin enters the Type, Price, Ticket Name, Total_days. 3. Admin clicks on the “Save” button. 4. The system checks the valid information. 6. The system creates a new Ticket Trainer that the Admin created. 7. The system displays the message "Bạn đã thêm mới Ticket Trainer thành công". 8. System add new Ticket Trainer to list all Ticket Trainer.		
<b>Alternative Flows:</b>	1. User clicks button “Thêm mới” on the “danh sách Ticket Trainer”		

Exception Flows:	<p>10-E1. Type empty: GymM displays an error message MSG-28.</p> <p>10-E2. Type already exists: GymM displays an error message MSG-29.</p> <p>10-E3. Price empty: GymM displays an error message MSG-30.</p> <p>10-E4. Note empty: GymM displays an error message MSG-31.</p> <p>10-E5. Total days empty: GymM displays an error message MSG-33.</p> <p>10-E6. Total days is invalid: GymM displays an error message MSG-34.</p> <p>10-E7. Price is invalid: GymM displays an error message MSG-35.</p>
Business Rules:	BR-01

### 3.2.9 add Trainer for ticket Trainer

#	Tên vé	Tên Huấn luyện viên	Giá vé	Thao tác
1	99	Vương Hà	500.009 đ	<span style="color: red;">X</span>
2	2 tuần			
3	Vé tập với PT 1 Năm			
4	Vé tập 1 tuần			
5	Vé tập thử với Huấn Luyện Viên			
6	Vé tập thử với Trainer			
7	Vé tập với PT tháng	Vé thuê huấn luyện viên	123 đ - 456 đ	30 ngày <span style="color: green;">Đang bán</span> 2023-04-03
8	Vé tập với PT 1 ngày	Vé thuê huấn luyện viên	20.000 đ	1 ngày <span style="color: green;">Đang bán</span> 2023-03-31
9	Vé Tháng	Vé vào cửa	300.000 đ	30 ngày <span style="color: green;">Đang bán</span> 2023-03-05
10	Vé Ngày	Vé vào cửa	12.000 đ	1 ngày <span style="color: green;">Đang bán</span> 2023-03-01

ID and Name:	9 - add Trainer for ticket Trainer	Actor:	Admin				
Description:	admin create new Ticket Trainer						
Trigger:	Have a new Ticket Trainer						
Preconditions:	PRE-9.1. Admin is signed into GymM. PRE-9.2. Admin is on the add Ticket Trainer page.						
Post-conditions:	POST-9.1. System creates a new Ticket Trainer.						
Normal Flows:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Actor actions</th> <th style="text-align: left;">System response</th> </tr> </thead> <tbody> <tr> <td>           1. Admin clicks button "Thêm mới"            2. Admin enters the Price, Ticket Name.            3. Admin clicks on the "Lưu" button.            4. The system checks the valid information.            6. The system creates a new Ticket Trainer that the Admin created.            7. The system displays the message "Bạn đã thêm mới Trainer thành công".            8. System add new Ticket Trainer to list all Ticket Trainer.         </td><td></td></tr> </tbody> </table>	Actor actions	System response	1. Admin clicks button "Thêm mới" 2. Admin enters the Price, Ticket Name. 3. Admin clicks on the "Lưu" button. 4. The system checks the valid information. 6. The system creates a new Ticket Trainer that the Admin created. 7. The system displays the message "Bạn đã thêm mới Trainer thành công". 8. System add new Ticket Trainer to list all Ticket Trainer.			
Actor actions	System response						
1. Admin clicks button "Thêm mới" 2. Admin enters the Price, Ticket Name. 3. Admin clicks on the "Lưu" button. 4. The system checks the valid information. 6. The system creates a new Ticket Trainer that the Admin created. 7. The system displays the message "Bạn đã thêm mới Trainer thành công". 8. System add new Ticket Trainer to list all Ticket Trainer.							
Alternative Flows:	1. User clicks button "Thêm mới" on the "danh sách Ticket Trainer"						

<b>Exception Flows:</b>	10-E1. Type empty: GymM displays an error message MSG-28. 10-E2. Type already exists: GymM displays an error message MSG-29. 10-E3. Price empty: GymM displays an error message MSG-30. 10-E4. Note empty: GymM displays an error message MSG-31. 10-E5. Total days empty: GymM displays an error message MSG-33. 10-E6. Total days is invalid: GymM displays an error message MSG-34. 10-E7. Price is invalid: GymM displays an error message MSG-35.
<b>Business Rules:</b>	BR-01

### 3.2.10 add ticket class

The screenshot shows the GymM application's interface for managing ticket classes. On the left, there is a sidebar with navigation links like 'Brand', 'Người dùng hệ thống', and 'Hỗ trợ'. The main area has a table titled 'Danh sách vé' (Ticket Class List) with columns for '#', 'Tên vé', and a list of 10 items from 'Vé tập với PT 1 Năm' to 'Vé Ngày'. A modal window titled 'Thêm lớp' (Add Class) is open, prompting for class details: Name (Nhập tên lớp học), Time (Nhập thời gian), Start Date (Nhập ngày bắt đầu), Trainer (Nhập tên huấn luyện viên), Members (Nhập số lượng), and Price (Nhập giá tiền). Below the modal is a table of existing classes with columns for Day (thứ), Creation Date (Ngày tạo), and Actions (Thao tác). The actions column includes icons for edit and delete.

<b>ID and Name:</b>	10 - add ticket class	<b>Actor:</b>	Admin																
<b>Description:</b>	admin create ticket class																		
<b>Trigger:</b>	Have a new ticket class																		
<b>Preconditions:</b>	PRE-10.1. Admin is signed into GymM. PRE-10.2. Admin is on the add ticket class page.																		
<b>Post-conditions:</b>	POST-10.1. System creates a new ticket class.																		
<b>Normal Flows:</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Actor actions</th> <th style="text-align: left;">System response</th> </tr> </thead> <tbody> <tr> <td>1. Admin clicks button “Thêm mới”</td> <td></td> </tr> <tr> <td>2. Admin enters the Price, Class name, time, Trainer name, members, calendar.</td> <td></td> </tr> <tr> <td>3. Admin clicks on the “Thêm lớp học” button.</td> <td></td> </tr> <tr> <td>4. The system checks the valid information.</td> <td></td> </tr> <tr> <td>6. The system creates a new Ticket Trainer that the Admin created.</td> <td></td> </tr> <tr> <td>7. The system displays the message "Bạn đã thêm mới lớp học thành công".</td> <td></td> </tr> <tr> <td>8. System add new Ticket Trainer to list all Ticket Trainer.</td> <td></td> </tr> </tbody> </table>			Actor actions	System response	1. Admin clicks button “Thêm mới”		2. Admin enters the Price, Class name, time, Trainer name, members, calendar.		3. Admin clicks on the “Thêm lớp học” button.		4. The system checks the valid information.		6. The system creates a new Ticket Trainer that the Admin created.		7. The system displays the message "Bạn đã thêm mới lớp học thành công".		8. System add new Ticket Trainer to list all Ticket Trainer.	
Actor actions	System response																		
1. Admin clicks button “Thêm mới”																			
2. Admin enters the Price, Class name, time, Trainer name, members, calendar.																			
3. Admin clicks on the “Thêm lớp học” button.																			
4. The system checks the valid information.																			
6. The system creates a new Ticket Trainer that the Admin created.																			
7. The system displays the message "Bạn đã thêm mới lớp học thành công".																			
8. System add new Ticket Trainer to list all Ticket Trainer.																			
<b>Alternative Flows:</b>	1. User clicks button “Thêm lớp học” on the “danh sách lớp học”																		
<b>Exception Flows:</b>	10-E1. Type empty: GymM displays an error message MSG-28. 10-E2. Type already exists: GymM displays an error message MSG-29.																		

	<p>10-E3. Price empty: GymM displays an error message MSG-30.</p> <p>10-E4. Note empty: GymM displays an error message MSG-31.</p> <p>10-E5. Total days empty: GymM displays an error message MSG-33.</p> <p>10-E6. Total days is invalid: GymM displays an error message MSG-34.</p> <p>10-E7. Price is invalid: GymM display message MSG-35.s an error m</p>
<b>Business Rules:</b>	BR-01

### 3.2.11 list tickets

#	Tên vé	Loại vé	Giá vé	Hạn sử dụng	Trạng thái	Ngày tạo	Thao tác
1	99	Vé vào cửa	99.999 đ	1 ngày	Đang bán	2023-04-19	
2	2 tuần	Vé vào cửa	50.000 đ	14 ngày	Đang bán	2023-04-18	
3	Vé tập với PT 1 Năm	Vé vào cửa	2.000.000 đ	365 ngày	Đang bán	2023-04-05	
4	Vé tập 1 tuần	Vé tham gia lớp học	50.000 đ - 100.000 đ	7 ngày	Đang bán	2023-04-05	
5	Vé tập thử với Huấn Luyện Viên	Vé thuê huấn luyện viên	2.300 đ	7 ngày	Đang bán	2023-04-05	
6	Vé tập thử với Trainer	Vé thuê huấn luyện viên	40.000 đ - 50.000 đ	1 ngày	Đang bán	2023-04-05	
7	Vé tập với PT tháng	Vé thuê huấn luyện viên	123 đ - 456 đ	30 ngày	Đang bán	2023-04-03	
8	Vé tập với PT 1 ngày	Vé thuê huấn luyện viên	20.000 đ	1 ngày	Đang bán	2023-03-31	
9	Vé Tháng	Vé vào cửa	300.000 đ	30 ngày	Đang bán	2023-03-05	
10	Vé Ngày	Vé vào cửa	12.000 đ	1 ngày	Đang bán	2023-03-01	

Tổng số bản ghi: 16

<b>ID and Name:</b>	11 - list ticket	<b>Actor:</b>	Admin		
<b>Description:</b>	Admin view the list ticket.				
<b>Trigger:</b>	When the actor clicks "Phòng tập" on the header of GymM Website, then clicks on "Quản lý vé"				
<b>Preconditions:</b>	PRE-11.1. Admin is logged into GymM. PRE-11.2. Click "Phòng tập" on the GymM Website, then click on "Quản lý vé".				
<b>Post-conditions:</b>	POST-11.1. The system displays the list of ticket.				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. Click "Phòng tập" on the GymM Website, then click on "Quản lý vé". 2. The system display list ticket.				
<b>Alternative Flows:</b>	1. Admin search on search input on navigation bar.				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01				

### 3.2.12 List staff account

Danh sách nhân viên

Thêm mới nhân viên

Trạng thái: Dang hoạt động

Tìm kiếm

#	Email	Tên nhân viên	SĐT	Trạng thái	Thao tác
1	Staff@gmail.com Ngày tạo: 2023-03-19	Luong Hoang	0857298896	● Hoạt động	

Tổng số bản ghi: 1

1

Copyright © Brand 2023

ID and Name:	12 - list staff account	Actor:	Admin		
Description:	Admin view the list staff account.				
Trigger:	When the actor clicks “ Người dùng hệ thống” on the header of GymM Website, then clicks on "Danh sách nhân viên"				
Preconditions:	PRE-11.1. Admin is logged into GymM. PRE-11.2. Click “Người dùng hệ thống” on the GymM Website, then click on "Danh sách nhân viên".				
Post-conditions:	POST-12.1. The system displays the list of staff account.				
Normal Flows:	Actor actions	System response			
	1. Click “ Người dùng hệ thống” on the GymM Website, then click on "Danh sách nhân viên". 2. The system display list of staff account.				
Alternative Flows:	1. Admin search on search input on navigation bar.				
Exception Flows:	N/A				
Business Rules:	BR-01				

### 3.2.13 View staff detail

The screenshot shows a web-based application interface for 'GYM MASTER'. At the top, there is a navigation bar with icons for 'Người dùng hệ thống' (User), 'Phòng tập' (Gym), 'Số quỹ' (Fund), and a user profile for 'Hoàng Đức Lương'. Below the navigation bar, a modal window titled 'Danh sách' (List) is displayed. This modal contains a table with staff information:

Họ và tên	Luong Hoang
Ngày sinh	2023-03-19
Số điện thoại	0857298896
Ngày bắt đầu làm việc	2023-03-19
Trạng thái tài khoản	<span style="color: green;">• Hoạt động</span>

Below the table are two buttons: 'Xóa nhân viên' (Delete staff) in red and 'Chỉnh sửa thông tin' (Edit information) in blue.

At the bottom right of the modal, there is a link 'Quay trở lại danh sách' (Return to list). The footer of the page displays 'Copyright © Brand 2023'.

localhost:8080/admin/employee/2#

<b>ID and Name:</b>	13 - View staff detail	<b>Actor:</b>	Admin		
<b>Description:</b>	Admin view the staff detail.				
<b>Trigger:</b>	When the actor clicks “eye icon” on the row of each record				
<b>Preconditions:</b>	PRE-13.1. Admin is logged into GymM. PRE-13.2. Click “eye icon” on the row of each record.				
<b>Post-conditions:</b>	POST-13.1. The system displays the detail of staff.				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. Click “eye icon” on the row of each record. 2. The system displays the detail of staff.				
<b>Alternative Flows:</b>	1. Back to list staff account 1.1. Click “Quay trở lại danh sách” 2. Delete staff. 2.1. Click “Xóa nhân viên” 3. Update staff information 3.1. Click “Chỉnh sửa thông tin”				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01				

### 3.2.14 List trainer account

<b>ID and Name:</b>	14 - List trainer account	<b>Actor:</b>	Admin
<b>Description:</b>	Admin view the list staff account.		
<b>Trigger:</b>	When the actor clicks “Người dùng hệ thống” on the header of GymM Website, then clicks on "Danh sách huấn luyện viên"		
<b>Preconditions:</b>	PRE-14.1. Admin is logged into GymM. PRE-14.2. Click “Người dùng hệ thống” on the GymM Website, then click on "Danh sách huấn luyện viên".		
<b>Post-conditions:</b>	POST-14.1. The system displays the list of trainer account.		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. Admin is logged into GymM. 2. Click “Người dùng hệ thống” on the GymM Website, then click on "Danh sách huấn luyện viên".	<b>System response</b> 3. The system displays the list of trainer account.	
<b>Alternative Flows:</b>	1. Admin search on search input on navigation bar.		
<b>Exception Flows:</b>	N/A		
<b>Business Rules:</b>	BR-01		

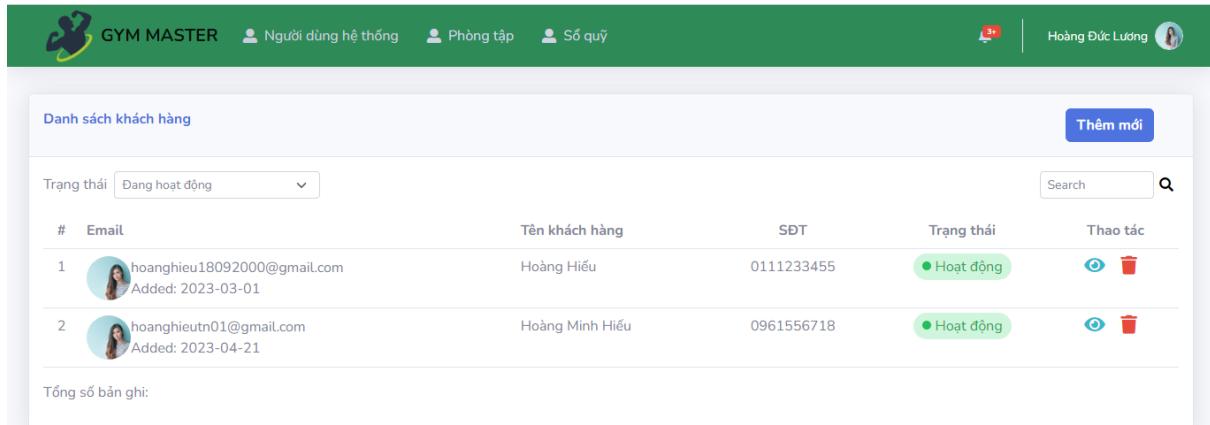
### 3.2.15 View trainer detail

The screenshot shows the Gym Master application interface. At the top, there is a navigation bar with the logo 'GYM MASTER', user roles ('Người dùng hệ thống', 'Phòng tập', 'Số quỹ'), and a notification badge with the number '3'. On the right, a user profile for 'Hoàng Đức Lương' is shown. Below the header, the main content area has a title 'Thông tin của huấn luyện viên' (Trainer Information) and a button 'Quay trở lại danh sách' (Back to list). The left side contains a table with basic personal details: Họ và tên (Name), Ngày sinh (Date of birth), Số điện thoại (Phone number), and Ngày bắt đầu làm việc (Start date). There is also a 'Trang thái tài khoản' (Account status) section with a 'Hoạt động' (Active) button. The right side shows a table of training sessions with columns: # (Record ID), Tên lớp (Class name), Số học viên (Number of students), Hạn dùng (Valid until), Ngày tạo (Created date), and Thao tác (Actions). Two rows are listed: 'Vé tập 1 tuần lớp PT Lương' and 'Vé tập thử lớp PT Lương'. A note 'Tổng số bản ghi:' (Total records) is present above the table. At the bottom, there are two buttons: 'Xóa nhân viên' (Delete staff) and 'Chỉnh sửa thông tin' (Edit information). The footer of the page includes the copyright notice 'Copyright © Brand 2023'.

localhost:8080/admin/trainer/3#

<b>ID and Name:</b>	15 - View trainer detail	<b>Actor:</b>	Admin		
<b>Description:</b>	Admin view the trainer detail.				
<b>Trigger:</b>	When the actor clicks “eye icon” on the row of each record				
<b>Preconditions:</b>	PRE-15.1. Admin is logged into GymM. PRE-15.2. Click “eye icon” on the row of each record.				
<b>Post-conditions:</b>	POST-15.1. The system displays the detail of trainer.				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. Click “eye icon” on the row of each record.				
	2. The system displays the detail of trainer.				
<b>Alternative Flows:</b>	1. Back to list trainer account 1.1. Click “Quay trở lại danh sách” 2. Delete staff. 2.1. Click “Xóa nhân viên” 3. Update staff information 3.1. Click “Chỉnh sửa thông tin”				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01				

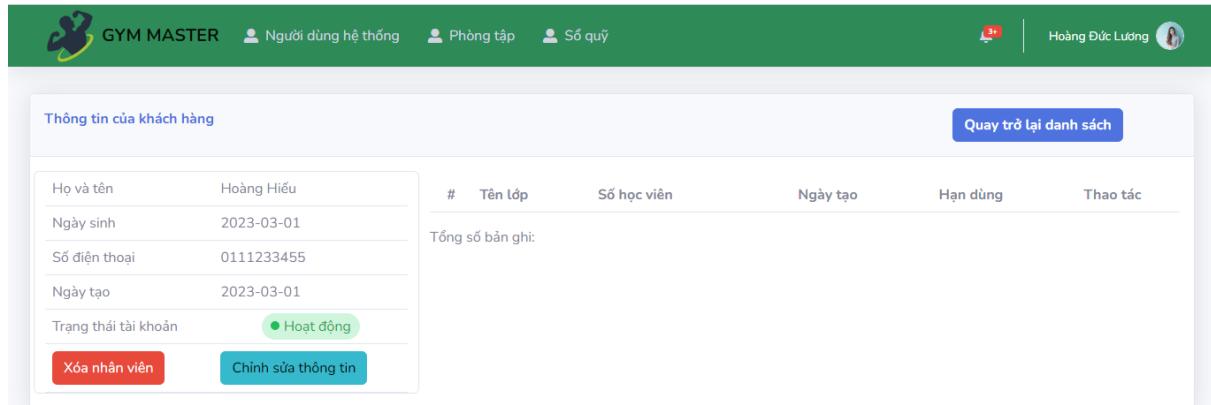
### 3.2.16 List customer account



The screenshot shows a web application interface for 'GYM MASTER'. At the top, there is a navigation bar with icons for 'Người dùng hệ thống' (User), 'Phòng tập' (Gym), 'Số quý' (Premium), a notification bell with '3+' notifications, and a user profile for 'Hoàng Đức Lương'. Below the navigation bar is a search bar with placeholder text 'Danh sách khách hàng' (Customer list) and a 'Thêm mới' (Add new) button. A dropdown menu for 'Trạng thái' (Status) is set to 'Đang hoạt động' (Active). The main content area displays a table with two rows of customer data. Each row includes a small profile picture, the email address, the customer's name, their phone number, their status (both are 'Hoạt động' (Active)), and two action buttons: a blue eye icon and a red trash bin icon. Below the table, a note says 'Tổng số bản ghi:' followed by a blank space. At the bottom right of the page, there is a copyright notice: 'Copyright © Brand 2023'.

<b>ID and Name:</b>	16 - List customer account	<b>Actor:</b>	Admin		
<b>Description:</b>	Admin view the list customer account.				
<b>Trigger:</b>	When the actor clicks “Người dùng hệ thống” on the header of GymM Website, then clicks on "Danh sách khách hàng"				
<b>Preconditions:</b>	PRE-16.1. Admin is logged into GymM. PRE-16.2. Click “Người dùng hệ thống” on the GymM Website, then click on "Danh sách khách hàng".				
<b>Post-conditions:</b>	POST-16.1. The system displays the list of customer account.				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. Admin is logged into GymM. 2. Click “Người dùng hệ thống” on the GymM Website, then click on "Danh sách khách hàng".	3. The system displays the list of customer account.			
<b>Alternative Flows:</b>	1. Admin search on search input on navigation bar.				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01				

### 3.2.17 View customer detail



The screenshot shows a web-based application for 'GYM MASTER'. At the top, there is a navigation bar with icons for 'Người dùng hệ thống' (User), 'Phòng tập' (Gym), 'Số quý' (Premium), a notification bell with 3 notifications, and a user profile for 'Hoàng Đức Lương'.

The main content area is titled 'Thông tin của khách hàng' (Customer Information). It displays a table with customer details:

Họ và tên	Hoàng Hiếu
Ngày sinh	2023-03-01
Số điện thoại	0111233455
Ngày tạo	2023-03-01

Below the table, there is a button labeled 'Hoạt động' (Activity) with a green dot icon. At the bottom of the table are two buttons: 'Xóa nhân viên' (Delete staff) in red and 'Chỉnh sửa thông tin' (Edit information) in blue.

To the right of the table, there is a section titled 'Tổng số bản ghi:' (Total number of records:). A table header is shown with columns: #, Tên lớp (Class name), Số học viên (Number of students), Ngày tạo (Created date), Hạn dùng (Expiration date), and Thao tác (Action).

At the bottom right of the page, there is a copyright notice: 'Copyright © Brand 2023'.

<b>ID and Name:</b>	17 - View customer detail	<b>Actor:</b>	Admin		
<b>Description:</b>	Admin view the customer detail.				
<b>Trigger:</b>	When the actor clicks “eye icon” on the row of each record				
<b>Preconditions:</b>	PRE-17.1. Admin is logged into GymM. PRE-17.2. Click “eye icon” on the row of each record.				
<b>Post-conditions:</b>	POST-17.1. The system displays the detail of customer.				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. Click “eye icon” on the row of each record. 2. The system displays the detail of customer.				
<b>Alternative Flows:</b>	1. Back to list trainer account 1.1. Click “Quay trở lại danh sách” 2. Delete staff. 2.1. Click “Xóa nhân viên” 3. Update staff information 3.1. Click “Chỉnh sửa thông tin”				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01				

### 3.2.18 Manage class

<b>ID and Name:</b>	18 - Manage class	<b>Actor:</b>	Admin
<b>Description:</b>	Admin view the list of classes detail.		
<b>Trigger:</b>	When the actor clicks "Phòng tập" on the header of GymM Website, then clicks on "Quản lý lớp học"		
<b>Preconditions:</b>	PRE-18.1. Admin is logged into GymM. PRE-18.2. Click "Phòng tập" on the GymM Website, then click on "Quản lý lớp học".		
<b>Post-conditions:</b>	POST-18.1. The system displays the list of classes.		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. Admin is logged into GymM. 2. Click "Phòng tập" on the GymM Website, then click on "Quản lý lớp học". .	<b>System response</b> 3. The system displays the list of classes.	
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	N/A		
<b>Business Rules:</b>	BR-01		

### 3.2.19 Operation history

Lịch sử hoạt động			
Loại hoạt động		Nội dung	Ngày thực hiện
#	Mảng tác động		
1	Người dùng	Đăng nhập thành công	2023-04-27 14:52:38
2	Người dùng	Đăng nhập thành công	2023-04-27 14:52:38
3	Người dùng	Đăng nhập thành công	2023-04-24 13:20:19
4	Người dùng	Đăng nhập thành công	2023-04-23 20:36:59
5	Người dùng	Đăng nhập thành công	2023-04-23 20:36:59
6	Người dùng	Đăng nhập thành công	2023-04-23 20:34:14

<b>ID and Name:</b>	19 - operation history	<b>Actor:</b>	Admin, Staff, Trainer, Customer
<b>Description:</b>	This function allows users to view operation history from "Lịch sử hoạt động" screen		
<b>Trigger:</b>	When the actor clicks "Avatar icon" on the top right of the navigation bar of GymM Website, then clicks on "Lịch sử hoạt động"		
<b>Preconditions:</b>	PRE-19.1. Users is logged into GymM. PRE-19.2. The users clicks on the avatar icon on the top right of the navigation bar. PRE-19.3. The user clicks on the "Lịch sử hoạt động" button.		
<b>Post-conditions:</b>	POST-19.1. The system displays the list of operation history.		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. The users clicks on the avatar icon on the top right of the navigation bar. 2. The user clicks on the "Lịch sử hoạt động" button.	<b>System response</b>	3. The system displays the list of operation history.
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	N/A		
<b>Business Rules:</b>	BR-01		

### 3.2.20 Home page

The screenshot shows the Gym Master website's home page. At the top, there is a navigation bar with links: Trang chủ (Home), Vé Viên (Ticket), Huân Luyện (Coaching), Lớp học (Classes), Lịch tập (Schedule), Sản phẩm (Products), Check In (Check-in), a shopping cart icon, and a user profile for 'Hoàng Hiếu'.

The main content area is titled 'Danh sách vé' (List of Tickets) and displays three types of tickets:

- Vé Ngày**: Shows a person lifting weights. Details: - Số người đã tham gia: - loại vé: vé tập và sử dụng phòng GYM - Thời gian sử dụng: 1 Ngày - Giá vé: 12000.0
- vé Tuần**: Shows a person stretching. Details: - Số người đã tham gia: - loại vé: vé tập và sử dụng phòng GYM - Thời gian sử dụng: 7 Ngày - Giá vé: 100000.0
- Vé Tháng**: Shows a person lifting weights. Details: - Số người đã tham gia: - loại vé: vé tập và sử dụng phòng GYM - Thời gian sử dụng: 30 Ngày - Giá vé: 300000.0

The URL in the address bar is localhost:8080/customer/home.

<b>ID and Name:</b>	20 - home page	<b>Actor:</b>	Customer		
<b>Description:</b>	This function allows customer to view list of training tickets type				
<b>Trigger:</b>	When the actor login successful, system will redirect to home screen				
<b>Preconditions:</b>	PRE-20.1. Users is logged into GymM.				
<b>Post-conditions:</b>	POST-20.1. The system displays the list of training tickets type.				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. The customer login to the system..	2. The system displays the list of training tickets type.			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01				

### 3.2.21 Buy training tickets type

The screenshot shows the Gym Master website's page for buying training tickets. The title is 'Danh sách vé' (List of Tickets).

The page displays several ticket options:

- Vé Ngày**: Shows a person lifting weights. Details: - Số người đã tham gia: - loại vé: vé tập và sử dụng phòng GYM - Thời gian sử dụng: 1 Ngày - Giá vé: 12000.0. Includes a 'MUA VÉ NGÀY' button.
- vé Tuần**: Shows a person stretching. Details: - Số người đã tham gia: - loại vé: vé tập và sử dụng phòng GYM - Thời gian sử dụng: 7 Ngày - Giá vé: 100000.0. Includes a 'MUA VÉ NGÀY' button.
- Vé Tháng**: Shows a person lifting weights. Details: - Số người đã tham gia: - loại vé: vé tập và sử dụng phòng GYM - Thời gian sử dụng: 30 Ngày - Giá vé: 300000.0. Includes a 'MUA VÉ NGÀY' button.
- Vé tập với PT 1 Năm**: Shows a person stretching. Details: - Số người đã tham gia: - loại vé: vé tập và sử dụng phòng GYM - Thời gian sử dụng: 365 Ngày - Giá vé: 2000000.0.
- 2 tuần**: Shows a person stretching. Details: - Số người đã tham gia: - loại vé: vé tập và sử dụng phòng GYM - Thời gian sử dụng: 14 Ngày - Giá vé: 50000.0.
- 23 tuần**: Shows a person lifting weights. Details: - Số người đã tham gia: - loại vé: vé tập và sử dụng phòng GYM - Thời gian sử dụng: 1 Ngày - Giá vé: 3000000.0.

<b>ID and Name:</b>	21 - buy training tickets type	<b>Actor:</b>	Customer		
<b>Description:</b>	This function allows customer to buy training tickets type from "home page" screen				
<b>Trigger:</b>	When the actor clicks "Trang chủ" on the navigation bar of GymM Website				
<b>Preconditions:</b>	PRE-21.1. The customer click "Trang chủ" on the navigation bar PRE-21.2. The customer clicks on the "Mua vé ngay" button.				
<b>Post-conditions:</b>	POST-21.1. The system display success message				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. The customer click "Trang chủ" on the navigation bar. 2. The customer clicks on the "Mua vé ngay" button.	3. The system display success message			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01				

### 3.2.22 View PT ticket

The screenshot shows the Gym Master website's navigation bar with links for Home, Tickets, Trainer, Classes, Schedule, Products, Check-in, Notifications, Cart, and Profile. The main content area is titled 'Tập với PT' and displays three types of PT sessions with their respective details and images.

Vé tập với PT 1 ngày	Vé tập với PT 3 tháng	Vé tập với PT tháng
- Số người tham gia: - loại vé - Thời gian sử dụng: 1 Ngày - Giá vé: 20.000 đ - 20.000 đ - Có hỗ trợ huấn luyện viên cá nhân	- Số người tham gia: - loại vé - Thời gian sử dụng: 90 Ngày - Giá vé: 2.000 đ - 2.000 đ - Có hỗ trợ huấn luyện viên cá nhân	- Số người tham gia: - loại vé - Thời gian sử dụng: 30 Ngày - Giá vé: 123 đ - 456 đ - Có hỗ trợ huấn luyện viên cá nhân

<b>ID and Name:</b>	22 - view PT ticket	<b>Actor:</b>	Customer		
<b>Description:</b>	This function allows customer to view PT ticket from "Tập với PT" screen				
<b>Trigger:</b>	When the actor clicks "Vé" on the navigation bar of GymM Website, then clicks on "Vé tập với PT"				
<b>Preconditions:</b>	PRE-22.1. The customer clicks "Vé" on the navigation bar PRE-22.2. The customer clicks on the "Vé tập với PT" in dropdown menu.				
<b>Post-conditions:</b>	POST-22.1. The system displays the list of PT tickets.				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. The customer clicks "Vé" on the navigation bar 2. The customer clicks on the "Vé tập với PT" in dropdown menu.	3. The system displays the list of PT tickets.			
<b>Alternative Flows:</b>	1. Go to home page 1.1. Click "có" button when customer buy training tickets type 1.2. Click "có" button on modal question buy PT ticket				
<b>Exception Flows:</b>	N/A				

<b>ID and Name:</b>	22 - view PT ticket	<b>Actor:</b>	Customer
<b>Business Rules:</b>	BR-01		

### 3.2.23 Buy PT ticket

<b>ID and Name:</b>	23 - buy PT ticket	<b>Actor:</b>	Customer
<b>Description:</b>	This function allows customer to buy PT ticket from "Tập với PT" screen		
<b>Trigger:</b>	When the actor clicks "Mua vé ngay" button		
<b>Preconditions:</b>	PRE-23.1. The customer click "Mua vé ngay" button on the bottom of ticket detail in "Tập với PT" screen PRE-23.2. Customers choose the PT information they want to order PRE-23.3. The user clicks on the "Mua vé ngay" button.		
<b>Post-conditions:</b>	POST-23.1. The system displays successful message.		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. The customer click "Mua vé ngay" button on the bottom of ticket detail in "Tập với PT" screen 2. Customers choose the PT information they want to order 3. The user clicks on the "Mua vé ngay" button.	<b>System response</b> 4. The system displays successful message.	
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	23-E1. not choose information PT to buy ticket GymM displays an error message MSG-49.		
<b>Business Rules:</b>	BR-01		

### 3.2.24 View class ticket

**Lớp học**

<b>Vé tập thử</b> - Số người tham gia: - loại vé: Vé tập với lớp - Thời gian sử dụng: 1 Ngày - Giá vé: 12.000 đ - 12.000 đ - Có hỗ trợ huấn luyện viên cá nhân	<b>Vé tập 1 tuần</b> - Số người tham gia: - loại vé: Vé tập với lớp - Thời gian sử dụng: 7 Ngày - Có hỗ trợ huấn luyện viên cá nhân	<b>2 tuần</b> - Số người tham gia: - loại vé: Vé tập với lớp - Thời gian sử dụng: 7 Ngày - Có hỗ trợ huấn luyện viên cá nhân
---	---	--

<b>ID and Name:</b>	24 - view list class ticket	<b>Actor:</b>	Customer
<b>Description:</b>	This function allows customer to view class ticket from "Lớp học" screen		
<b>Trigger:</b>	When the actor clicks "Vé" on the navigation bar of GymM Website, then clicks on "Vé lớp"		
<b>Preconditions:</b>	PRE-24.1. The customer clicks "Vé" on the navigation bar PRE-24.2. The customer clicks on the "Vé lớp" in dropdown menu.		
<b>Post-conditions:</b>	POST-24.1. The system displays the list of class ticket.		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. The customer clicks "Vé" on the navigation bar 2. The customer clicks on the "Vé lớp" in dropdown menu.	<b>System response</b> 3. The system displays the list of class ticket.	
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	N/A		
<b>Business Rules:</b>	BR-01		

### 3.2.25 Buy class ticket

Mua vé

Vé tập 1 tuần

Tổng số ngày: 7 Ngày

Ngày bắt đầu: dd/mm/yyyy

Ngày kết thúc: dd/mm/yyyy

Chọn HLV: Chọn lớp

PT:

Số người đã tham gia:

Thời gian tập:

Giá gói:

<b>ID and Name:</b>	25 - buy class ticket	<b>Actor:</b>	Customer
<b>Description:</b>	This function allows customer to buy class ticket from "Lớp học" screen		
<b>Trigger:</b>	When the actor clicks "Mua vé ngay" button		
<b>Preconditions:</b>	PRE-25.1. The customer click "Mua vé ngay" button on the bottom of ticket detail in "Lớp học" screen PRE-25.2. Customers choose the class information they want to order PRE-25.3. The user clicks on the "Mua vé ngay" button.		
<b>Post-conditions:</b>	POST-25.1. The system displays successful message.		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. The customer click "Mua vé ngay" button on the bottom of ticket detail in "Tập với PT" screen 2. Customers choose the PT information they want to order 3. The user clicks on the "Mua vé ngay" button.	<b>System response</b>	4. The system displays successful message.
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	25-E1. not choose information class to buy ticket GymM displays an error message MSG-50.		
<b>Business Rules:</b>	BR-01		

### 3.2.26 View PT information

**Huấn Luyện Viên**

**Lương**

- Email: TrainerLuong@gmail.com
- Phone: 0811145699
- gender: Pt Nam
- Address: Hưng Yên
- DOB: 2023-03-01
- Năm kinh nghiệm:

**Vương Hạnh**

- Email: luong@gmail.com
- Phone: 0831231233
- gender: Pt Nữ
- Address: Hưng Yên
- DOB: 1212-12-12
- Năm kinh nghiệm:

ID and Name:	26 - view PT information	Actor:	Customer		
Description:	This function allows customer to view PT information from "Huấn Luyện Viên" screen				
Trigger:	When the actor click "Huấn luyện viên" on the navigation bar of GymM Website				
Preconditions:	PRE-26.1. The customer click "Huấn luyện viên" on the navigation bar PRE-26.2. The user clicks on the "Read more" button.				
Post-conditions:	POST-26.1. The system displays modal PT information.				
Normal Flows:	Actor actions	System response			
	1. The customer click "Huấn luyện viên" on the navigation bar 2. The user clicks on the "Read more" button.	3. The system displays modal PT information.			
Alternative Flows:	N/A				
Exception Flows:	N/A				
Business Rules:	BR-01				

### 3.2.27 View class

Show	10					
#	Tên Lớp học	Tên PT	Giá thuê	Thời hạn	Tình trạng thanh toán	Ngày thuê
1	Vé tập 1 tuần lớp PT Lương	Lương	100.000 đ	2023-04-09 - 2023-04-15	Đang bán / còn hạn	2023-04-16 Xem chi tiết
2	Vé tập thử lớp PT Lương	Lương	12.000 đ	2023-04-08 - 2023-04-09	Đang bán / còn hạn	2023-04-15 Xem chi tiết

<b>ID and Name:</b>	27 - view class	<b>Actor:</b>	Customer		
<b>Description:</b>	This function allows customer to view class				
<b>Trigger:</b>	When the actor click "Lớp học" on the navigation bar of GymM Website				
<b>Preconditions:</b>	PRE-27.1. The customer click "Lớp học" on the navigation bar				
<b>Post-conditions:</b>	POST-27.1. The system displays list of class.				
	<b>Actor actions</b>	<b>System response</b>			
<b>Normal Flows:</b>	1. The customer click "Lớp học" on the navigation bar	2. The system displays a list of class.			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01				

### 3.2.28 Customer View class detail

The screenshot shows a web application interface for 'GYM MASTER'. At the top, there's a navigation bar with links like 'Trang chủ', 'Vé', 'Huấn Luyện Viên', 'Lớp học', 'Lịch tập', 'Sản phẩm', and 'Check In'. On the right side of the header, there's a user profile for 'Hoàng Hiếu'. Below the header, there's a large white box containing class details. The details include:  
 - Tên lớp: Vé tập 1 tuần lớp PT Lương  
 - Tên PT: Lương  
 - Giá thuê: 100.000 ₫  
 - Thời Hạn: 2023-04-20 - 2023-05-21  
 - Trạng thái lớp: Lớp chưa bắt đầu - Đang bán / còn hạn  
 - Thời gian: 10h15 - 11h30  
 - Số thành viên lớp: 1 / 5      [Danh sách lớp](#)  
 - Lịch tập: monday , wednesday , friday

At the bottom left of the main content area, there's a URL bar showing 'localhost:8080/customer/show-list-trainer'.

<b>ID and Name:</b>	28 - view class detail	<b>Actor:</b>	Customer		
<b>Description:</b>	This function allows customer to view class detail				
<b>Trigger:</b>	When the actor click "Xem chi tiết" in the row of each class record in the "Lớp học" screen				
<b>Preconditions:</b>	PRE-28.1. The customer click "Xem chi tiết"				
<b>Post-conditions:</b>	POST-28.1. The system displays class detail.				
	<b>Actor actions</b>	<b>System response</b>			
<b>Normal Flows:</b>	1. The customer click "Xem chi tiết" in the row of each class record in the "Lớp học" screen	2. The system displays a class detail.			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01				

### 3.2.29 View class list

The screenshot shows a green header bar with the GYM MASTER logo and navigation links: Trang chủ, Vé, Huấn Luyện Viên, Lớp học, Lịch tập, Sản phẩm, Check In, and a shopping cart icon. A user profile for 'Hoàng Hiếu' is on the right. Below the header is a title 'Danh sách lớp'. A table lists one row: STT 1, ảnh (image of a woman), Email hoanghieu18092000@gmail.com,Tên học viên Hoàng Hiếu, Giới tính Nam.

<b>ID and Name:</b>	29 - view class list	<b>Actor:</b>	Customer		
<b>Description:</b>	This function allows customer to view class list				
<b>Trigger:</b>	When the actor click “Danh sách lớp” button in the “View class detail” screen				
<b>Preconditions:</b>	PRE-28.1. The customer click “Danh sách lớp” button				
<b>Post-conditions:</b>	POST-28.1. The system displays list of member in the class.				
	<b>Actor actions</b>	<b>System response</b>			
<b>Normal Flows:</b>	1. The customer click “Danh sách lớp” button in the “View class detail” screen	2. The system displays list of member in the class.			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01				

### 3.2.30 View schedule of customer

The screenshot shows a green header bar with the GYM MASTER logo and navigation links: Trang chủ, Vé, Huấn Luyện Viên, Lớp học, Lịch tập, Sản phẩm, Check In, and a shopping cart icon. A user profile for 'Hoàng Hiếu' is on the right. Below the header is a title 'Lịch Tập'. At the top left is a filter for 'Lịch huấn luyện' (Training Schedule) from '24/4' to '30/4' in '2023'. The main area is a grid titled 'Thời gian' (Time) with columns for 'Thứ Hai' through 'Chủ Nhật'. Rows represent time intervals: '5h45 - 7h', '7h15 - 8h30', '8h45 - 10h', '10h15 - 11h30', and '13h45 - 15h'. The grid shows that the 27th of April has training scheduled between 8h45 and 10h.

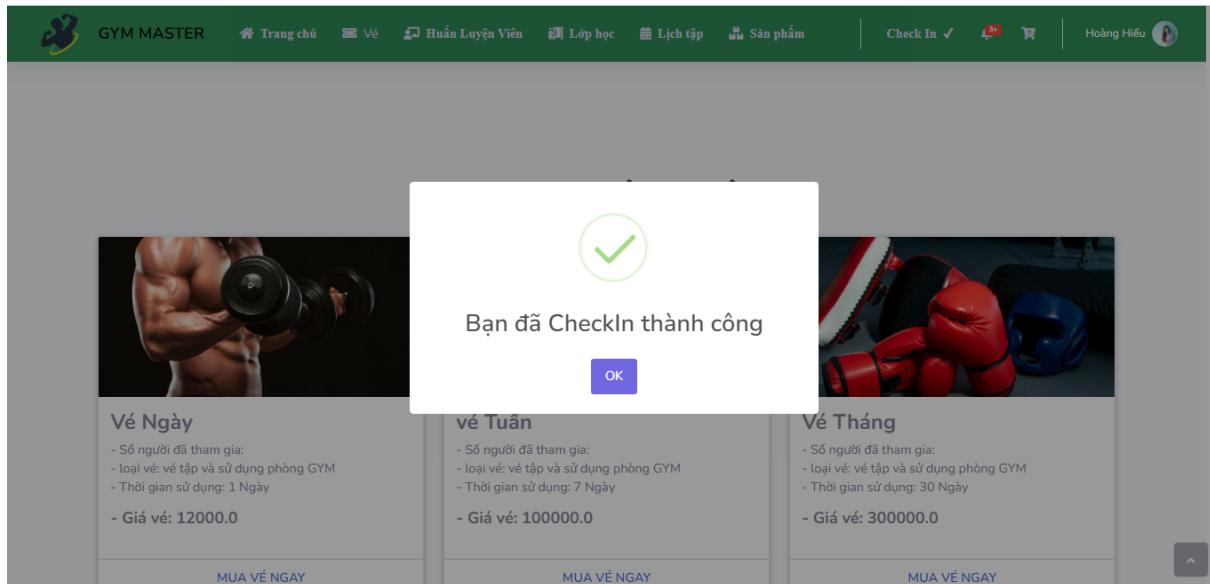
<b>ID and Name:</b>	30 - view schedule	<b>Actor:</b>	Customer
<b>Description:</b>	This function allows customer to view schedule from “Lịch Tập” screen		
<b>Trigger:</b>	When the actor click “Lớp học” on the navigation bar of GymM Website		
<b>Preconditions:</b>	PRE-30.1. The customer click “Lịch Tập” on the navigation bar		
<b>Post-conditions:</b>	POST-30.1. The system displays the table contains the training schedule.		
	<b>Actor actions</b>	<b>System response</b>	
<b>Normal Flows:</b>	1. The customer click “Lịch Tập” on the navigation bar	2. The system displays the table contains the training schedule.	
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	N/A		
<b>Business Rules:</b>	BR-01		

### 3.2.31 Book Schedule

The screenshot shows a modal window titled "Đặt lịch". Inside, there's a sub-modal titled "Đặt lịch tập với HLV". The sub-modal has several input fields: "Loại vé HLV:" (selected "HLV cá nhân"), "Ngày đặt:" (date "16/03/2023"), "Hạn sử dụng:" (duration "5 ngày"), "Thời gian còn lại:" (remaining time "4 ngày"), and "Lặp lại:" (recurrence dropdown set to "Không lặp lại"). At the bottom is a blue "Đặt lịch" button.

<b>ID and Name:</b>	31 - book schedule	<b>Actor:</b>	Customer
<b>Description:</b>	This function allows customer to book schedule from “Lịch Tập” screen		
<b>Trigger:</b>	When the actor clicks “table row” on table schedule		
<b>Preconditions:</b>	PRE-31.1. The customer click “table row” on table schedule PRE-31.2. The customer clicks on the “Đặt lịch” button.		
<b>Post-conditions:</b>	POST-31.1. The system displays successful message.		
	<b>Actor actions</b>	<b>System response</b>	
<b>Normal Flows:</b>	1. The customer click “table row” on table schedule 2. The customer clicks on the “Đặt lịch” button.	3. The system displays successful message.	
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	31-E1. book schedule on the days that have passed GymM displays an error message MSG-51.		
<b>Business Rules:</b>	BR-01, BR-25, BR-45		

### 3.2.32 Checkin



<b>ID and Name:</b>	32 - check in	<b>Actor:</b>	Customer		
<b>Description:</b>	This function allows customer to checkin before going to the gym				
<b>Trigger:</b>	When the actor clicks "Check in" on the navigation bar				
<b>Preconditions:</b>	PRE-32.1. Customer account is not blocked. PRE-32.2. The entry ticket is valid/not defective.				
<b>Post-conditions:</b>	POST-32.1. The system displays checkin successful.				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. The customer click "Check in" on the navigation bar 2. If the entry ticket is valid/not defective	3. The system displays checkin successful.			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	32-E1. You don't have a ticket yet: GymM displays an error message MSG-67. 32-E2. Your ticket has expired: GymM displays an error message MSG-66.				
<b>Business Rules:</b>	BR-01,BR-51				

### 3.2.33 Shopping Cart

**Danh sách vé**

**vé Tuần**

- Ngày thêm: 2023-05-25
- Ngày bắt đầu: 2023-05-25
- Ngày kết thúc: 2023-06-01
- Trạng thái thanh toán: 0
- Giá vé:

100.000 ₫

XÓA VÉ

<b>ID and Name:</b>	33 - shopping cart	<b>Actor:</b>	Customer		
<b>Description:</b>	This function allows customer want to buy ticket				
<b>Trigger:</b>	When the actor clicks “cart” icon on the navigation bar				
<b>Preconditions:</b>	PRE-33.1. Customer account is not blocked. PRE-33.2. If the user clicks buy any kind of ticket. PRE-33.3. The customer click “Cart” icon on the navigation bar				
<b>Post-conditions:</b>	POST-32.1. The system displays a list of tickets that customers want to buy .				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. If the user clicks buy any kind of ticket 2. The customer click “Cart” icon on the navigation bar	3. The system displays a list of tickets that customers want to buy			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	N/A.				
<b>Business Rules:</b>	BR-01				

### 3.2.34 Payment

The screenshot shows a payment interface for VNPAY. On the left, there's a summary of the transaction details:

- Số tiền thanh toán: 202.000 VND
- Giá trị đơn hàng: 202.000 VND
- Phí giao dịch: 0 VND
- Mã đơn hàng: 900
- Nhà cung cấp: VNPAY - TryItNow

On the right, the payment method is selected as "Thanh toán qua Ngân hàng NCB". The form fields for NCB card payment are displayed:

- Thẻ nội địa
- Số thẻ: Nhập số thẻ (with placeholder for NCB)
- Tên chủ thẻ: Nhập tên chủ thẻ (không dấu)
- Ngày phát hành: MM/YY
- Mã khuyến mại: Chọn hoặc nhập mã (with placeholder)

At the bottom, there are buttons for "Hủy thanh toán" (Cancel), "Tiếp tục" (Continue), and contact information: 1900.5555.77 and hotro@vnpay.vn. There are also secure payment logos.

<b>ID and Name:</b>	32 - Payment	<b>Actor:</b>	Customer
<b>Description:</b>	This function allows customer to payment		
<b>Trigger:</b>	Once the customer has selected the payment method		
<b>Preconditions:</b>	<b>PRE-34.1.</b> The user has an account active can login GymM Website <b>PRE-34.2.</b> The user has a transaction before <b>PRE-34.3.</b> The user has selected the payment method		
<b>Post-conditions:</b>	<b>POST-34.1.</b> The system displays method payment for customer		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. Click "Shopping cart" icon on the navigation bar 2. Click "Thanh toán" button 3. Selected the payment method 4. Fill card information and click "Tiếp tục" button	<b>System response</b>	5. System verification information of card and display message result transaction
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	54-E1. payment method not selected: GymM displays an error message MSG-00. 54-E2. 'số thẻ' is empty: GymM displays an error message MSG-53. 54-E3. 'tên chủ thẻ' is empty: GymM displays an error message MSG-54. 54-E4. 'ngày phát hành' is empty: GymM displays an error message MSG-55. 54-E5. 'số thẻ' does not exist: GymM displays an error message MSG-56. 54-E6. 'tên chủ thẻ' does not exist:		

	GymM displays an error message MSG-57. 54-E7. 'ngày phát hành' incorrect: GymM displays an error message MSG-58. 54-E8. 'ngày phát hành' incorrect: GymM displays an error message MSG-59. 54-E9. 'ngày phát hành' incorrect: GymM displays an error message MSG-60.
<b>Business Rules:</b>	BR-01, BR-35, BR-36, BR-37, BR-38, BR-39, BR-40, BR-41, BR-42

### 3.2.35 Create Order

The screenshot shows the Gym Master software interface. At the top, there's a green header bar with the title 'GYM MASTER' and navigation links for 'Trang chủ', 'Vé', 'Bán hàng', 'Danh sách Checkin', and a user profile for 'Luong Hoang'. Below the header, there's a toolbar with buttons for 'Mã', 'Sản phẩm', 'Số lượng', 'Đơn giá', 'Giá bán', and 'Thành tiền'. The main content area has a search bar at the top left and a grid of product images below it. To the right, a large blue box represents the 'Hóa đơn' (Bill) creation process. It shows a bill number '0459502' and a timestamp '25/05/2023 06:25 CH'. There are dropdown menus for 'Chọn khách hàng' (Select customer) and 'Tên khách hàng' (Customer name). Below these, there are fields for 'Tổng tiền hàng:' (Total amount), 'Giảm giá:' (Discount), 'Khách cần trả:' (Amount due), and 'Khách trả:' (Payment method). The payment method field contains 'VND'.

<b>ID and Name:</b>	35 - Create order	<b>Actor:</b>	Staff		
<b>Description:</b>	This function allows staff to create order				
<b>Trigger:</b>	When customer who wants to buy products.				
<b>Preconditions:</b>	PRE-35.1. Staff account is not blocked. PRE-35.2. Staff is logged into GymM. PRE-35.1. There are products in the system.				
<b>Post-conditions:</b>	<b>POST-35.1.</b> The system displays order				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. Staff click "Bán hàng" in the navigation bar	2. The system display order with list product, order table and bill			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	38-E1. Haven't selected a customer yet: GymM displays an error message MSG-64. 38-E2. Payment must be greater than payable: GymM displays an error message MSG-65.				
<b>Business Rules:</b>	BR-01				

### 3.2.36 View checkin list

Danh sách CheckIn

STT	Ánh	Email	Tên học viên	Giới tính	Thời gian	Trạng thái
1		Admin@gmail.com	Hoàng Đức Lương	Nam	2023-05-25 17:23:02.0	Check in thành công

localhost:8080/employee/list-checkIn#

ID and Name:	36 - View checkin list	Actor:	Staff		
Description:	This function allows staff to view checkin list				
Trigger:	When an employee wants to manage access to a customer's Gym.				
Preconditions:	PRE-36.1. Staff account is not blocked. PRE-36.2. Staff is logged into GymM. PRE-36.1. Click "Danh sách checkin" in the navigation bar.				
Post-conditions:	<b>POST-36.1.</b> The system displays checkin list				
Normal Flows:	Actor actions	System response			
	1. Staff click "Danh sách checkin" in the navigation bar	2. The system display checkin list			
Alternative Flows:	N/A				
Exception Flows:	N/A				
Business Rules:	BR-01				

### 3.2.37 Add new customer account

Tạo mới tài khoản

GYM MASTER

Người dùng hệ thống Phòng tập Số quỹ

Hoàng Đức Lương

Tên đầy đủ  
Enter your full name

Ảnh đại diện  
150 x 150

Change Photo

Email  
Nhập địa chỉ email của bạn

Số điện thoại  
Enter your phone number

Giới tính  
Chọn giới tính

Ngày sinh  
dd/mm/yyyy

Địa chỉ  
Enter your address

CCCD  
Nhập số CCCD

<b>ID and Name:</b>	37 - add new customer account	<b>Actor:</b>	Admin		
<b>Description:</b>	This function allows admin to add new customer account				
<b>Trigger:</b>	When the actor clicks “Thêm mới” button from the “Danh sách khách hàng” screen				
<b>Preconditions:</b>	PRE-37.1. Actors has an administrator account PRE-37.2. Must fill information category system requirement				
<b>Post-conditions:</b>	POST-37.1. The system displays a new account on a GymM Website				
	<b>Actor actions</b>	<b>System response</b>			
<b>Normal Flows:</b>	1. Admin click “Thêm mới” button 2. Input information system required 3. Click to “Tạo mới” button	4. The system displays a new account.			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	38-E1. Required field empty: GymM displays an error message MSG-5. 38-E2. name empty: GymM displays an error message MSG-14. 38-E3. Email empty: GymM displays an error message MSG-6. 38-E4. Email invalid: GymM displays an error message MSG-25. 38-E5. Email available: GymM displays an error message MSG-9. 38-E6. Phone is not valid: GymM displays an error message MSG-10. 38-E7. Empty input phone: GymM displays an error message MSG-15. 38-E8. Date of birth is empty: GymM displays an error message MSG-26. 38-E9. Address is empty: GymM displays an error message MSG-27. 38-E10. Citizen identification empty: GymM displays an error message MSG-61. 38-E11. image empty: GymM displays an error message MSG-42. 38-E12. image format incorrectly: GymM displays an error message MSG-43. 38-E13. Gender is empty: GymM displays an error message MSG-62.				
<b>Business Rules:</b>	BR-01,BR-02,BR-03,BR-04,BR-05,BR-09,BR-10,BR-13,BR-14,BR-15,BR-28,BR-29,BR-33,BR-34				

### 3.2.38 Add new trainer account

The screenshot shows a web application interface for adding a new trainer account. At the top, there's a navigation bar with the 'GYM MASTER' logo, user status indicators ('Người dùng hệ thống', 'Phòng tập', 'Số quỹ'), and a user profile for 'Hoàng Đức Lương'. The main content area is titled 'Thêm mới huấn luyện viên' (Add new trainer). It features a circular placeholder for a profile photo (150x150 pixels) with a 'Change Photo' button. Below the photo are several input fields: 'Tên đầy đủ' (Full name), 'Email' (Email address), 'Số điện thoại' (Phone number), 'Giới tính' (Gender dropdown with 'Chọn giới tính'), 'Ngày sinh' (Date of birth), 'Địa chỉ' (Address), 'Số năm kinh nghiệm/Tính theo năm' (Years of experience), and 'CCCD' (Citizen ID). A large blue 'Tạo mới' (Create New) button is at the bottom right.

<b>ID and Name:</b>	38 - add new trainer account	<b>Actor:</b>	Admin
<b>Description:</b>	This function allows admin to add new trainer account		
<b>Trigger:</b>	When the actor clicks “Thêm mới huấn luyện viên” button from the “Danh sách huấn luyện viên” screen		
<b>Preconditions:</b>	PRE-38.1. Actors has an administrator account PRE-38.2. Must fill information category system requirement		
<b>Post-conditions:</b>	POST-38.1. The system displays a new account on a GymM Website		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. Admin click “Thêm mới huấn luyện viên” button 2. Input information system required 3. Click to “Tạo mới” button	<b>System response</b> 4. The system displays a new account.	
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	39-E1. Required field empty: GymM displays an error message MSG-5. 39-E2. name empty: GymM displays an error message MSG-14. 39-E3. Email empty: GymM displays an error message MSG-6. 39-E4. Email invalid: GymM displays an error message MSG-25. 39-E5. Email available: GymM displays an error message MSG-9. 39-E6. Phone is not valid: GymM displays an error message MSG-10. 39-E7. Empty input phone: GymM displays an error message MSG-15. 39-E8. Date of birth is empty: GymM displays an error message MSG-26. 39-E9. Address is empty: GymM displays an error message MSG-27. 39-E10. Citizen identification empty: GymM displays an error message MSG-61.		

<b>ID and Name:</b>	38 - add new trainer account	<b>Actor:</b>	Admin
	39-E11. image empty: GymM displays an error message MSG-42. 39-E12. image format incorrectly: GymM displays an error message MSG-43. 39-E13. Gender is empty: GymM displays an error message MSG-62. 39-E14. Years of experience is empty: GymM displays an error message MSG-63.		
<b>Business Rules:</b>	BR-01,BR-02,BR-03,BR-04,BR-05,BR-10,BR-09,BR-13,BR-14,BR-15,BR-28,BR-29,BR-33,BR-34, BR-52		

### 3.2.39 Add new staff account

The screenshot shows a user interface for adding a new staff account. At the top, there's a navigation bar with 'GYM MASTER', 'Người dùng hệ thống', 'Phòng tập', 'Số quý', and a user profile 'Hoàng Đức Lương'. The main area has a form with the following fields:

- Tên đầy đủ (Full name): Enter your full name
- Email: Nhập địa chỉ email của bạn (Enter your email address)
- Số điện thoại (Phone number): Enter your phone number
- Giới tính (Gender): Chọn giới tính (Select gender)
- Ngày sinh (Date of birth): dd/mm/yyyy
- Địa chỉ (Address): Enter your address
- CCCD: Nhập số CCCD (Enter CCCD number)
- A blue 'Tạo mới' (Create new) button at the bottom.

<b>ID and Name:</b>	39 - add new staff account	<b>Actor:</b>	Admin		
<b>Description:</b>	This function allows admin to add new staff account				
<b>Trigger:</b>	When the actor clicks “Thêm mới” button from the “Danh sách nhân viên” screen				
<b>Preconditions:</b>	PRE-39.1. Actors has an administrator account PRE-39.2. Must fill information category system requirement				
<b>Post-conditions:</b>	POST-39.1. The system displays a new account on a GymM Website				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. Admin click “Thêm mới” button 2. Input information system required 3. Click to “Tạo mới” button	4. The system displays a new account.			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	40-E1. Required field empty: GymM displays an error message MSG-5. 40-E2. name empty: GymM displays an error message MSG-14. 40-E3. Email empty: GymM displays an error message MSG-6. 40-E4. Email invalid:				

<b>ID and Name:</b>	39 - add new staff account	<b>Actor:</b>	Admin
GymM displays an error message MSG-25. 40-E5. Email available: GymM displays an error message MSG-9. 40-E6. Phone is not valid: GymM displays an error message MSG-10. 40-E7. Empty input phone: GymM displays an error message MSG-15. 40-E8. Date of birth is empty: GymM displays an error message MSG-26. 40-E9. Address is empty: GymM displays an error message MSG-27. 40-E10. Citizen identification empty: GymM displays an error message MSG-61. 40-E11. image empty: GymM displays an error message MSG-42. 40-E12. image format incorrectly: GymM displays an error message MSG-43. 40-E13. Gender is empty: GymM displays an error message MSG-62.			
<b>Business Rules:</b>	BR-01,BR-02,BR-03,BR-04,BR-05,BR-09,BR-10,BR-13,BR-14,BR-15,BR-28,BR-29,BR-33,BR-34		

### 3.2.40 View member list in class

The screenshot shows the Gym Master application interface. At the top, there is a navigation bar with the logo 'GYM MASTER', user roles ('Người dùng hệ thống', 'Phòng tập', 'Số quý'), and a notification icon with '3+' notifications. A user profile 'Hoàng Đức Lương' is also present. Below the navigation bar, the main content area has a title 'Bảng danh sách học viên'. There are two tabs: 'khóa biểu tổng quát' (General schedule) and 'Danh sách học viên' (Student list), with 'Danh sách học viên' being active. The table below lists one student: STT 1, ảnh (image of a person), Email: hoanghieu18092000@gmail.com, Tên học viên: Hoàng Hiếu, Giới tính: Nam. To the right of the table is a sidebar titled 'Thông tin lớp học' (Class information) containing the following details: - Tên lớp: Vé tập thử lớp PT Lương, - Huấn luyện viên: Lương, - Ngày bắt đầu: 2023-05-01, - Ngày kết thúc: 2023-05-24, - Số lượng thành viên tối đa: 5, - Thành viên đã đăng ký: 1/5, - Thời gian tập: 8h45 - 10h, - Trạng thái lớp: Lớp đã bắt đầu, - Lịch tập: monday , wednesday , friday.

<b>ID and Name:</b>	40 - View member list in class	<b>Actor:</b>	Admin, trainer
<b>Description:</b>	This function allows admin to view class detail		
<b>Trigger:</b>	When the actor clicks "Eye" icon on the row of each class record		
<b>Preconditions:</b>	PRE-40.1. Actors has an administrator account PRE-40.2. Clicks "Eye" icon on the row of each class record		
<b>Post-conditions:</b>	POST-40.1. The system displays member list in class		
<b>Normal Flows:</b>	<b>Actor actions</b>		
	<b>System response</b>		

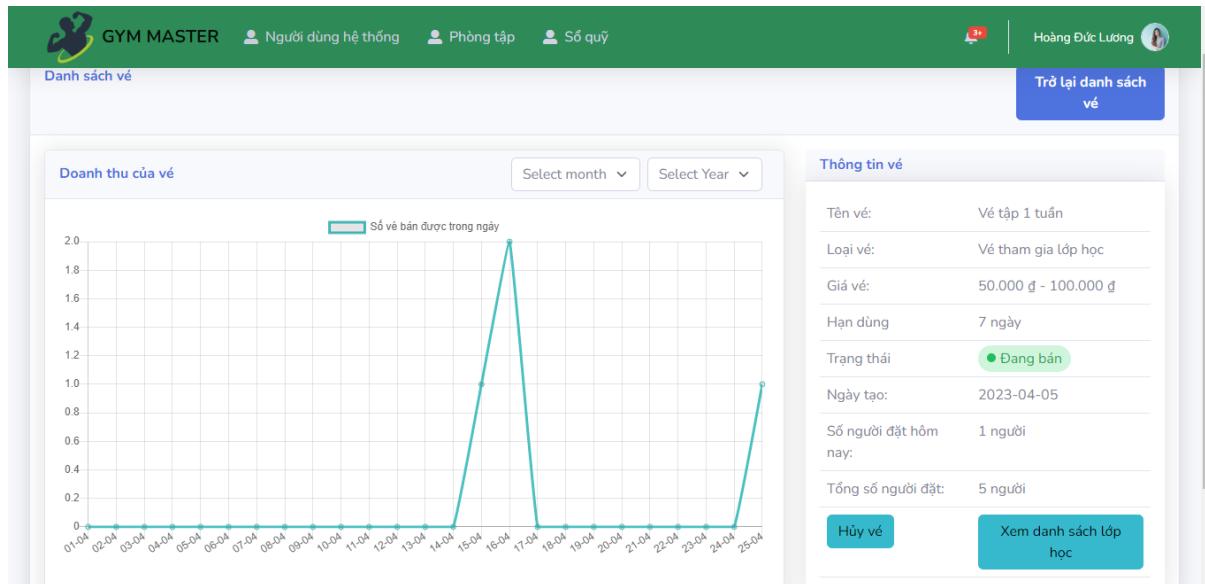
	1. Admin click “Eye” icon on the row of each class record from “Danh sách lớp học” screen	2. The system displays member list in class.
<b>Alternative Flows:</b>	N/A	
<b>Exception Flows:</b>	41-E1. display wrong format GymM displays the error message MSG-36.	
<b>Business Rules:</b>	BR-01	

### 3.2.41 Delete ticket

#	Tên vé	Loại vé	Giá vé	Hạn sử dụng	Trạng thái	Ngày tạo	Thao tác
1	2 tuần	Vé tham gia lớp học	Chưa được định giá	7 ngày	● Chưa bán - Thiếu huấn luyện viên	2023-04-29	
2	3 Tuần	Vé vào cửa			● Đang bán	2023-04-29	
3	Vé tập thử	Vé tham gia			● Đang bán	2023-04-05	
4	Vé tập với PT 1 Năm	Vé vào cửa			● Đang bán	2023-04-05	
5	Vé tập 1 tuần	Vé tham gia			● Đang bán	2023-04-05	
6	Vé tập thử với Huấn Luyện Viên	Vé thuê huấn luyện viên	2.300 ₫	7 ngày	● Đang bán	2023-04-05	
7	Vé tập thử với Trainer	Vé thuê huấn luyện viên	40.000 ₫ - 50.000 ₫	1 ngày	● Đang bán	2023-04-05	
8	Vé tập với PT tháng	Vé thuê huấn luyện viên	123 ₫ - 456 ₫	30 ngày	● Đang bán	2023-04-03	
9	Vé tập với PT 1 ngày	Vé thuê huấn luyện viên	20.000 ₫	1 ngày	● Đang bán	2023-03-31	
10	Vé Tháng	Vé vào cửa	300.000 ₫	30 ngày	● Đang bán	2023-03-05	
11	Vé Ngày	Vé vào cửa	12.000 ₫	1 ngày	● Đang bán	2023-03-01	

<b>ID and Name:</b>	42 - Delete ticket	<b>Actor:</b>	Admin		
<b>Description:</b>	This function allows admin to delete ticket				
<b>Trigger:</b>	When the actor clicks “Trash” icon on the row of each ticket record				
<b>Preconditions:</b>	PRE-42.1. Actors has an administrator account PRE-42.2. Clicks “Trash” icon on the row of each ticket record PRE-42.3. Clicks “Xóa” button in the model				
<b>Post-conditions:</b>	POST-42.1. The system displays delete message successful				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. Admin clicks “Trash” icon on the row of each ticket record from “Danh sách vé” screen 2. Clicks “Xóa” button in the model	3. The system displays delete message successful			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	N/A.				
<b>Business Rules:</b>	BR-01				

### 3.2.42 View ticket detail



ID and Name:	42 - View ticket detail	Actor:	Admin		
Description:	This function allows admin to view ticket detail				
Trigger:	When the actor clicks "Eye" icon on the row of each ticket record				
Preconditions:	PRE-42.1. Actors has an administrator account PRE-42.2. Clicks "Eye" icon on the row of each ticket record				
Post-conditions:	POST-42.1. The system displays delete message successful				
Normal Flows:	Actor actions	System response			
	1. Admin clicks "Eye" icon on the row of each ticket record from "Danh sách vé" screen	2. The system displays "Chi tiết vé tập" screen			
Alternative Flows:	N/A				
Exception Flows:	N/A.				
Business Rules:	BR-01				

### 3.2.43 Manage products

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<b>ID and Name:</b>	43 - Manage products	<b>Actor:</b>	Admin
<b>Description:</b>	This function allows admin to view list of products and manage them		
<b>Trigger:</b>	When the actor clicks “Phòng tập” in the navigation bar then click “Quản lý sản phẩm”		
<b>Preconditions:</b>	PRE-43.1. Actors has an administrator account PRE-43.2. Clicks “Eye” icon on the row of each ticket record		
<b>Post-conditions:</b>	POST-43.1. The system displays list of products		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. Admin clicks “Phòng tập” in the navigation bar then click “Quản lý sản phẩm”	<b>System response</b> 2. The system displays list of products	
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	N/A.		
<b>Business Rules:</b>	BR-01		

### 3.2.44 Add product

<b>ID and Name:</b>	44 - Add product	<b>Actor:</b>	Admin
<b>Description:</b>	This function allows admin to add new product		
<b>Trigger:</b>	When the actor clicks “Thêm mới” button in the “Danh sách sản phẩm” screen		
<b>Preconditions:</b>	PRE-44.1. Actors has an administrator account PRE-44.2. Clicks “Thêm mới” button in the “Danh sách sản phẩm” screen PRE-44.3. Fill information about product to the fields		
<b>Post-conditions:</b>	POST-44.1. System creates a new product		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. Admin clicks button “Thêm mới Sản phẩm” 2. Admin enters the name, image, price, quantity, status, kind, description. 3. Admin clicks on the “Tạo mới” button. 4. The system checks the valid information. 6. The system creates a new Product that the Admin created. 7. The system displays the message "Bạn đã thêm mới sản phẩm thành công".	<b>System response</b>	8. The system displays message delete successful
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	45-E1. Name empty: GymM displays an error message MSG-14. 45-E2. name already exists: GymM displays an error message MSG-44. 45-E3. Price empty: GymM displays an error message MSG-30. 45-E4. Price empty: GymM displays an error message MSG-31. 45-E5. Price is invalid: GymM displays an error message MSG-35. 45-E6. image empty: GymM displays an error message MSG-42. 45-E7. image format incorrectly GymM displays an error message MSG-43. 45-E8. quantity empty: GymM displays an error message MSG-45.		
<b>Business Rules:</b>	BR-01, BR-13, BR-20, BR-21, BR-28, BR-29, BR-30		

### 3.2.45 Delete product

<b>ID and Name:</b>	45 - Delete product	<b>Actor:</b>	Admin
<b>Description:</b>	This function allows admin to delete product		
<b>Trigger:</b>	When the actor clicks "Trash" icon in the each row of product record		
<b>Preconditions:</b>	PRE-45.1. Actors has an administrator account PRE-45.2. Clicks "Trash" icon in the each row of product record		
<b>Post-conditions:</b>	POST-45.1. The system displays list of products		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. Admin clicks "Trash" icon in the each row of product record 2. Click "Xóa" button in the model	<b>System response</b> 3. The system displays message delete successful	
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	N/A.		
<b>Business Rules:</b>	BR-01		

### 3.2.46 View Ticket cash-book

Năm	Tổng số tiền
Năm 2023	514.000 ₫

localhost:8080/admin/dashboard

<b>ID and Name:</b>	46 - View ticket cash-book	<b>Actor:</b>	Admin
<b>Description:</b>	This function allows admin to view ticket revenue		

<b>Trigger:</b>	When the actor clicks “Sổ quỹ” in the navigation bar then click “Doanh thu vé”	
<b>Preconditions:</b>	PRE-46.1. Actors has an administrator account PRE-46.2. Clicks “Sổ quỹ” in the navigation bar then click “Doanh thu vé”	
<b>Post-conditions:</b>	POST-46.1. The system displays “Doanh thu bán vé” screen	
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>
	1. Admin clicks “Sổ quỹ” in the navigation bar then click “Doanh thu vé”	2. The system displays “Doanh thu bán vé” screen
<b>Alternative Flows:</b>	N/A	
<b>Exception Flows:</b>	N/A.	
<b>Business Rules:</b>	BR-01	

### 3.2.47 View Product cash-book

The screenshot shows a software interface for 'GYM MASTER'. At the top, there's a green header bar with the brand logo, user roles ('Người dùng hệ thống', 'Phòng tập', 'Thống kê doanh thu'), and a notification icon with '3+' notifications. On the right, it shows a user profile for 'Hoàng Đức Lương'. Below the header, a white report card titled 'Doanh thu từ việc bán sản phẩm' is displayed. It includes a dropdown menu for 'Năm' (Year) set to 'Tất cả' (All). The main table has columns 'Năm' and 'Tổng số tiền' (Total amount). A single row is shown for 'Năm 2023' with a value of '72.984 ₫'. At the bottom of the report card, it says 'Copyright © Brand 2023'.

<b>ID and Name:</b>	47 - View ticket revenue detail	<b>Actor:</b>	Admin
<b>Description:</b>	This function allows admin to view ticket revenue detail		
<b>Trigger:</b>	When the actor clicks “Xem chi tiết” in the each row of ticket revenue record		
<b>Preconditions:</b>	PRE-47.1. Actors has an administrator account PRE-47.2. Click “Xem chi tiết” in the each row of ticket revenue record from “Doanh thu bán vé” screen		
<b>Post-conditions:</b>	POST-47.1. The system displays “Chi tiết doanh thu” screen		
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>	
	1. Admin “Xem chi tiết” in the each row of ticket revenue record “Doanh thu bán vé” screen	2. The system displays “Chi tiết doanh thu” screen	
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	N/A.		
<b>Business Rules:</b>	BR-01		

### 3.2.48 Filter staff from “Danh sách nhân viên” screen

<b>ID and Name:</b>	48 - Filter staff account from “Danh sách nhân viên” screen	<b>Actor:</b>	Admin		
<b>Description:</b>	This function allows admin to filter staff account from “Danh sách nhân viên” screen				
<b>Trigger:</b>	When the admin selected dropdown from “Danh sách nhân viên” screen				
<b>Preconditions:</b>	<b>PRE-48.1.</b> Actors has an administrator account <b>PRE-48.2.</b> The staff accounts needs to be in list account				
<b>Post-conditions:</b>	<b>POST-48.1.</b> The system display list accounts after filter				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. Go to “Danh sách nhân viên” screen 2. Selected dropdown	3. The system displays a list of accounts with selected status			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01, BR-53				

### 3.2.50 Filter trainer from “Danh sách huấn luyện viên” screen

Danh sách huấn luyện viên

Thêm mới huấn luyện viên

Trạng thái: Đang hoạt động

#	Email	Tên nhân viên	SĐT	Trạng thái	Thao tác
1	TrainerLuong@gmail.com Ngày tạo: 2023-03-01	Lương	0811145699	Hoạt động	
2	luong@gmail.com Ngày tạo: 1212-12-12	Vương Hạ	0831231233	Hoạt động	

Tổng số bản ghi: 2

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<b>ID and Name:</b>	50 - Filter staff account from “Danh sách huấn luyện viên” screen	<b>Actor:</b>	Admin		
<b>Description:</b>	This function allows admin to filter staff account from “Danh sách huấn luyện viên” screen				
<b>Trigger:</b>	When the admin selected dropdown from “Danh sách huấn luyện viên” screen				
<b>Preconditions:</b>	<b>PRE-50.1.</b> Actors has an administrator account <b>PRE-50.2.</b> The trainer accounts needs to be in list account				
<b>Post-conditions:</b>	<b>POST-50.1.</b> The system display list accounts after filter				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. Go to “Danh sách huấn luyện viên” screen 2. Selected dropdown	3. The system displays a list of accounts with selected status			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01, BR-53				

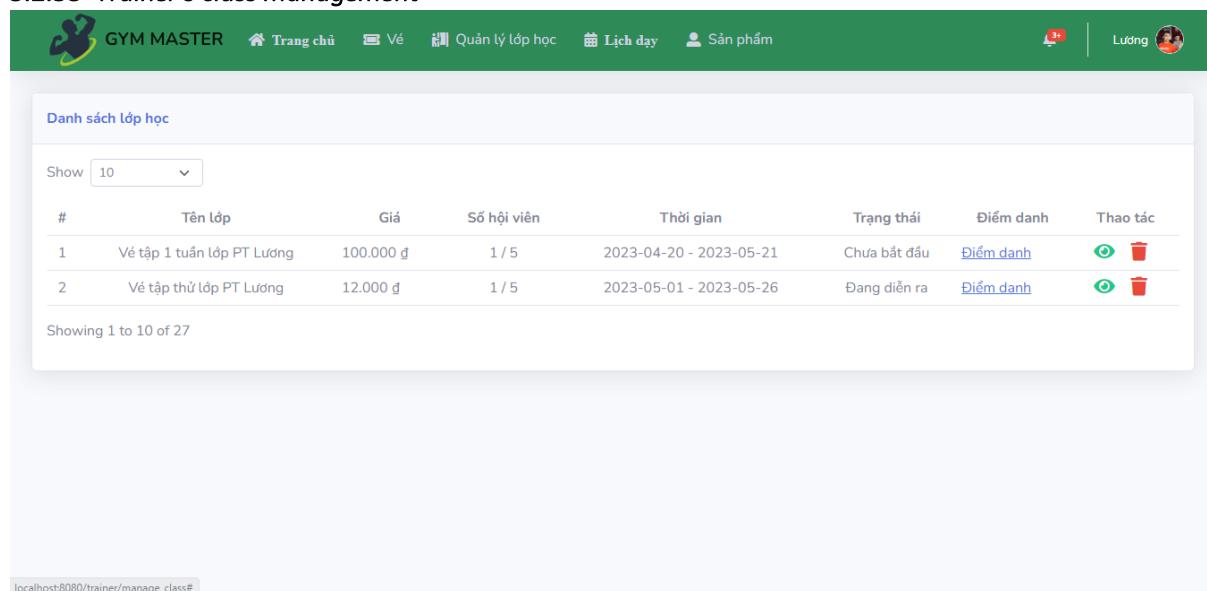
### 3.2.51 Filter customer from “Danh sách khách hàng” screen

<b>ID and Name:</b>	51 - Filter customer account from “Danh sách khách hàng” screen	<b>Actor:</b>	Admin		
<b>Description:</b>	This function allows admin to filter staff account from “Danh sách huấn luyện viên” screen				
<b>Trigger:</b>	When the admin selected dropdown from “Danh sách khách hàng” screen				
<b>Preconditions:</b>	<b>PRE-51.1.</b> Actors has an administrator account <b>PRE-51.2.</b> The customer accounts needs to be in list account				
<b>Post-conditions:</b>	<b>POST-51.1.</b> The system display list accounts after filter				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. Go to “Danh sách khách hàng” screen 2. Selected dropdown	3. The system displays a list of accounts with selected status			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01, BR-53				

### 3.2.52 Add new class

<b>ID and Name:</b>	52 - Add new class	<b>Actor:</b>	Admin
<b>Description:</b>	The function allows admin to add new class		
<b>Trigger:</b>	When the admin click "Thêm mới" button from "Quản lý lớp học" screen.		
<b>Preconditions:</b>	<b>PRE-52.1.</b> Actors have admin account. <b>PRE-52.2.</b> Actors click the "Thêm mới" button.		
<b>Post-conditions:</b>	<b>POST-52.1.</b> The system add new class to class list		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. Admin clicks button "Thêm mới" 2. Admin enters the name of class, PT name, class ticket type,gym shift, start date, price, member, training schedule. 3. Admin clicks on the "Thêm lớp học" button. 4. The system checks the valid information. 7. The system displays the message "Bạn đã thêm mới sản phẩm thành công".	<b>System response</b>	5. The system creates a new Class that the Admin created.
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	52-E1. Class Name is empty: GymM displays an error message MSG-68. 52-E3. Price empty: GymM displays an error message MSG-30. 28-E4. Price empty: GymM displays an error message MSG-31. 52-E5. Price is invalid: GymM displays an error message MSG-35. 52-E6. training schedule is empty: GymM displays an error message MSG-69.		
<b>Business Rules:</b>	BR-01, BR-13, BR-20, BR-21, BR-54		

### 3.2.53 Trainer's class management



Danh sách lớp học

Show	10						
#	Tên lớp	Giá	Số hội viên	Thời gian	Trạng thái	Điểm danh	Thao tác
1	Vé tập 1 tuần lớp PT Lương	100.000 ₫	1 / 5	2023-04-20 - 2023-05-21	Chưa bắt đầu	<a href="#">Điểm danh</a>	
2	Vé tập thử lớp PT Lương	12.000 ₫	1 / 5	2023-05-01 - 2023-05-26	Đang diễn ra	<a href="#">Điểm danh</a>	

Showing 1 to 10 of 27

localhost:8080/trainer/manage\_class#

<b>ID and Name:</b>	53 - Trainer's class management	<b>Actor:</b>	Trainer		
<b>Description:</b>	This function allows trainer to manage class				
<b>Trigger:</b>	When the actor want to manage class				
<b>Preconditions:</b>	PRE-53.1. The trainer account is not blocked PRE-53.2. The trainer click “Quản lý lớp học” on the navigation bar				
<b>Post-conditions:</b>	POST-53.1. The system displays class information screen.				
	<b>Actor actions</b>	<b>System response</b>			
<b>Normal Flows:</b>	1. The trainer click “Quản lý lớp học” on the navigation bar	2. The system displays class information screen.			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01				

### 3.2.54 Add attendance

Bảng điểm danh của lớp

STT	Ảnh	Email	Tên học viên	Điểm danh
1		hoanghieu18092000@gmail.com	Hoàng Hiếu	<input checked="" type="checkbox"/>

Lưu lại

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<b>ID and Name:</b>	54 - add attendance	<b>Actor:</b>	Trainer		
<b>Description:</b>	This function allows trainer to take attendance				
<b>Trigger:</b>	When the actor want to take attendance of students				
<b>Preconditions:</b>	PRE-54.1. The trainer account is not blocked PRE-54.2. The trainer click “Quản lý lớp học” on the navigation bar PRE-54.3. Trainer click “Điểm danh” in the row of each class record.				
<b>Post-conditions:</b>	POST-54.1. The system add attendance				
	<b>Actor actions</b>	<b>System response</b>			
<b>Normal Flows:</b>	1. The trainer click “Quản lý lớp học” on the navigation bar 2. Trainer click “Điểm danh” in the row of each class record. 3. click check box in colum “Điểm danh” then click “Lưu lại” button	4. The system add attendance			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	44-E1. Class hasn't started yet: GymM displays an error message MSG-70.				
<b>Business Rules:</b>	BR-01, BR-55				

### 3.2.55 Update attendance

<b>ID and Name:</b>	55 - Update attendance	<b>Actor:</b>	Trainer
<b>Description:</b>	This function allows trainer to update attendance		
<b>Trigger:</b>	When the actor want to update attendance of students		
<b>Preconditions:</b>	PRE-54.1. The trainer account is not blocked PRE-54.2. The trainer click “Quản lý lớp học” on the navigation bar PRE-54.3. Trainer click “Update” in the row of each class record.		
<b>Post-conditions:</b>	POST-54.1. The system updates the student's attendance status		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. Trainer click “Quản lý lớp học” in the navigation bar. 2. Trainer click “Update” in the row of each class record. 3. Trainer click check box to take or cancel attendance	<b>System response</b>	4. The system updates the student's attendance status
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	46-E1. Class hasn't started yet: GymM displays an error message MSG-70. 46-E1. Attendance cannot be updated once the date has passed: GymM displays an error message MSG-71.		
<b>Business Rules:</b>	BR-01, BR-55, BR-56, BR-57		

### 3.2.56 View attendance

The screenshot shows a web-based application interface for viewing student attendance. At the top, there are tabs for 'Chi tiết lớp học' (Class details), 'Trở lại danh sách lớp' (Return to class list), 'Bảng danh sách học viên' (Student list table), 'Khóa biểu tổng quát' (General schedule), and 'Danh sách học viên' (Student list). The main area displays a table with student data and a sidebar with class information.

STT	Email	01-05	03-05	05-05	08-05	10-05	12-05	15-05	17-05	19-05	22-05	24-05	26-05
1	hoanghieu18092000@gmail.com	-	-	-	-	-	-	-	-	-	-	-	P

**Thông tin lớp học**

- Tên lớp: Vé tập thử lớp PT Lương
- Huấn luyện viên: Lương
- Ngày bắt đầu: 2023-05-01
- Ngày kết thúc: 2023-05-26
- Số lượng thành viên tối đa: 5
- Thành viên đã đăng ký: 1/5
- Thời gian tập: 8h45 - 10h
- Trạng thái lớp: Lớp đã bắt đầu
- Lịch tập: monday , wednesday , friday

<b>ID and Name:</b>	56 - View attendance	<b>Actor:</b>	Trainer, Admin
<b>Description:</b>	This function allows actors to view attendance		
<b>Trigger:</b>	When the actors want to view attendance of students		
<b>Preconditions:</b>	PRE-56.1. Actors click “Quản lý lớp học” in the navigation bar. PRE-56.2. Actors click “Eye” icon in the row of each class record. PRE-56.3. Actors click “Khóa biểu tổng quát” button		
<b>Post-conditions:</b>	POST-56.1. The system displays attendance sheet of students		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. Actors click “Quản lý lớp học” in the navigation bar. 2. Actors click “Eye” icon in the row of each class record. 3. Actors click “Khóa biểu tổng quát” button	<b>System response</b>	4. The system displays attendance sheet of students
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	N/A		
<b>Business Rules:</b>	BR-01,		

### 3.2.57 View schedule of trainer

<b>ID and Name:</b>	57 - View schedule of trainer	<b>Actor:</b>	Admin, Staff, Trainer,Customer
<b>Description:</b>	The function allows actors to view schedule of trainer		
<b>Trigger:</b>	When the actors want to view schedule of trainer.		
<b>Preconditions:</b>	<b>PRE-57.1.</b> Actors have logged out the system. <b>PRE-57.2.</b> If actor is trainer click the “Lịch dạy” in the navigation bar. <b>PRE-57.3.</b> If actor are staff, customer click the “Vé” in the navigation bar then click “Vé tập với PT”. Final, click the ticket then click “lịch trình” button		
<b>Post-conditions:</b>	<b>POST-57.1.</b> The system will display schedule of trainer		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. If actor is trainer click the “Lịch dạy” in the navigation bar. 2.If actor is staff, customer click the “Vé” in the navigation bar then click “Vé tập với PT”. Final, click the ticket then click “lịch trình” button	<b>System response</b>	3. The system will display schedule of trainer
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	N/A		
<b>Business Rules:</b>	BR-31, BR-32		

### 3.2.58 View history order ticket

<b>ID and Name:</b>	58 - view history order ticket	<b>Actor:</b>	Admin, Customer		
<b>Description:</b>	This function allows actors to view history order ticket				
<b>Trigger:</b>	When the actor clicks "Avatar icon" on the top right of the navigation bar of GymM Website, then clicks on "Lịch sử hoạt động"				
<b>Preconditions:</b>	PRE-58.1. Actors is logged into GymM. PRE-58.2. The actors click on the avatar icon on the top right of the navigation bar. PRE-58.3. The actor clicks on the "Lịch sử hoạt động" then click "Lịch sử đặt vé vào cửa".				
<b>Post-conditions:</b>	POST-58.1. The system displays list order ticket history.				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. The user clicks avatar on the right in the navigation bar then click "Lịch sử hoạt động" after click "Lịch sử đặt vé vào cửa".	2. The system displays list order ticket history.			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01				

### 3.2.59 View history order ticket trainer

#	Tên huấn luyện viên	Loại hình	Giá thuê	Thời hạn	Tình trạng thanh toán	Ngày thuê
1	Vé tập thử với Trainer	50.000 ₫	2023-05-17 - 2023-05-23	<span>Đã thanh toán</span>	2023-04-21	Xem chi tiết
2	Vé tập với PT 3 tháng	2.000 ₫	2023-05-10 - 2023-05-16	<span>Đã thanh toán</span>	2023-04-19	Xem chi tiết
3	Vé tập với PT 3 tháng	2.000 ₫	2023-01-05 - 2023-01-06	<span>Đã thanh toán</span>	2023-04-16	Xem chi tiết
4	Vé tập với PT 3 tháng	2.000 ₫	2023-01-03 - 2023-01-04	<span>Đã thanh toán</span>	2023-04-15	Xem chi tiết
5	Vé tập với PT 3 tháng	2.000 ₫	2023-01-01 - 2023-01-02	<span>Đã thanh toán</span>	2023-04-12	Xem chi tiết

<b>ID and Name:</b>	59 - view history order ticket trainer	<b>Actor:</b>	Admin, Customer
<b>Description:</b>	This function allows actors to view history order ticket trainer		
<b>Trigger:</b>	When the actor clicks “Avatar icon” on the top right of the navigation bar of GymM Website, then clicks on “Lịch sử hoạt động”		
<b>Preconditions:</b>	PRE-59.1. Actors is logged into GymM. PRE-59.2. The actors click on the avatar icon on the top right of the navigation bar. PRE-59.3. The actor clicks on the “Lịch sử hoạt động” then click “Lịch sử thuê huấn luyện viên”.		
<b>Post-conditions:</b>	POST-59.1. The system displays list order ticket trainer history.		
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>	
	1. The user clicks avatar on the right in the navigation bar then click “Lịch sử hoạt động” after click “Lịch sử thuê huấn luyện viên”.	2. The system displays list order ticket trainer history.	
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	N/A		
<b>Business Rules:</b>	BR-01		

### 3.2.60 View history order ticket class

The screenshot shows the Gym Master website interface. At the top, there is a navigation bar with links: Trang chủ (Home), Vé Viên (Ticket), Huấn Luyện Viên (Trainer), Lớp học (Class), Lịch tập (Schedule), Sản phẩm (Products), Check In (Check-in), and a shopping cart icon. On the far right, there is a user profile for 'Hoàng Hiếu'.

In the main content area, there is a sidebar on the left with links: Lịch sử hoạt động (Activity History), Lịch sử đặt vé vào cửa (Ticket Booking History), Lịch sử thuê huấn luyện viên (Trainer Rental History), Lịch sử tham gia lớp học (Class Participation History), and Lịch sử mua hàng (Purchase History). The main area displays a table titled 'Lịch sử hoạt động' (Activity History) with the following columns: #, Tên lớp học (Class Name), Giá thuê (Rental Price), Thời hạn (Time Period), Tình trạng thanh toán (Payment Status), and Ngày thuê (Date). One row is shown: '1 Vé tập thử lớp PT Lương 100.000 ₫ 2023-05-01 - 2023-05-26 Đang bán / còn hạn 2023-04-16 Xem chi tiết' (Trial class for PT Lương 100,000 ₫ Valid from 2023-05-01 to 2023-05-26 Available / still valid 2023-04-16 View details).

<b>ID and Name:</b>	60 - view history order ticket class	<b>Actor:</b>	Admin, Customer		
<b>Description:</b>	This function allows actors to view history order ticket class				
<b>Trigger:</b>	When the actor clicks "Avatar icon" on the top right of the navigation bar of GymM Website, then clicks on "Lịch sử hoạt động"				
<b>Preconditions:</b>	PRE-60.1. Actors is logged into GymM. PRE-60.2. The actors click on the avatar icon on the top right of the navigation bar. PRE-60.3. The actor clicks on the "Lịch sử hoạt động" then click "Lịch sử tham gia lớp học".				
<b>Post-conditions:</b>	POST-60.1. The system displays list order ticket trainer history.				
<b>Normal Flows:</b>	<b>Actor actions</b>	<b>System response</b>			
	1. The user clicks avatar on the right in the navigation bar then click "Lịch sử hoạt động" after click "Lịch sử tham gia lớp học".	2. The system displays list order ticket class history.			
<b>Alternative Flows:</b>	N/A				
<b>Exception Flows:</b>	N/A				
<b>Business Rules:</b>	BR-01				

### 3.2.61 View history order product

localhost:8080/customer/product-order-log#

<b>ID and Name:</b>	61 - view history order ticket product	<b>Actor:</b>	Admin, Customer, Staff
<b>Description:</b>	This function allows actors to view history order product		
<b>Trigger:</b>	When the actor clicks “Avatar icon” on the top right of the navigation bar of GymM Website, then clicks on “Lịch sử hoạt động”		
<b>Preconditions:</b>	PRE-61.1. Actors is logged into GymM. PRE-61.2. The actors click on the avatar icon on the top right of the navigation bar. PRE-61.3. The actor clicks on the “Lịch sử hoạt động” then click “Lịch sử mua hàng”.		
<b>Post-conditions:</b>	POST-60.1. The system displays list order ticket trainer history.		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. The user clicks avatar on the right in the navigation bar then click “Lịch sử hoạt động” after click “Lịch sử mua hàng”.	<b>System response</b> 2. The system displays list order product history.	
<b>Alternative Flows:</b>	N/A		
<b>Exception Flows:</b>	N/A		
<b>Business Rules:</b>	BR-01		

### 3.2.62 Log out

<b>ID and Name:</b>	62 - Log out	<b>Actor:</b>	Admin, Staff, Trainer,Customer
<b>Description:</b>	The function allows actors to sign out the system		
<b>Trigger:</b>	When the actors logged out the system.		
<b>Preconditions:</b>	PRE-62.1. Actors have logged out the system. PRE-62.2. Actors click the “Log out” button.		
<b>Post-conditions:</b>	POST-62.1. The system will display the login page		
<b>Normal Flows:</b>	<b>Actor actions</b> 1. Click avatar in the top right corner. 2.Click the “Log out” button.	<b>System response</b> 3. The system authenticates logout successfully and redirects to the login page.	

<b>Alternative Flows:</b>	N/A
<b>Exception Flows:</b>	N/A
<b>Business Rules:</b>	BR-31, BR-32

## 4. Non-Functional Requirements

### 4.1 External Interfaces

#### ***4.1.1 User Interfaces***

UI-01: The user interfaces must be simple, friendly.

UI-02: Icons used must be easy to recognize.

UI-03: The application supports Vietnamese only.

UI-04: The label of the input field and error message must be meaningful.

#### ***4.1.2 Software Interfaces***

SI-1: PostgreSQL: (version 14 or higher): used for relational data storage

SI-1.1: The database server is secured by a PostgreSQL account, so the .NET Client must have a specific username/password to connect to the server.

SI-2: Web browser: used for web application

SI-2.1: Browser Google Chrome (version 104 or higher), Microsoft Edge, Firefox,... or with any web browser that supports HTML and CSS.

SI-3: File Storage Service: The system can integrate storage Service and use its upload file API.

SI-4: For system handlers, it requires Windows 10 (Professional edition version 1909 or higher).

#### ***4.1.3 Hardware Interfaces***

HI: Computer or laptop use operating system windows has connect network

#### ***4.1.4 Communication Interfaces***

CI-1: HTTP Protocol is used for communication between web browsers and servers.

CI-3: The system can send email to notify users.

## 4.2 Quality Attributes

### ***4.2.1 Usability***

USE-1: The web application for the customer should be simple and easy to use with one day training.

USE-2: The web application for the manager should require no more than three days of training to be used.

USE-3: The user interface is designed to be easy to use, even for non-IT users.

#### ***4.2.2 Reliability***

REL-1: The likelihood of the system failure is less than 5%

REL-2: Users can use online 24/7, except for maintenance time, the system will notify users in advance via email and notice on the website.

REL-3: Downtime for system repair is less than 3 hours

#### ***4.2.3 Performance***

PER-1: Response time is equal to or less than 30 seconds for each request.

PER-3: All privacy information such as password is encrypted to ensure security.

PER-4: The system always checks for authorization and authentication before doing any features.

#### ***4.2.4 Security Requirements***

SEC-1: Each user in the system only can do what they have permission to do.

SEC-2: All input data are validated before saving to the database.

SEC-3: Spring security is used for authentication and authorization.

## 5. Requirement Appendix

### 5.1 Business Rules

ID	Rule Definition
BR-01	Devices must be connected to the internet and server.
BR-02	The Email must not be empty.
BR-03	The email must be valid.
BR-04	Email already exists in the system.
BR-05	The Email does not exist or not registered
BR-06	The Password must not be empty.
BR-07	Password must be more than 8 characters
BR-08	Password must contain at least 1 lowercase letter, 1 uppercase letter, 1 number
BR-09	The Phone must not be empty.
BR-10	The phone number cannot be entered with letters or characters, it must be 9-10 numbers starting with 03, 05, 07, 08, 09.
BR-11	The re-enter password must not be empty.
BR-12	The re-enter password does not match with the password
BR-13	The Name must not be empty.
BR-14	Name can only enter letters, no characters
BR-15	The Address must not be empty.
BR-16	The age must not be empty.
BR-17	Total days must be a number.
BR-18	The Type must not be empty.
BR-19	Type already exists
BR-20	The Price must not be empty.
BR-21	Price must be a number.
BR-22	The Note must not be empty.
BR-23	The Status must not be empty.
BR-24	The Total days must not be empty.
BR-25	Can't book schedule on past dates
BR-26	Book trainer only if you have booked Ticket Trainer and Ticket.
BR-27	Book Ticket Trainer only if you have booked Ticket.
BR-28	The Image must not be empty.
BR-29	image format must be correct
BR-30	The quantity must not be empty.
BR-31	Inactive account cannot log in the system
BR-32	When the user signs out, the access token is deleted
BR-33	'CCCD' must not be empty
BR-34	"Chức vụ người dùng" must not be empty

BR-35	Already have a bank account.
BR-36	payment account registered for Banking.
BR-37	The 'số thẻ' must not be empty.
BR-38	The 'tên chủ thẻ' must not be empty.
BR-39	The 'ngày phát hành' must not be empty.
BR-40	The 'số thẻ' must be valid.
BR-41	The 'tên chủ thẻ' must be valid.
BR-42	The 'ngày phát hành' must be valid.
BR-43	The amount in the checking account is more than the total payment.
BR-44	The amount is positive integer
BR-45	Book schedule only if you have booked Ticket Trainer and Ticket.
BR-46	The 'số lần lặp' must not be empty if dropdown 'lặp định kỳ' has a value.
BR-47	Book class tickets only when max members are not full.
BR-48	Can't book more than 10 tickets in the same gym time frame.
BR-49	Do not set a date to coincide with someone else's calendar.
BR-50	In 1 day, 1 ticket can only book 1 training time frame.
BR-51	Entry ticket is valid/not defective
BR-52	The number of years of experience of the PT cannot be empty
BR-53	The admin can filter status of account
BR-54	Training schedule must be choose
BR-55	Class hasn't started yet
BR-56	Attendance cannot be updated once the date has passed
BR-57	You have to take attendance of the students first
BR-58	You must have entry ticket first

## 5.2 Common Requirements

The confirmation pop-up is used for confirmation and cancellation actions.

## 5.3 Application Messages List

#	Message code	Message Type	Context	Content
1	MSG1	Notification	Cannot connect to the server	<i>Không thể kết nối đến máy chủ.</i>

#	Message code	Message Type	Context	Content
2	MSG2	Notification	The account has been blocked	<i>Tài khoản đã bị chặn.</i>
3	MSG3	Notification	Email/ Password is not correct	<i>Email không chính xác</i>
4	MSG4	Notification	Email is invalid	<i>Account email and entered email do not match.</i>
5	MSG5	Notification	Required field is empty	<i>Required field is empty</i>
6	MSG6	Notification	Email is empty	<i>Empty input email</i>
7	MSG7	Notification	Password is empty	<i>Empty input password</i>
8	MSG8	Notification	The inputted old or new password when change password is invalid	<i>The inputted old or new password when change password is invalid</i>
9	MSG9	Notification	Email available	<i>Email already exists</i>
10	MSG10	Notification	Phone is not valid	<i>Số điện thoại không được nhập chữ, kí tự, bắt buộc phải 10 số bắt đầu là 03, 05, 07, 08, 09.</i>
11	MSG11	Notification	Password must be more than 8 characters	<i>Password must be more than 8 characters</i>
12	MSG12	Notification	Password is invalid	<i>Password must contain at least 1 lowercase letter, 1 uppercase letter, 1 number, and 1 special character</i>
13	MSG13	Notification	The re-enter password does not match with the password	<i>Mật khẩu và nhập lại mật khẩu phải giống nhau.</i>
14	MSG14	Notification	Empty input name	<i>Empty input name</i>
15	MSG15	Notification	Empty input Phone	<i>Empty input Phone</i>
16	MSG16	Notification	Empty input re-enter password	<i>Empty input re-enter password</i>
17	MSG17	Notification	wrong information displayed	<i>Wrong information displayed</i>
18	MSG18	Notification	display wrong format	<i>Display wrong format</i>
19	MSG19	Notification	Incorrect password	<i>Incorrect password</i>
20	MSG20	Notification	New password is empty	<i>New password is empty</i>

#	Message code	Message Type	Context	Content
21	MSG21	Notification	Confirmed password is empty	<i>Confirmed password is empty</i>
22	MSG22	Notification	Account email and entered email do not match	<i>Email nhập không tồn tại hoặc chưa đăng ký</i>
23	MSG23	Notification	Name is empty	<i>Name is empty</i>
24	MSG24	Notification	Name is invalid	<i>Name is invalid</i>
25	MSG25	Notification	Email is invalid	<i>Email không đúng với định dạng.</i>
26	MSG26	Notification	Date of birth is empty	<i>Date of birth is empty</i>
27	MSG27	Notification	Address is empty	<i>Address is empty</i>
28	MSG28	Notification	Type empty	<i>Type empty</i>
29	MSG29	Notification	Type already exists	<i>Type already exists</i>
30	MSG30	Notification	Price empty	<i>Price empty</i>
31	MSG31	Notification	Note empty	<i>Note empty</i>
32	MSG32	Notification	Status empty	<i>Status empty</i>
33	MSG33	Notification	Total days empty	<i>Total days empty</i>
34	MSG34	Notification	Total days is invalid	<i>Total days is invalid</i>
35	MSG35	Notification	Price is invalid	<i>Price is invalid</i>
36	MSG36	Notification	display wrong format	<i>Display wrong format</i>
37	MSG37	Notification	has a training schedule with Customer	<i>Locked account is a trainer and has a training schedule with Customer</i>
38	MSG38	Notification	Have not booked tickets	<i>User has not booked a ticket</i>
39	MSG39	Notification	Unregistered Coach category	<i>User has not booked a Ticket Trainer</i>
40	MSG40	Notification	You may want to delete	<i>You may want to delete</i>
41	MSG41	Notification	Update successfully	<i>Update successfully</i>
42	MSG42	Notification	image empty	<i>Image empty</i>
43	MSG43	Notification	image format incorrectly	<i>Image format incorrectly</i>
44	MSG44	Notification	name already exists	<i>Name product already exists</i>
45	MSG45	Notification	quantity empty	<i>Quantity empty</i>

#	Message code	Message Type	Context	Content
46	MSG46	Notification	successful ticket booking	Successful ticket purchase
47	MSG47	Notification	successful ticket trainer booking	Successful ticket trainer purchase
48	MSG48	Notification	lock account	You can't lock account
49	MSG49	Notification	not choose information PT to buy ticket	Lỗi hệ thống
50	MSG50	Notification	not choose information class to buy ticket	Lỗi hệ thống
51	MSG51	Notification	book schedule on the days that have passed	Bạn không thể đặt lịch vào những ngày đã qua
52	MSG52	Notification	have not booked the trainer ticket yet	Have not booked the trainer ticket yet
53	MSG53	Notification	The 'số thẻ' empty.	The 'số thẻ' empty.
54	MSG54	Notification	The 'tên chủ thẻ' empty.	The 'tên chủ thẻ' empty.
55	MSG55	Notification	The 'ngày phát hành' empty.	The 'ngày phát hành' empty.
56	MSG56	Notification	The 'số thẻ' must be valid.	The 'số thẻ' must be valid.
57	MSG57	Notification	The 'tên chủ thẻ' must be valid.	The 'tên chủ thẻ' must be valid.
58	MSG58	Notification	The 'ngày phát hành' must be valid.	The 'ngày phát hành' must be valid.
59	MSG59	Notification	Payment success.	Payment success.
60	MSG60	Notification	payment failed.	Payment failed.
61	MSG61	Notification	citizen identification empty	<i>citizen identification empty</i>
62	MSG62	Notification	Gender is empty	Gender is empty
63	MSG63	Notification	Years of experience is empty	Years of experience is empty
64	MSG64	Notification	Haven't selected a customer yet	Haven't selected a customer yet
65	MSG65	Notification	Payment must be greater than payable	The amount paid by the customer must be greater than

#	Message code	Message Type	Context	Content
				the amount paid by the customer
66	MSG66	Notification	Your ticket has expired	Your ticket has expired
67	MSG67	Notification	You don't have a ticket yet	You don't have a ticket yet
68	MSG68	Notification	Class name is empty	Class name is empty
69	MSG69	Notification	training schedule is empty	training schedule is empty
70	MSG70	Notification	Class hasn't started yet	Class hasn't started yet
71	MSG71	Notification	Attendance cannot be updated once the date has passed	Attendance cannot be updated once the date has passed
72	MSG72	Notification	The class is out of slots	The class is out of slots