Movie Theater

Software Requirements Specification

Version 1.2

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Approval Page

Prepared by :

Business Analyst

Signature:

_____

Date:

____ /____ / ____

Reviewed by :

Business Analyst

Signature:

_____

Date:

____ /____ / ____

Supported by:

Signature:

_____

Date:

____ /____ / ____

Approved by :

Signature:

_____

Date:

____ /____ / ____

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1. INTRODUCTION

1.1. Purpose

The management system allows to easily perform the functions of the movie theater operation management, especially ticket selling of employees and ticket booking of the users. The biggest goal of the system is to improve the performance of employees, minimize the time to conduct ticket selling with each customer, facilitate booking, increase sales, minimize manpower and make the movie theater more competitive compared with other movie theaters.

The system has user authorization function, so that:

- For users who are customers - not members: can view movie list, view promotions, view ticket prices, view showtimes, register an account, log in.

- For users who are customers - members: the same as customers who are not members, besides, they can book tickets, manage accounts ...

- For users who are employees: view and search members, manage movies, ticket selling, ticket booking, and promotion.

- For users who are shop owners or managers: in addition to the functions of management employee, they can use statistical functions, manage employees, members, cinema rooms...

1.2. In scope

In the movie theatre scope, for learning Mock project, create basic premise for next projects.

2. OVERVIEW

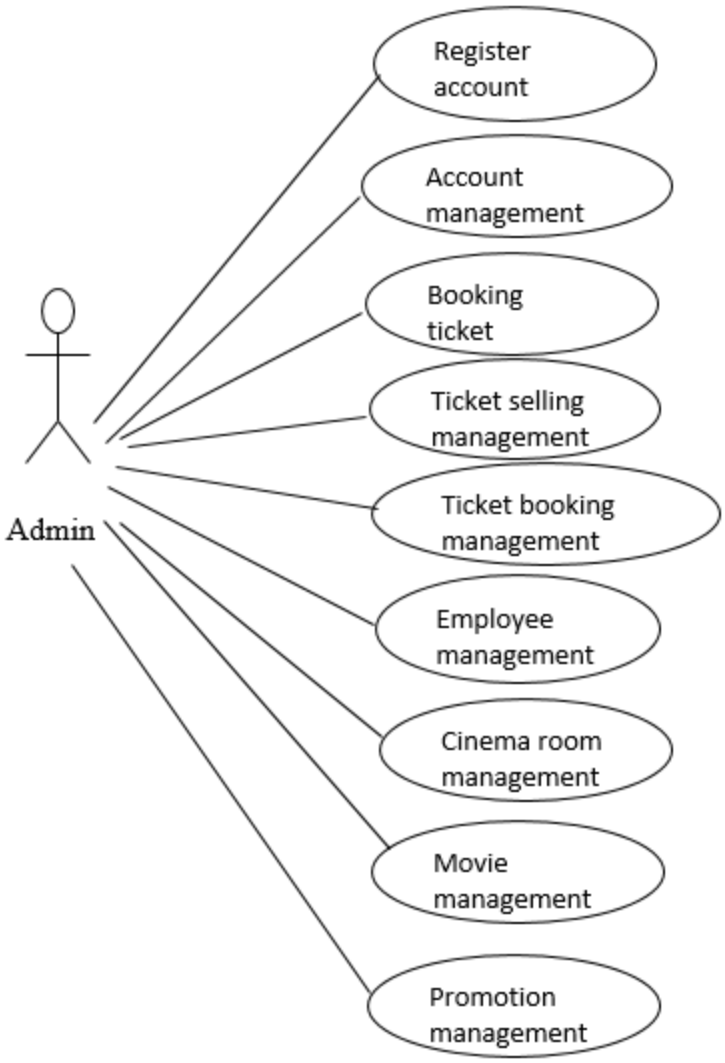
2.1. Actors

The following table describes actors of the movie theatre management system.

Actor		Description
Admin		Actor has the highest right in the system, admin can add, edit, delete all modules in the system.
Employee		Employees who operate directly in the system can manage ticket selling, booking and search for members.
Customer	Not member	Operate directly in the user system, with functions: view movie list, view promotions, view ticket price, showtime, and register accounts
	Member	Operate functions of customers – not members, besides, member customers can book tickets, manage accounts and manage ticket booking.

2.2. USE CASE DIAGRAM

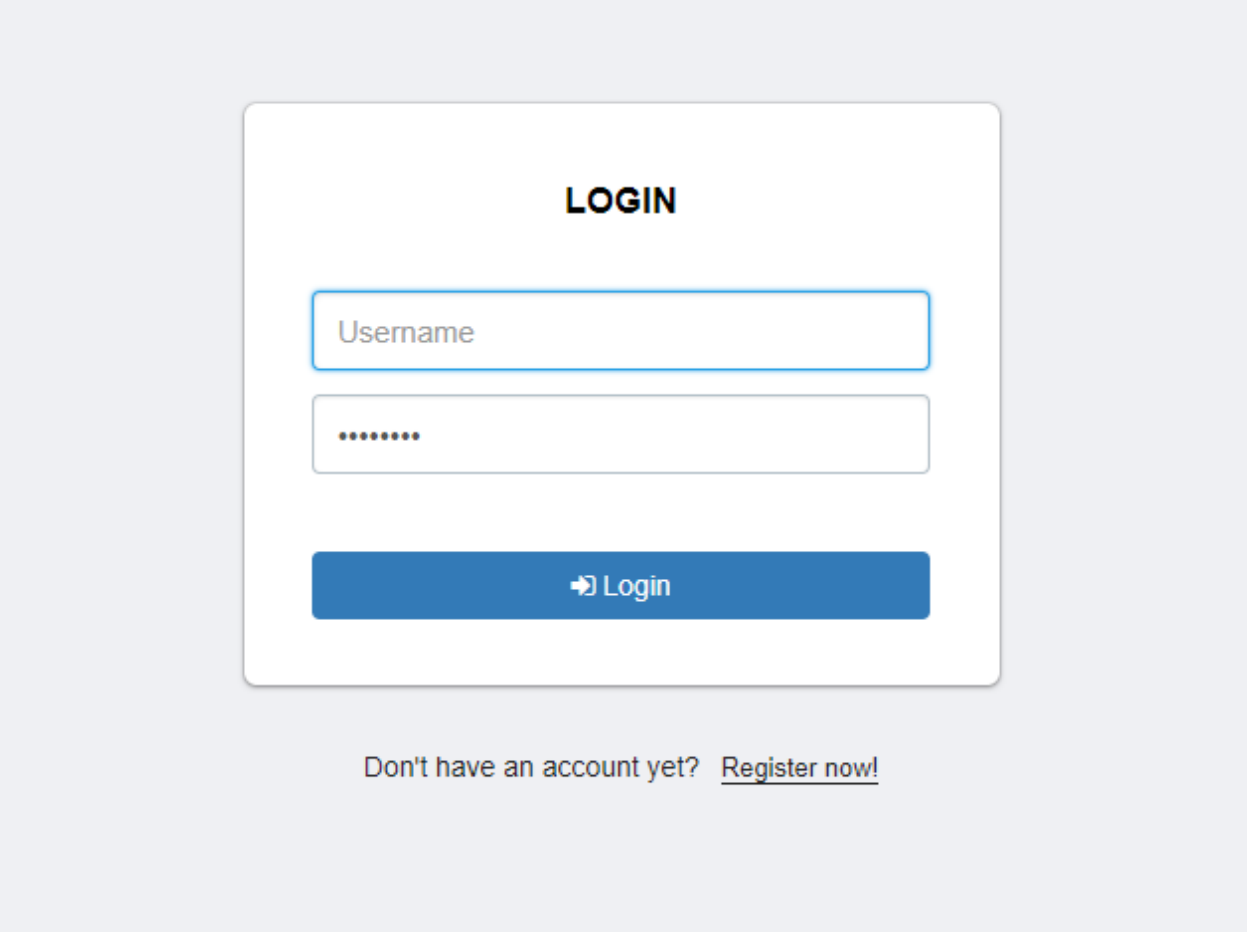
The diagram below provides an overview of the function as well as actors of the users



3. Functional Description

3.1. Functional Requirements

3.1.1 Log in



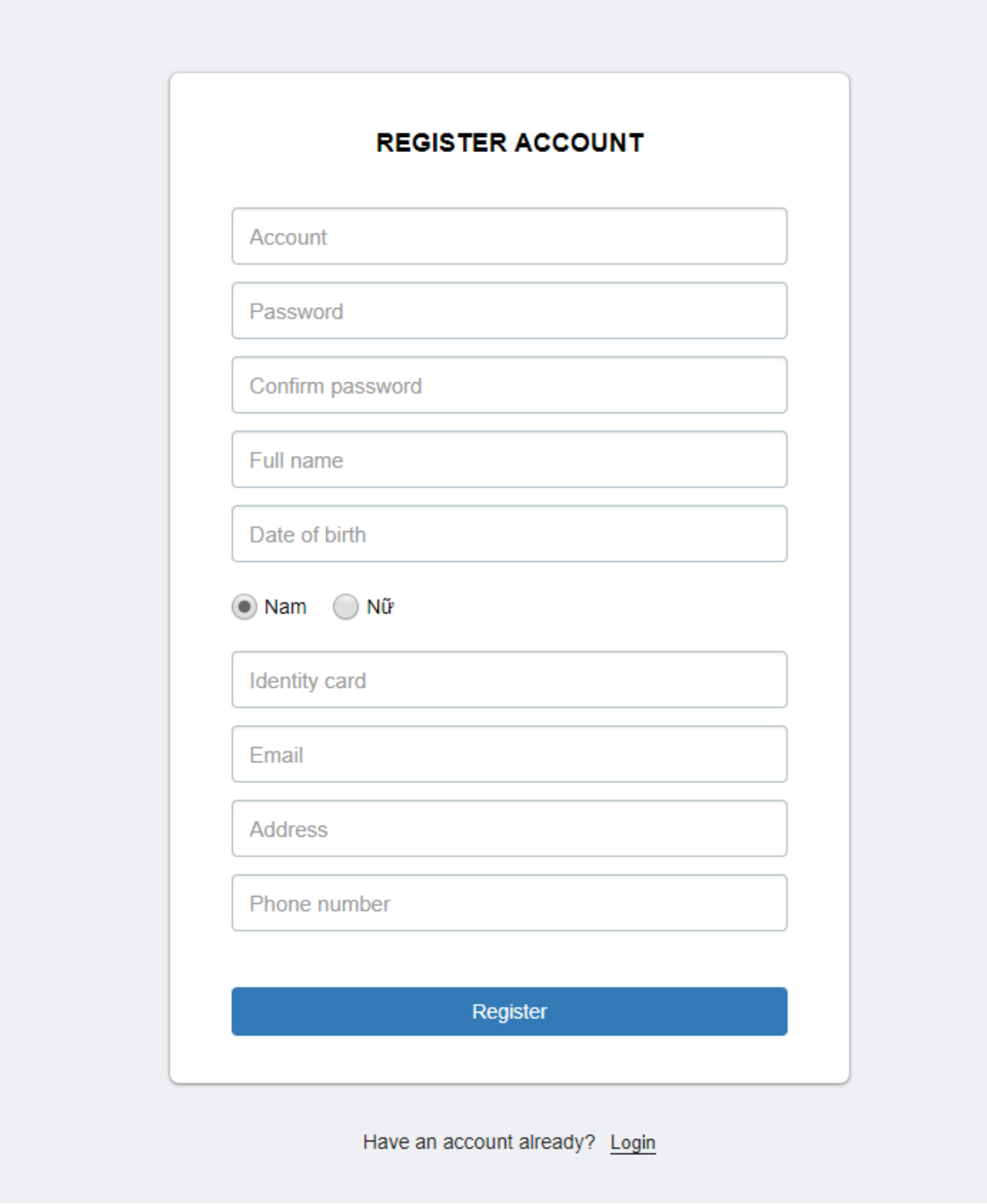
Users must be authenticated with the provided account and password to access the system.

The system provides a login page for users to enter their username and password. The system will verify the entered user information with the user database of the system.
If the account is not found in the system or an account has been found but the entered password does not match the system password, the system will report an error to the user. "User / password is invalid. Please try again!".
If the account is valid but it has been locked, the system will report an error:
"Account has been locked!"
If login successfully, the system will check the assigned roles and bring users to the main screen of the application.

3.1.2 Register account

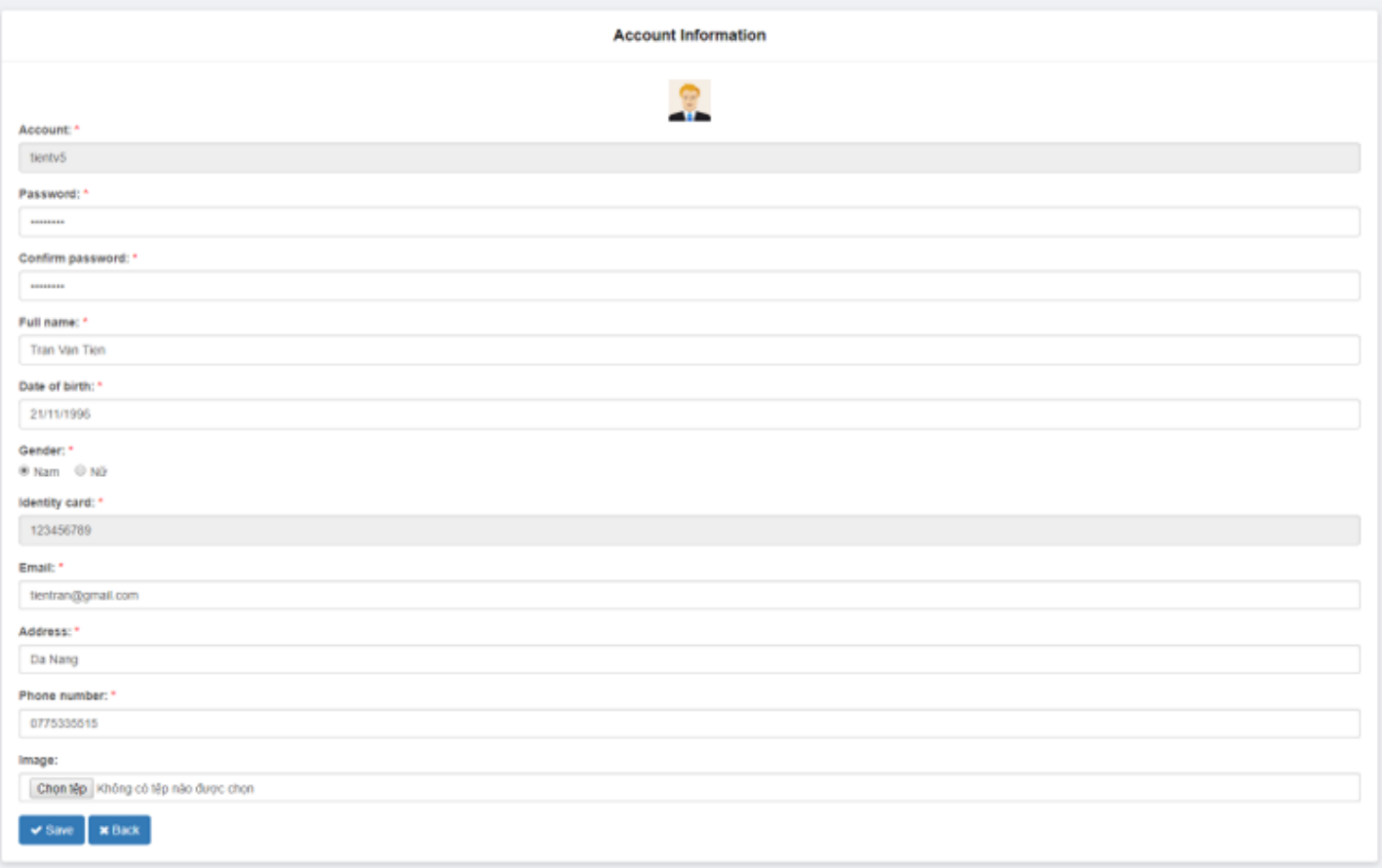
Use Case Name	Register account
Use Case ID	
High Level Requirement Ref	
Actor	User
Description	This is use case which allows the user to register accounts
Trigger	NA
Pre-condition	The user registers account information
Post-processing	

3.1.2.1 Register account



Screen	Register account		
Description	Register user information		
Screen Access	The user clicks Register account		
Screen Content			
Item	**Type**	**Data**	**Description**
Account	Textbox-String	N/A	
Password	TextBox - String	N/A	
Confirm password	Textbox - String	N/A	
Full name	Textbox - String	N/A	
Date of birth	Textbox - String	N/A	
Sex	Radiobutton - String	N/A	
Email	Textbox – String	N/A	
Identity card	Texbox - number	N/A	
Phone number	Textbox - Number	N/A	
Address	Textbox - String	N/A	
Register	Button	N/A	
Screen action			
Action name	**Description**	**Success**	**Failure**
Register	Click Register to send data	Forward to login page to log in the main page	The required fields are null

3.1.2.2 Edit member accounts



Screen	Edit member account		
Description	Display information of member whose account need editting		
Screen Access	The user clicks Edit at Employee list		
Screen Content			
Action name	**Description**	**Success**	**Failure**
Account	Textbox - string	N/A	
Full name	Textbox – string	N/A	
Password	Textbox - string	N/A	
Date of birth	Textbox - date	N/A	
Sex	Radiobutton - string	N/A	
Email	Textbox - string	N/A	
Identity card	Textbox - string	N/A	
Phone number	Textbox - number	N/A	
Address	Textbox - string	N/A	
Ticket management	Link - string	N/A	
Employee management	Link - string	N/A	
Member management	Link - string	N/A	
Statistic	Link - string	N/A	
Edit	Button	N/A	
Screen action			
Action name	**Description**	**Success**	**Failure**

Ticket booking management	View ticket booking list of members	Display booked ticket list of the member	No event has been created for ticket booking management
Employee management	View active employees	Display list of active employees	No event has been created for Employee management
Member management	View list of registered member	Display list of registered members	No event has been created for Member management
Statistic	View statistic list of the shop	Display statistic list of the shop	No event has been created for Statistic
Edit	Update member information if necessary	Display message: "Update information successfully"	The required fields are null Edit Button not yet creates event.

3.1.2.3 View member list

Screen	View member list
Description	Dislay all information of registered member
Screen Access	The user clicks Member management

Screen Content

Item	Type	Data	Description
Member ID	Label - string	N/A	
Member name	Label - string	N/A	
Identity card	Label - string	N/A	
Email	Label - string	N/A	
Phone number	Label - string	N/A	
Address	Label - string	N/A	
Ticket management	Link - string	N/A	
Employee management	Link - string	N/A	
Member management	Link - string	N/A	
Statistic	Link - string	N/A	
Edit	Link - img	N/A	

Screen Action

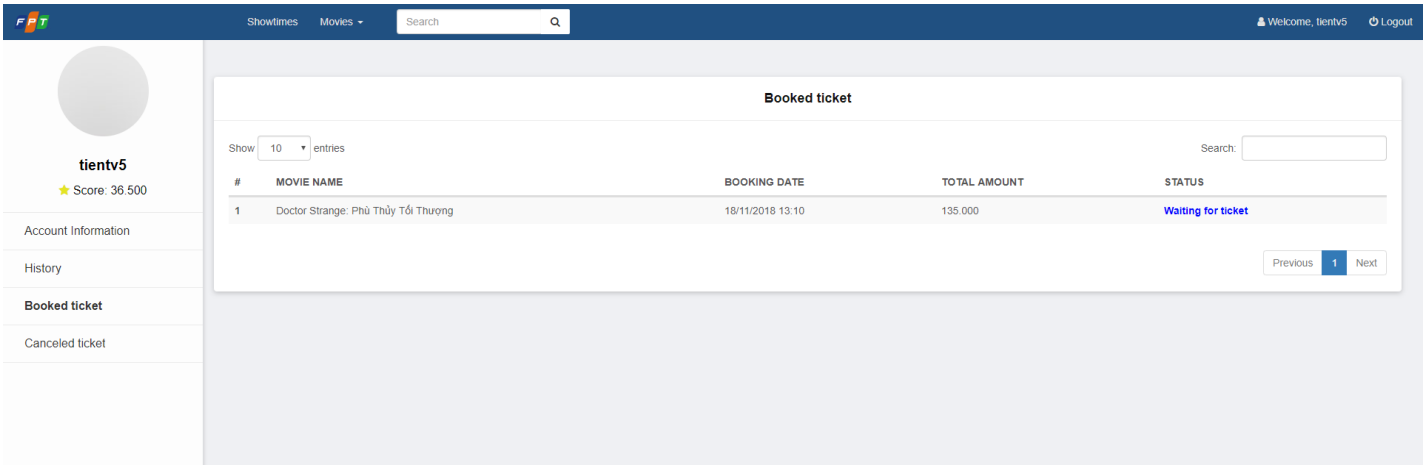
Action name	Description	Success	Failure
Ticket booking management	View ticket booking list of members	Display booked ticket list of the member	No event has been created for ticket booking management

Employee management	View active employees	Display list of active employees	No event has been created for Employee management
Member management	View list of registered member	Display list of registered members	No event has been created for Member management
Statistic	View statistic list of the shop	Display statistic list of the shop	No event has been created for Statistic
Edit	Edit member information if necessary	Display screen of Edit member information	No event has been created for Edit button

3.1.3 Account management of the user

Use Case Name	Account management
Use Case ID	
Actor	Member
Description	This is a use case which allows the users to update information, change password, manage ticket booking, view detail of score adding and use the score.
Trigger	NA
Pre-condition	The user with registered account
Post-processing	

3.1.3.1 The user – Booked ticket management



Screen	Booked ticket management
Description	Display all booked member
Screen Access	Member clicks Account management -> Booked ticket

Screen Content

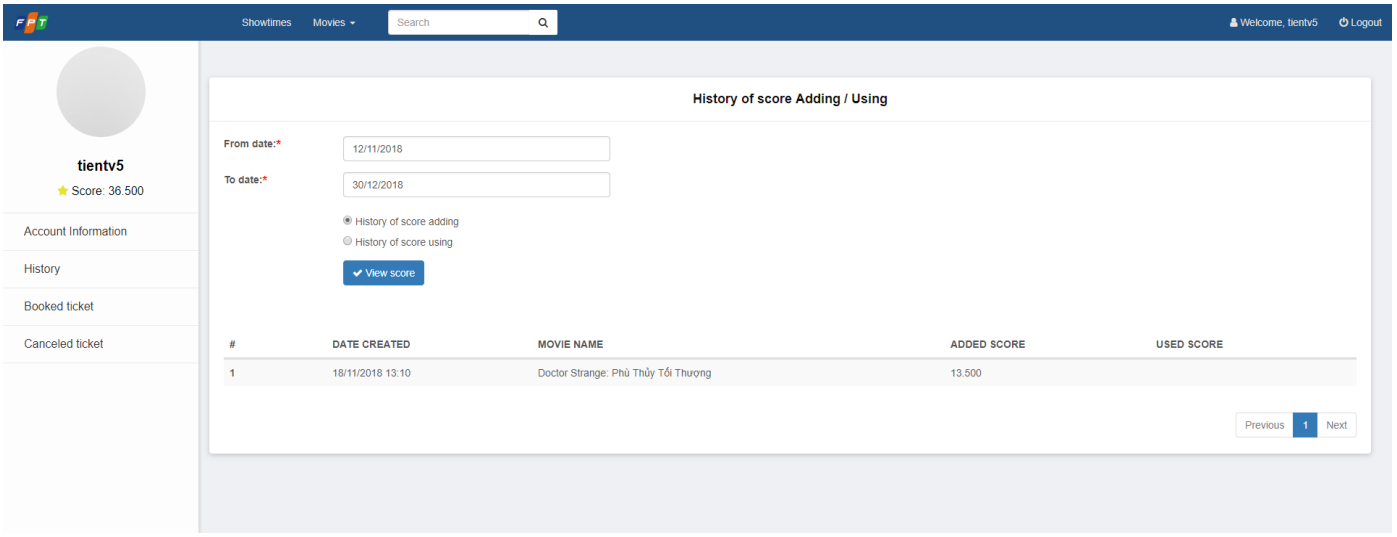
Item	Type	Data	Description
Movie name	label-string	N/A	
Booking date	label-string	N/A	

Total amount	Label - String	N/A	
Status	Label - String	N/A	
Account information	Link - String	N/A	
History	Link - String	N/A	
Booked ticket	Link - String	N/A	
Canceled ticket	Link - String	N/A	
Log out	Button	N/A	

Screen Action

Action name	Description	Success	Failure
Log out	Click the logout button to exit the current member account	Back to the login screen	No event has been created for the logout button

3.1.3.2 The user – View history of score adding/using



Screen	View history of score adding/using
Description	Display all history of score adding/using of the current member
Screen Access	The member clicks account management -> History

Screen Content

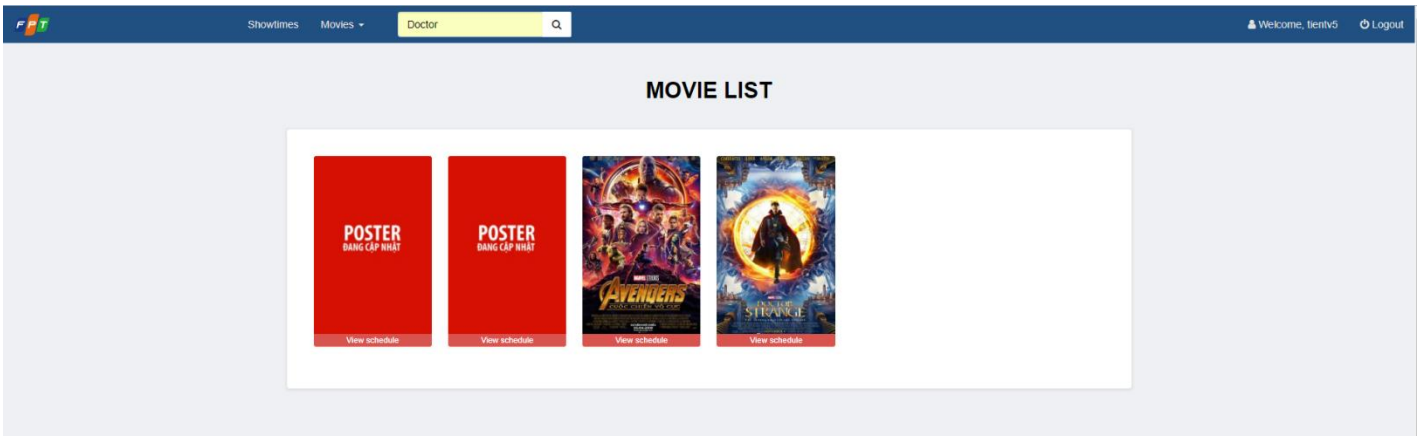
Item	Type	Data	Description
From date	Date - string	N/A	
To date	Date - string	N/A	
History of score adding	Radiobutton-String	N/A	
History of score using	Radiobutton-String	N/A	
Date created	Label - string	N/A	
Movie name	Label - string	N/A	
Added score	Label - string	N/A	
Account information	Link - String	N/A	
History	Link - String	N/A	
Booked ticket	Link - String	N/A	
Canceled ticket	Link - String	N/A	
Log out	Button	N/A	
View score	Button	N/A	

Screen Action

Action name	Description	Success	Failure
Log out	Click the logout button to exit the current member account	Back to the login screen	No event has been created for the logout button
View score	Click the View score button to see the process of using or adding scores	Displays a list of added or used scores	No event has been created for

			the View score button

3.1.3.3 Movie list – Search of the user

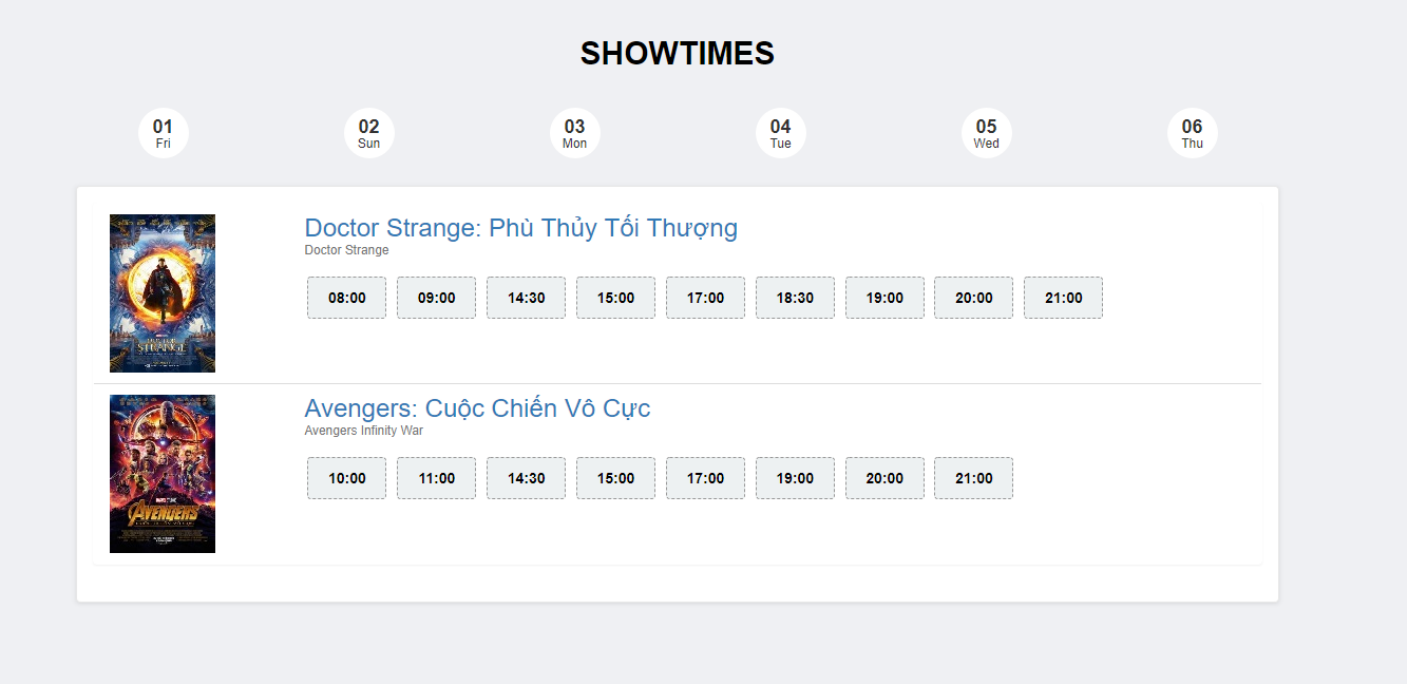


Screen	Movie list - Search		
Description	Search for movie		
Screen Access			
Screen Content			
Item	**Type**	**Data**	**Description**
Search list	Table	N/A	
Search	Button	N/A	
Search	Textbox		
Screen Action			
Action name	**Description**	**Success**	**Failure**
Search	Input data into search box to search	Hide two slides that are about to appear and then display from top to bottom according to the a-z movie with the same movie names	No movies has found as required

3.1.4 Booking ticket of the user

Use Case Name	Booking ticket
Use Case ID	
Actor	Member
Description	This is the use case which allows users to book ticket
Trigger	NA
Pre-condition	The user must login account
Post-processing	

3.1.4.1 Book ticket – Select movie and showtime



Screen	Book ticket – Select movie and showtime
Description	Display the current movies and showtime
Screen Access	The user accesses to book ticket

Screen Content

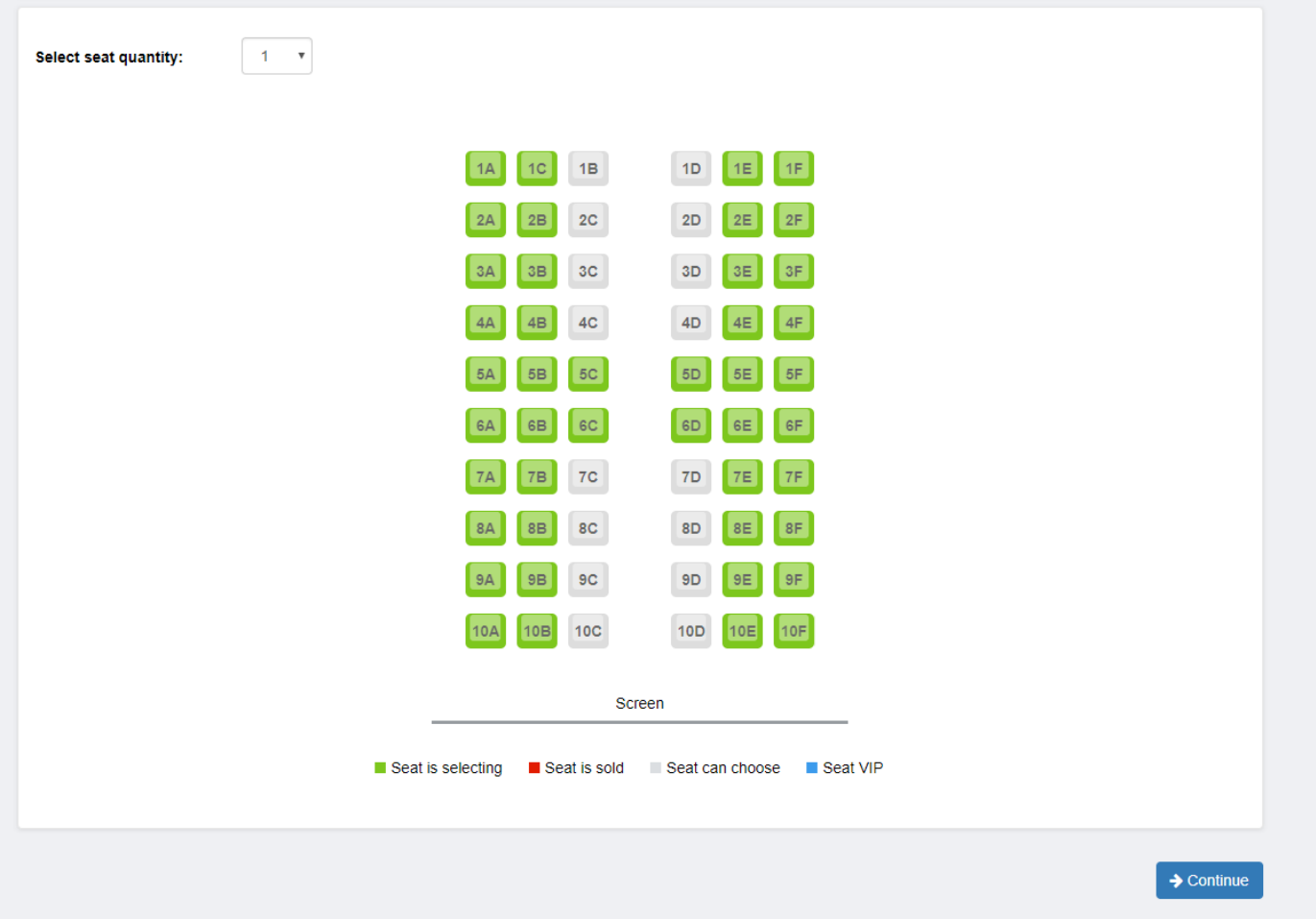
Item	Type	Data	Description
Select movie	Combobox	N/A	Display current movies for users to select
Select date	Combobox	N/A	Display the show date of each selected movie in Select movie combobox for users to select
Select time	Combobox	N/A	Display the showtime of each movie according to the movie and the show date for the user to select
Book ticket	Button	N/A	Send movie information and showtime, display the screen of selecting seat

Screen action

Action name	Description	Success	Failure
Select movie	Display all show dates for the selected movie	Display all the show date of the selected movie in Select movie combobox	The list of show dates is empty when no show date is found
Select date	Display all showtimes of selected movies	Display all showtimes of movies according to the show date selected in Select show date combobox	The list of schedules is empty when no show schedule is found during the day
Book ticket	Send ticket booking request, send movie information and showtime	Display screen of Selecting seat	If you have not selected a movie, display the message "Please select a movie"

			- If the movie show date has not been selected, display the message "Please select the show date" - If showtime has not been selected, display the message "Please select showtime"

3.1.4.2 Booking ticket – Selecting seat



Screen	Booking ticket – Selecting seat
Description	Display seat map of the movie and selected showtime
Screen Access	The user accesses after selecting movie and showtime

Screen Content

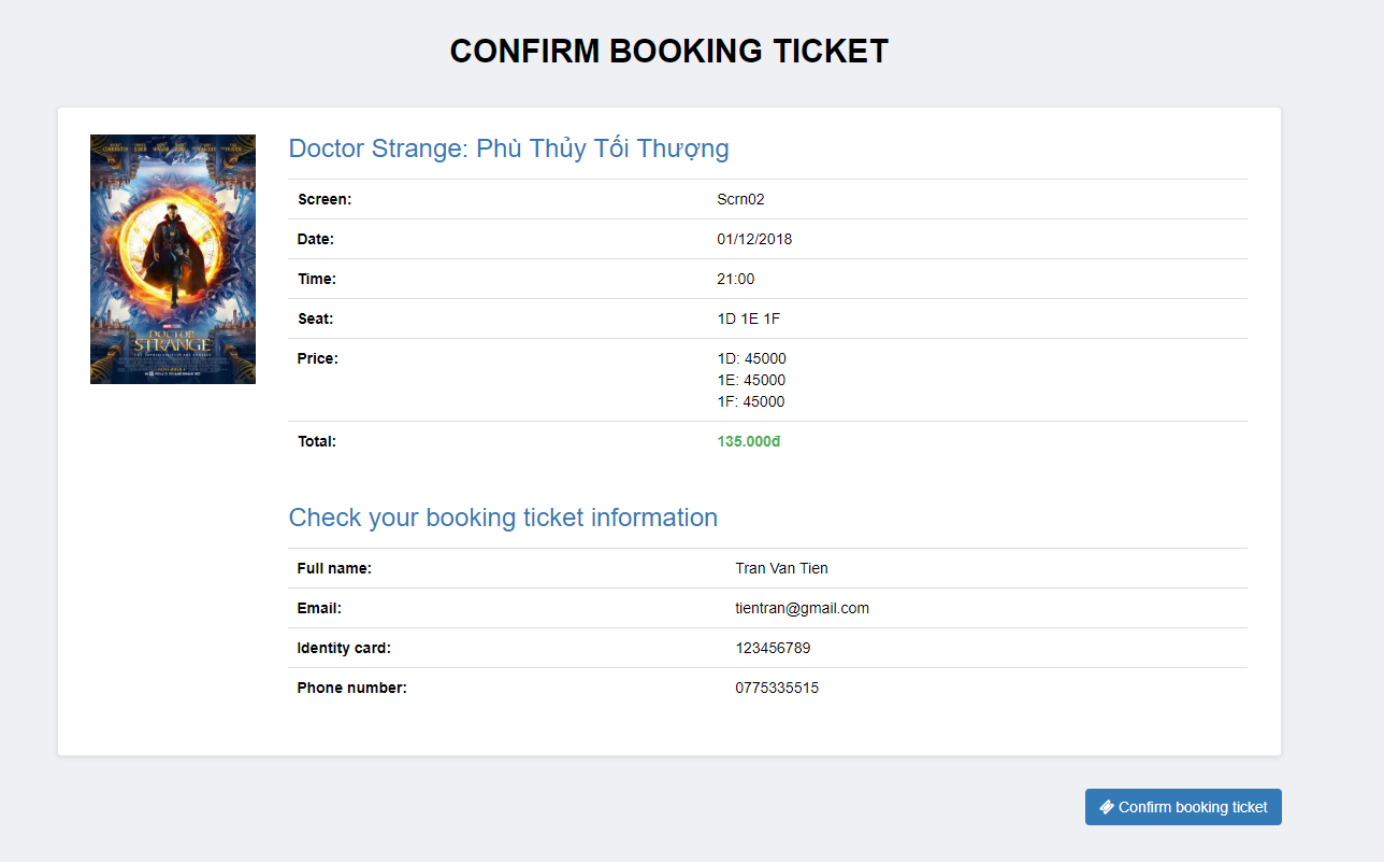
Item	Type	Data	Description
Select seat quantity	Combobox	N/A	Display list of seat quantity for the user to select
Seat	CheckBox	N/A	Display seat map for the user to choose
Continue	Button	N/A	Send information of seat selection and display the screen of ticket booking information

Screen Action

Action name	Description	Success	Failure
Select seat quantity	Display list of seat quantity that customer needs to select (0, 1, 2, …8)	Display list of seat quantity	
Select seat	Display seat map for the customer to choose according to selected seat quantity	When selecting the seat number as the same as selected seat quantity in combobox of Select seat quantity	If selected seat number is less than the seat quantity at the combobox, display the message "Please selecte x seat more" - If selected seat number is more than the seat quantity at the combobox, display the message "Please select only x seat"

Continue	Send ticket booking request, send seat selection information and display booking information screen	Display Confirm booking ticket screen	

3.1.4.3 Booking ticket – Confirm booking ticket



Screen	Booking ticket – Confirm booking ticket
Description	Display all ticket booking informatiom
Screen Access	The user accesses after selecting seat

Screen Content

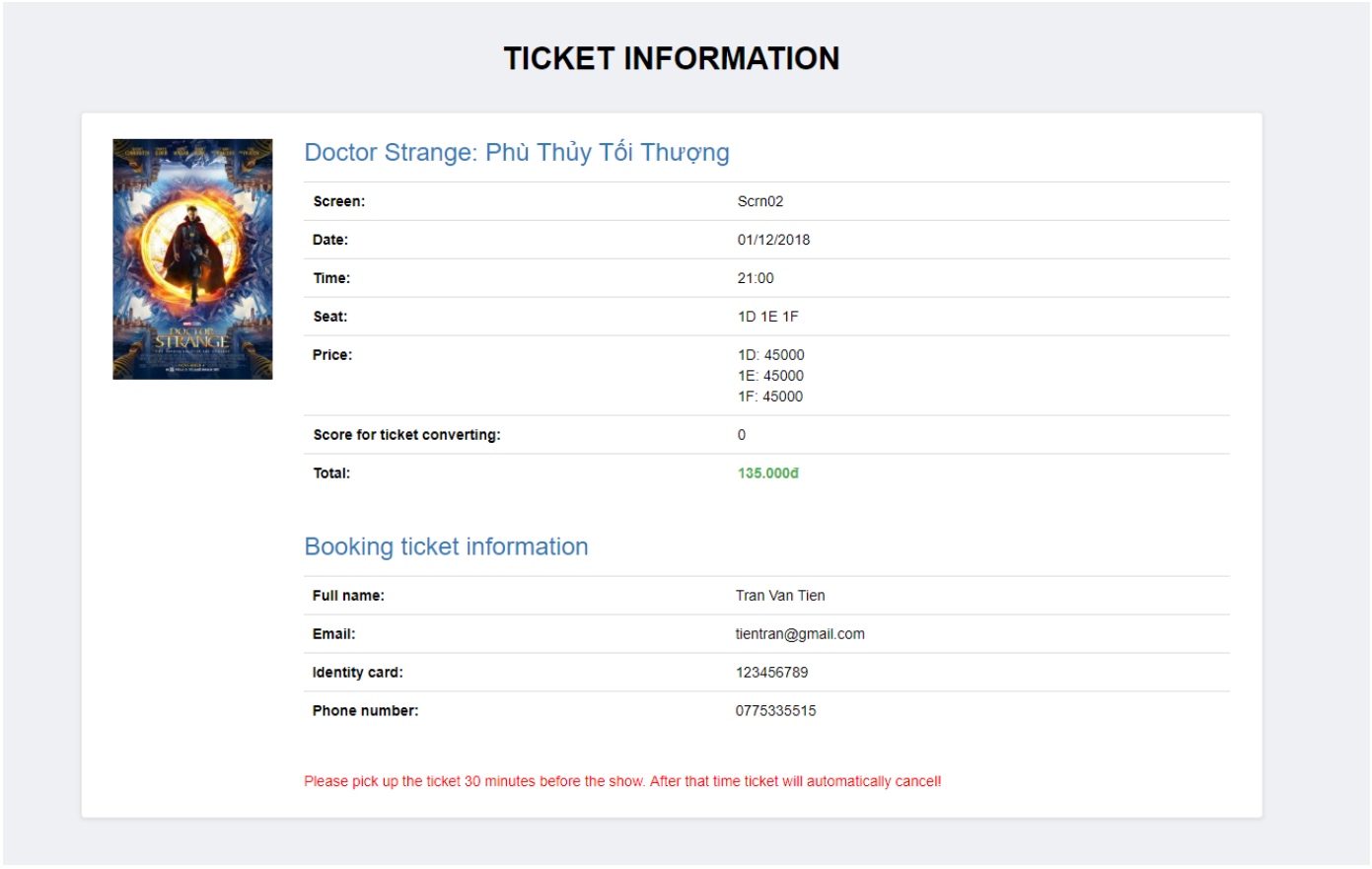
Item	Type	Data	Description
Movie name	Label	N/A	
Screen	Label	N/A	
Date	Label	N/A	
Time	Label	N/A	
Seat	Label	N/A	
Price	Label	N/A	

Total	Label	N/A	
Full name	Label	N/A	
Email	Label	N/A	
Identity card	Label	N/A	
Phone number	Label	N/A	
Confirm booking ticket	Button	N/A	

Screen Action

Action name	Description	Success	Failure
Confirm booking ticket	Select to send all ticket booking information	Display screen of ticket booking information	

3.1.4.4 Booking ticket – Ticket information

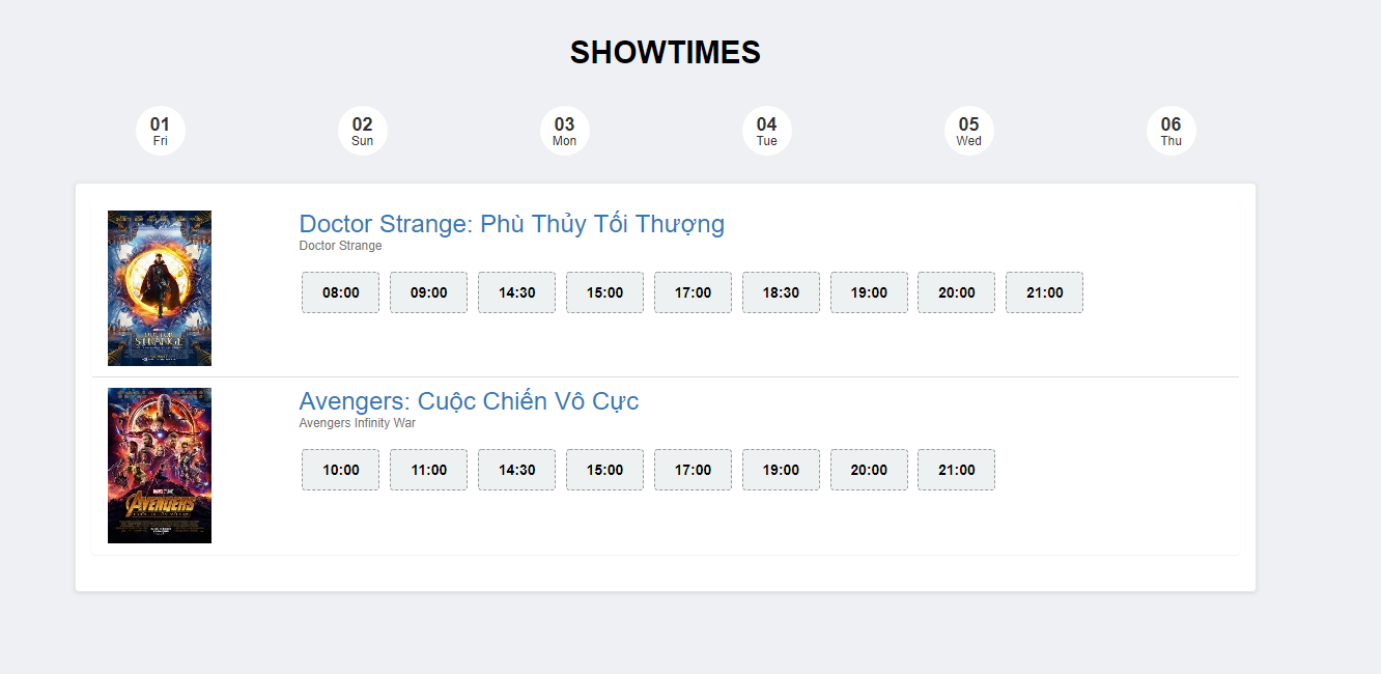


Screen	Booking ticket – Ticket information		
Description	Display all ticket booking information		
Screen Access	The user accesses after seleting seat		
Screen Content			
Item	**Type**	**Data**	**Description**
Movie name	Label	N/A	
Booking ID	Label	N/A	
Screen	Label	N/A	
Date	Label	N/A	
Time	Label	N/A	
Seat	Label	N/A	
Price	Label	N/A	
Total	Label	N/A	
Full name	Label	N/A	
Email	Label	N/A	
Identity card	Label	N/A	
Phone number	Label	N/A	
Screen Action			
Action name	**Description**	**Success**	**Failure**

3.1.5 Ticket selling management

Use Case Name	Ticket selling management
Use Case ID	
High Level Requirement Ref	
Actor	Admin/Manager/Admin
Description	Allows the user to manage selling ticket
Trigger	N/A
Pre-condition	The user must log in the system
Post-processing	

3.1.5.1 Ticket selling management – Select movie and showtime



Screen	Booking ticket – Select movie and showtime
Description	Display current movies and showtime
Screen Access	The user accesses Booking ticket

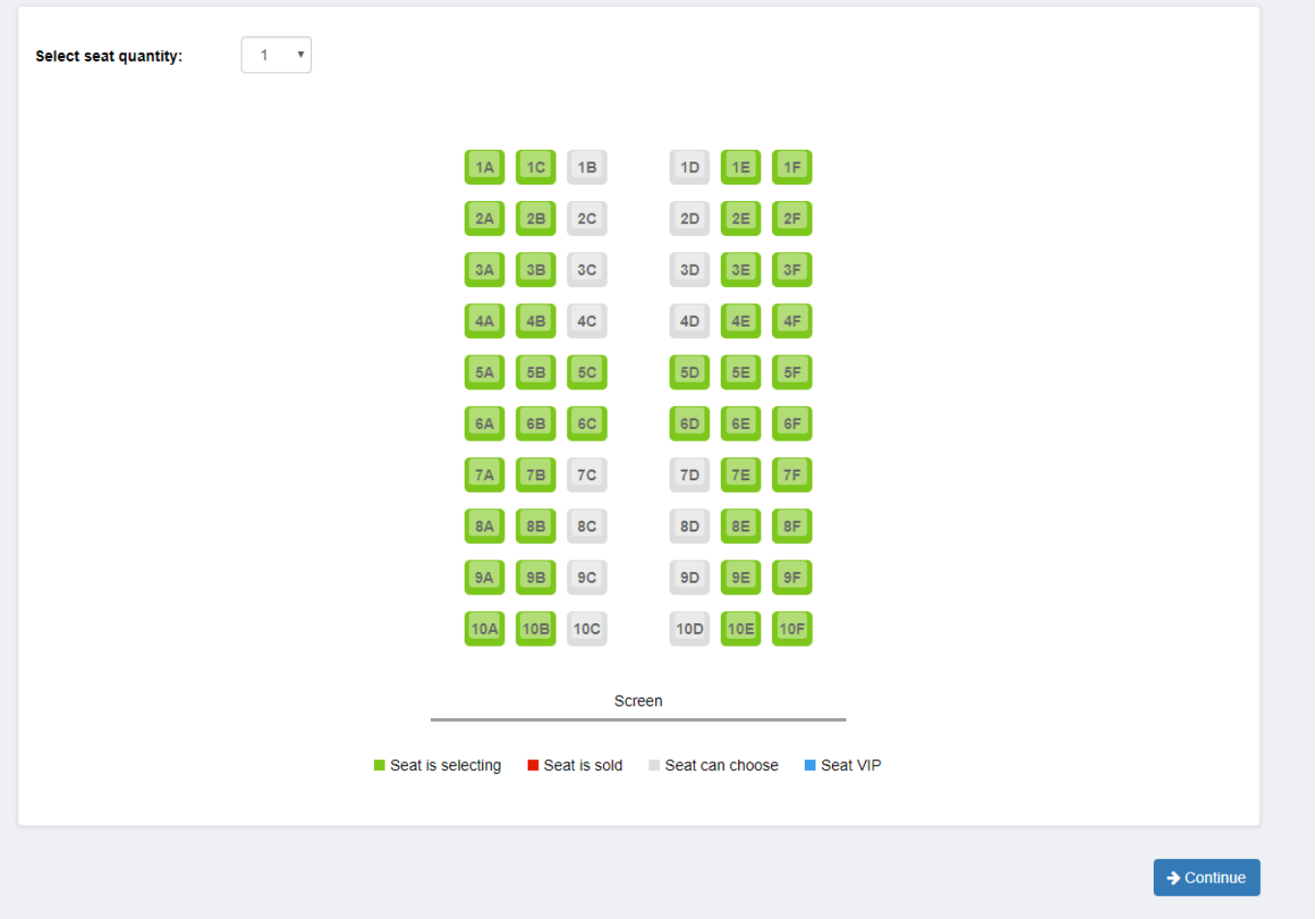
Screen Content

Item	**Type**	**Data**	**Description**
Date	Combobox	N/A	
Showtime	Button	N/A	
Movie name	Label	N/A	
Time	Link	N/A	

Screen Action

Action name	**Description**	**Success**	**Failure**
View showtime	Display list of show dates for the user to select	Display showtime list of current movies	If no showtime has been found, display message: “No showtime”
Showtime	Display showtime of each movie	Send information of movies and showtimes, display the Select seat screen	

3.1.5.2 Ticket selling management – Selecting seat



Screen	Booking ticket – Select seat
Description	Display seat map of the movie and selected showtime
Screen Access	The user accesses after selecting movie and showtime

Screen Content

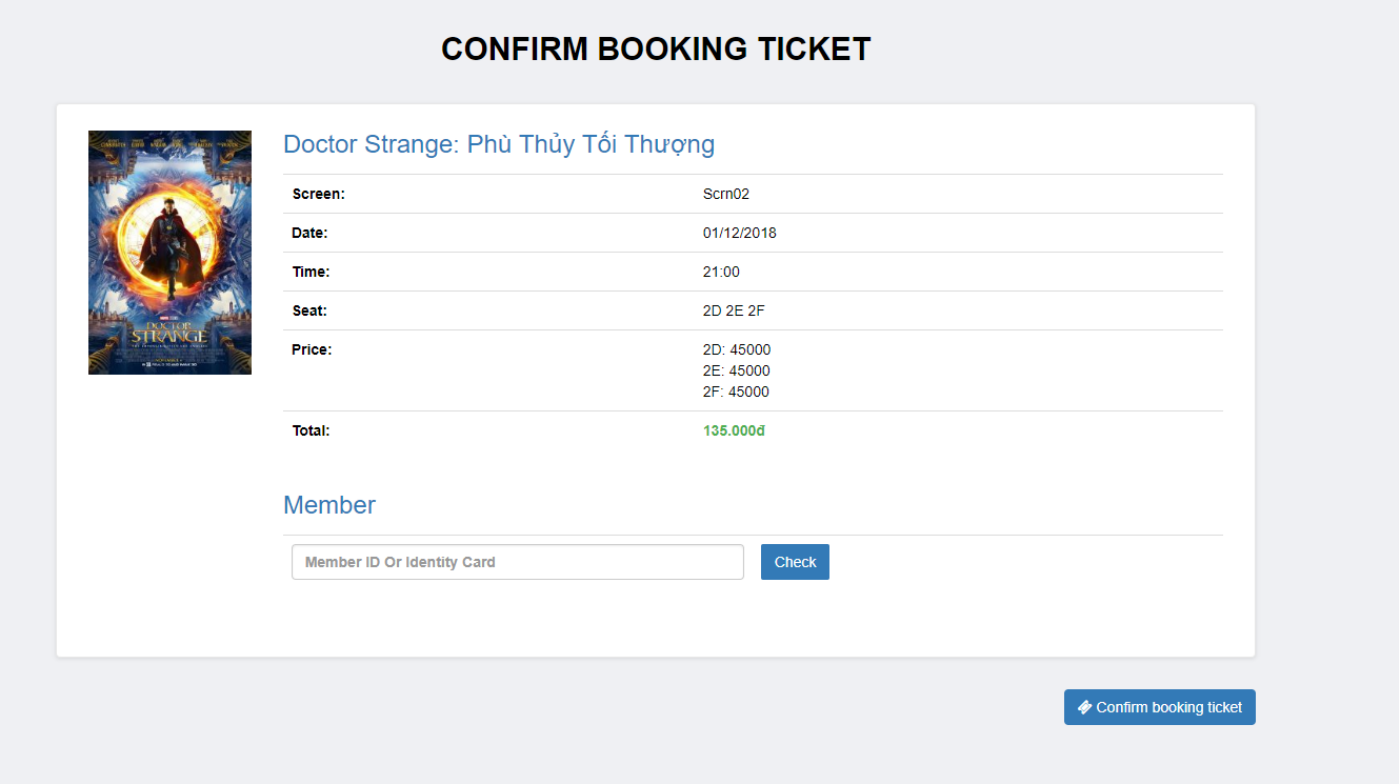
Item	**Type**	**Data**	**Description**
Select seat quanity	Combobox	N/A	Display list of seat quantity for the user to select
Seat	CheckBox	N/A	Display seat map for the user to select
Continue	Button	N/A	Send information of selecting seat and display ticket booking information

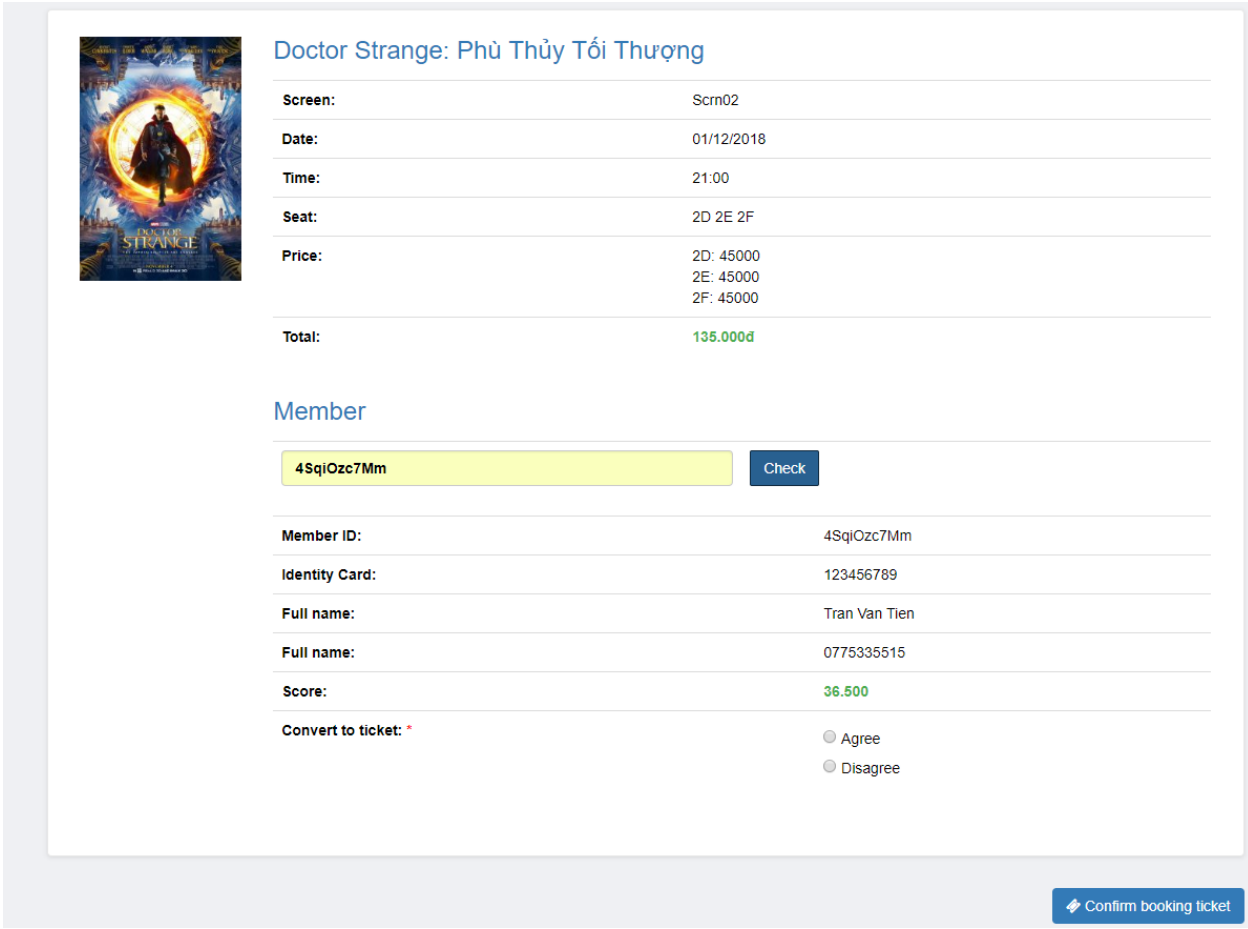
Screen Action

Action name	**Description**	**Success**	**Failure**

Select seat quantity	Display list of seat quantity that customer needs (0, 1, 2, …8)	Display list of seat quantity	
Select seat	Display seat map, the employee chooses seat according to selected seat quantity at Combobox of Select seat quantity.	When selecting the seat number as the same as selected seat quantity in combobox of Select seat quantity	If selected seat number is less than the seat quantity at the combobox, display the message "Please selecte x seat more" - If selected seat number is more than the seat quantity at the combobox, display the message "Please select only x seat"
Continue	Send ticket booking request, send seat selection information and display booking information screen	Display Confirm booking ticket screen	

3.1.5.3 Ticket selling management – Confirm ticket





Screen	Ticket selling management – Confirm ticket
Description	Display all ticket selling information
Screen Access	The user accesses after selecting seat

Screen Content

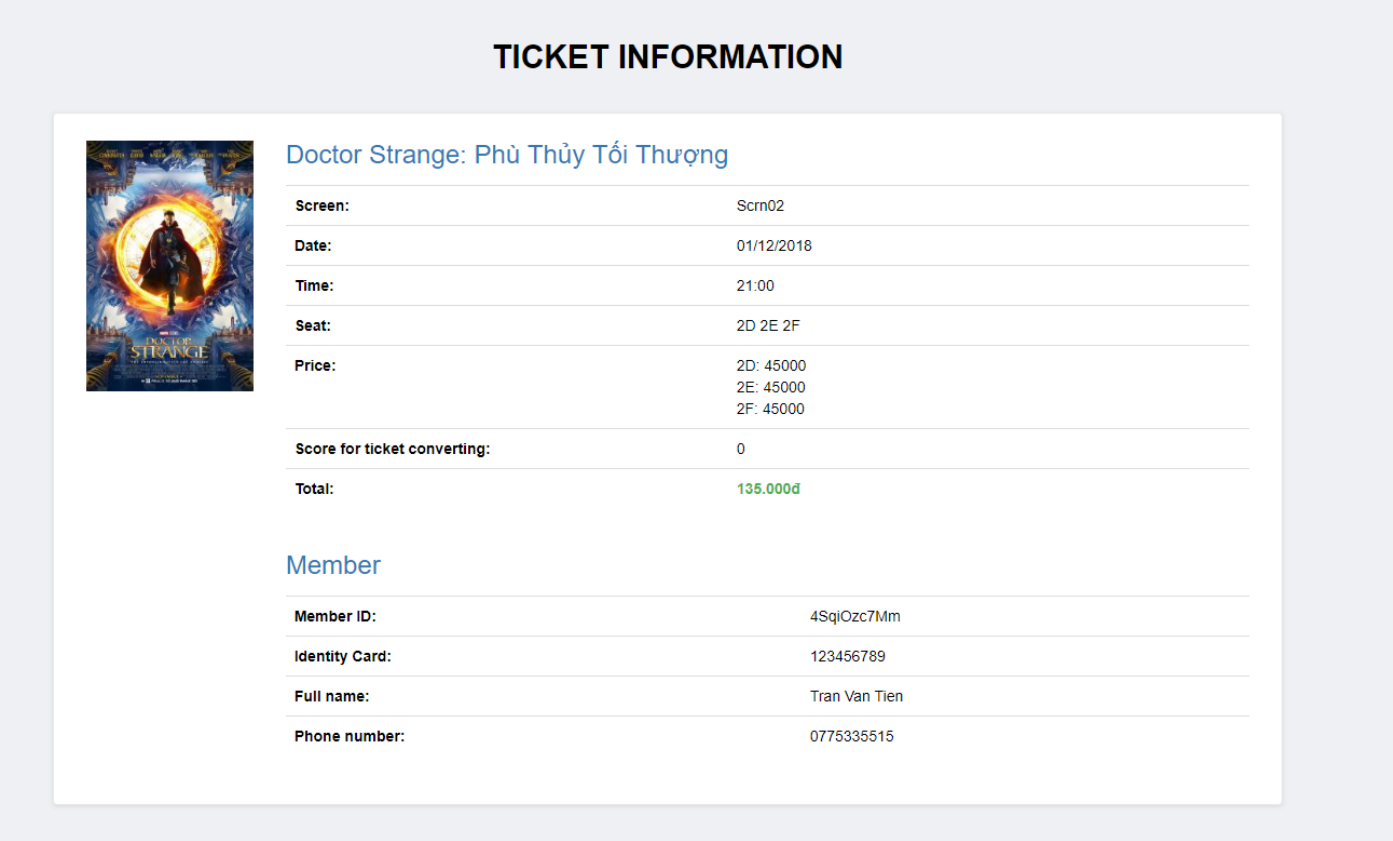
Item	Type	Data	Description
Movie name	Label	N/A	
Screen	Label	N/A	
Date	Label	N/A	
Time	Label	N/A	
Seat	Label	N/A	
Price	Label	N/A	
Total	Label	N/A	
Member	Textbox	N/A	
Check	Button	N/A	
Member ID	Label	N/A	

Identity card	Label	N/A	
Full name	Label		
Member score	Label	N/A	
Convert to ticket	Radio	N/A	
Phone number	Label	N/A	
Confirm booking ticket	Button	N/A	

Screen Action

Action name	Description	Success	Failure
Confirm booking ticket	Select Confirm booking ticket to send all ticket booking information	Send information of ticket selling, display screen of ticket booking information	If the member converts score into ticket, while score is not enough to convert, display message: "Member score is not enough to convert into ticket"
Check member	Input member ID or identity card number to get information of member	Display information of member	Display the message: "No member has found!"
Convert to ticket	Select number of tickets that the member wants to conver into	When number of converted tickets matches with enough member score	

3.1.5.4 Ticket selling management – Ticket information



Screen	Ticket selling management – Ticket information
Description	Display all ticket information
Screen Access	The user accesses after selecting seat

Screen Content

Item	**Type**	**Data**	**Description**
Movie name	Label	N/A	
Ticket booking ID	Label	N/A	
Screen	Label	N/A	
Date	Label	N/A	
Time	Label	N/A	
Seat	Label	N/A	
Price	Label	N/A	
Convert to ticket	Label	N/A	

Score for ticket converting	Label	N/A	
Total	Label	N/A	
Member ID	Label	N/A	
Email	Label	N/A	
Identity card	Label	N/A	
Phone number	Label	N/A	
Screen Action			
Action name	**Description**	**Success**	**Failure**

3.1.6 Ticket booking management

Use Case Name	Ticket booking management
Use Case ID	
High Level Requirement Ref	
Actor	Admin/Manager/Employee
Description	Allows the users to manage ticket booking of members
Trigger	NA
Pre-condition	The user must log in the system
Post-processing	

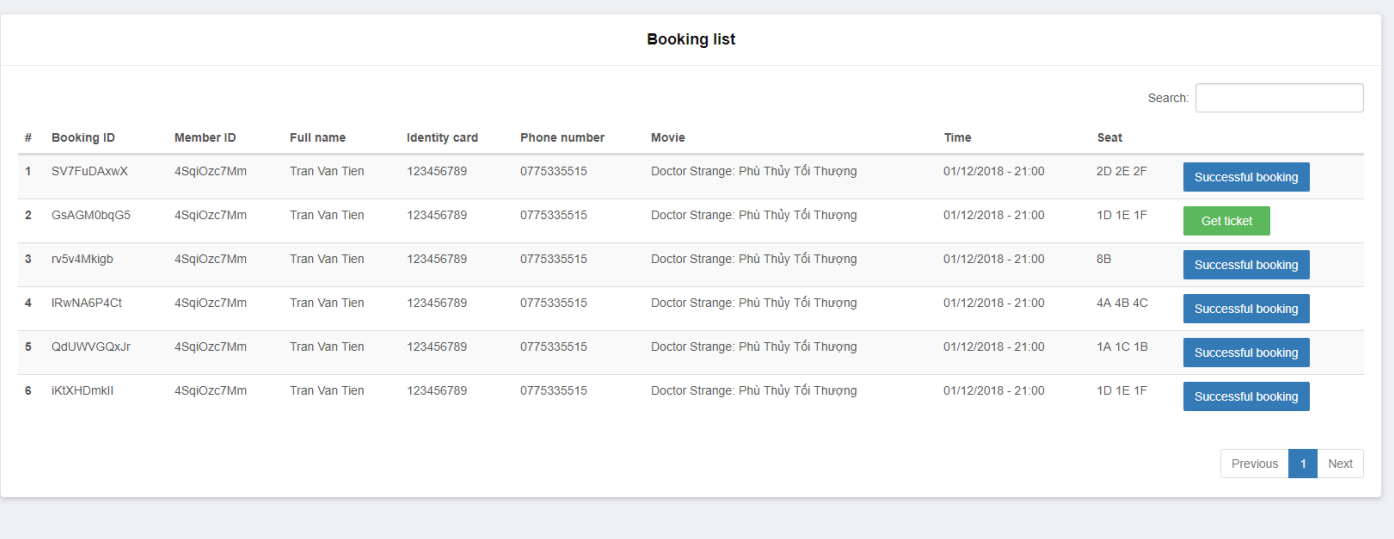
3.1.6.1 Ticket booking management – Search

Screen	Ticket booking management - Search
Description	Display current movies and showtime
Screen Access	The user accesses Ticket booking management

Screen Content			
Item	**Type**	**Data**	**Description**
Search	Textbox	N/A	Input the keywords to search including Booking ID, account ID, phone number or identity card number of booking account
Search	Button	N/A	Select Search button

Screen Action			
Action name	**Description**	**Success**	**Failure**
Search	Click the search button, the booking list will filter the data Filtering data by keyword entered in the search textbox matches with the booking code, account code, phone number or identity card number of the booking account, then display on the list	Display the booking list of the account	Show the message "No booking found!"

3.1.6.2 Ticket booking management – Booking list

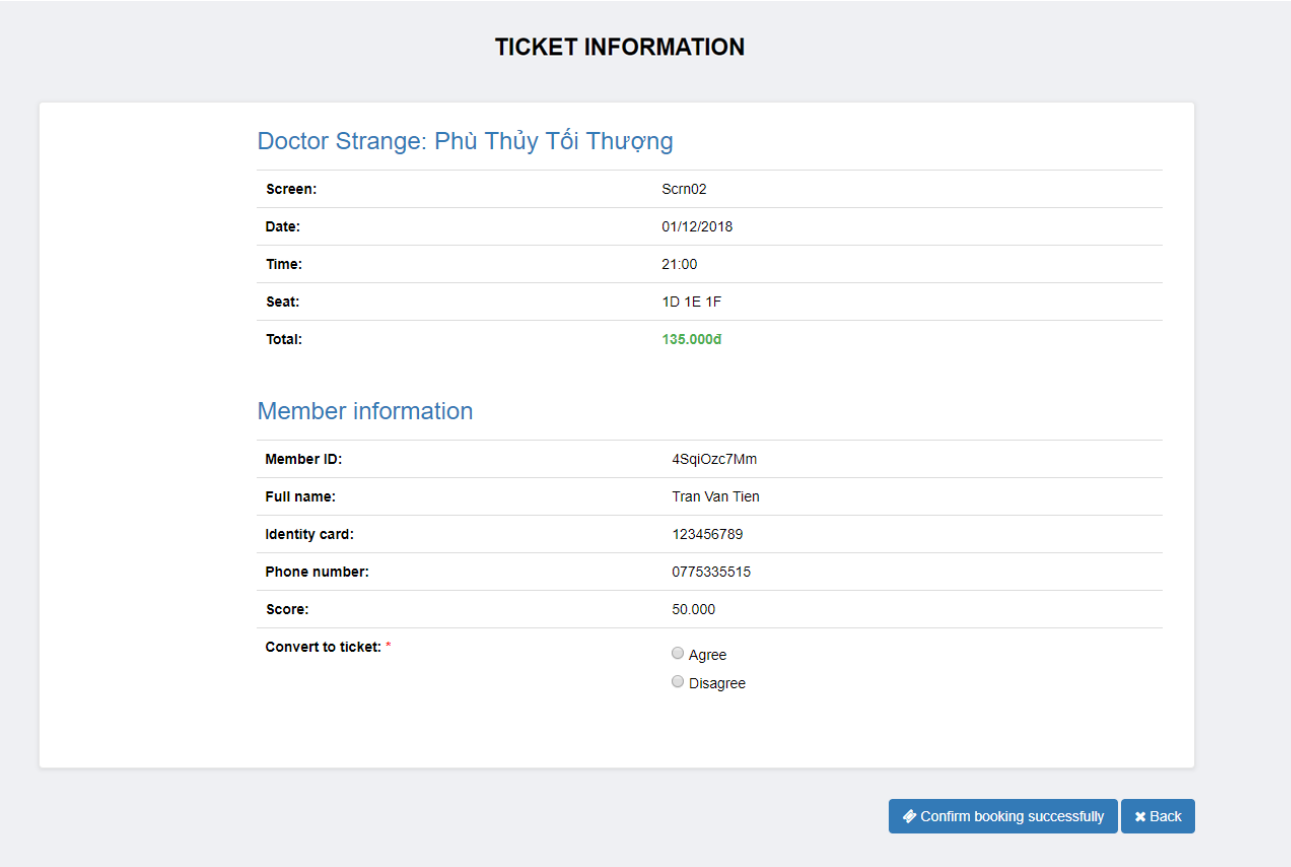


Screen	Ticket booking management – Booking list
Description	Display current movies and showtime
Screen Access	The user accesses Booking ticket

Screen Content			
Item	**Type**	**Data**	**Description**
Booking ID	Label	N/A	
Identity card	Label	N/A	
Phone number	Label	N/A	
Movie	Label	N/A	
Time	Label	N/A	
Successful booking	Button	N/A	

Screen Action			
Action name	**Description**	**Success**	**Failure**
Confirm booking	Click Confirm booking to view booking information	Display information of booking detail of member	

3.1.6.3 Ticket booking management – Confirm booking



Screen	Booking management – Confirm booking
Description	Display all booking information
Screen Access	The user accesses after selecting booking ticket at booking list

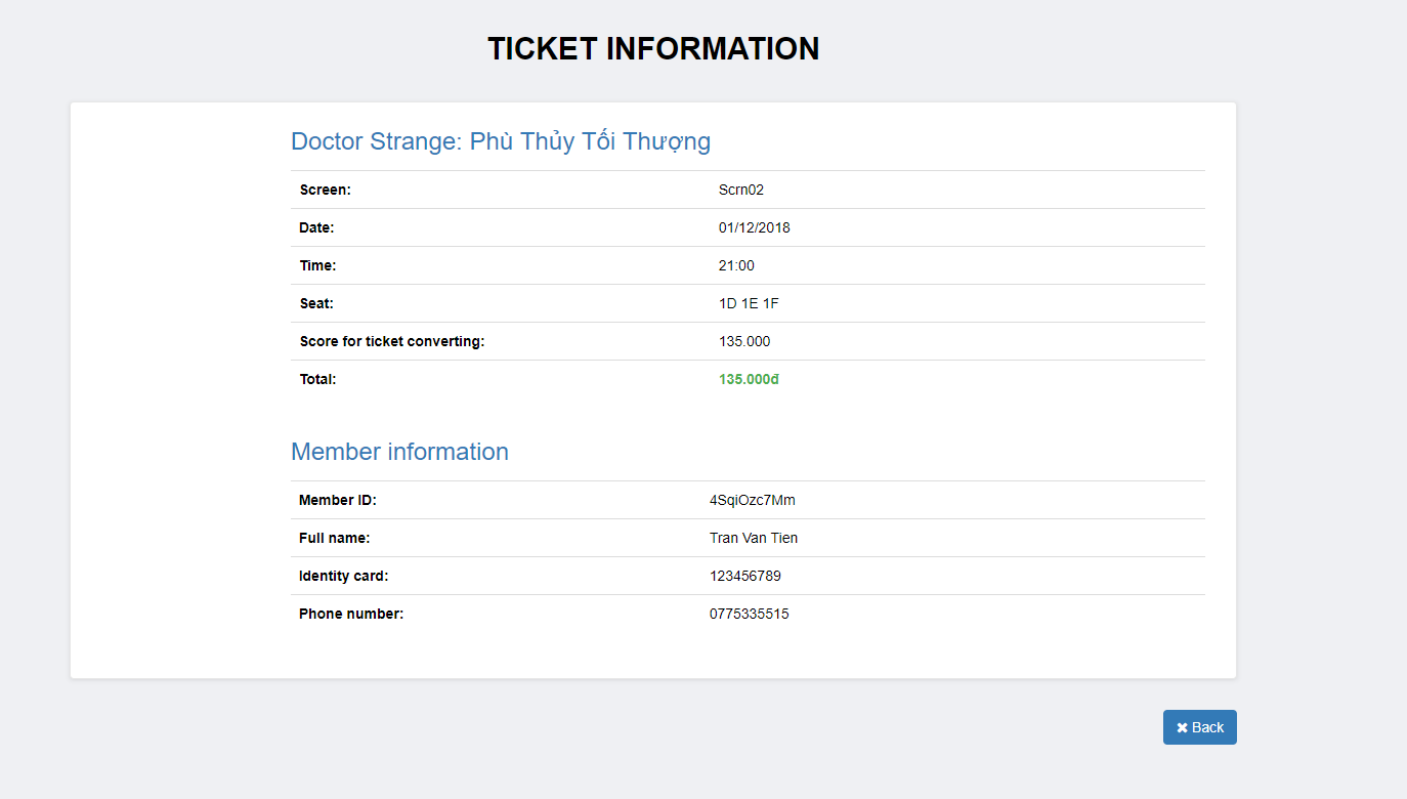
Screen Content

Item	**Type**	**Data**	**Description**
Movie name	Label	N/A	
Booking ID	Label	N/A	
Screen	Label	N/A	
Date	Label	N/A	
Time	Label	N/A	
Seat	Label	N/A	
Price	Label	N/A	
Total	Label	N/A	
Member ID	Label	N/A	
Full name	Label	N/A	
Member score	Label	N/A	
Identity card	Label	N/A	
Convert to ticket	Radio	N/A	
Phone number	Label	N/A	
Confirm booking	Button	N/A	

Screen Action

Action name	**Description**	**Success**	**Failure**
Member score	Click to convert member score into ticket	Display screen Information of converting score into ticket	Display message: "Not enough score to convert into ticket"
Confirm booking	Click to send request to confirm converting score into ticket	Confirm converting into ticket, display ticket booking management	

3.1.6.4 Ticket booking management – Information of converting into ticket



Screen	Booking management – Confirm booking successfully
Description	Display all booking information
Screen Access	The user accesses after selecting Booking ticket at booking list

Screen Content

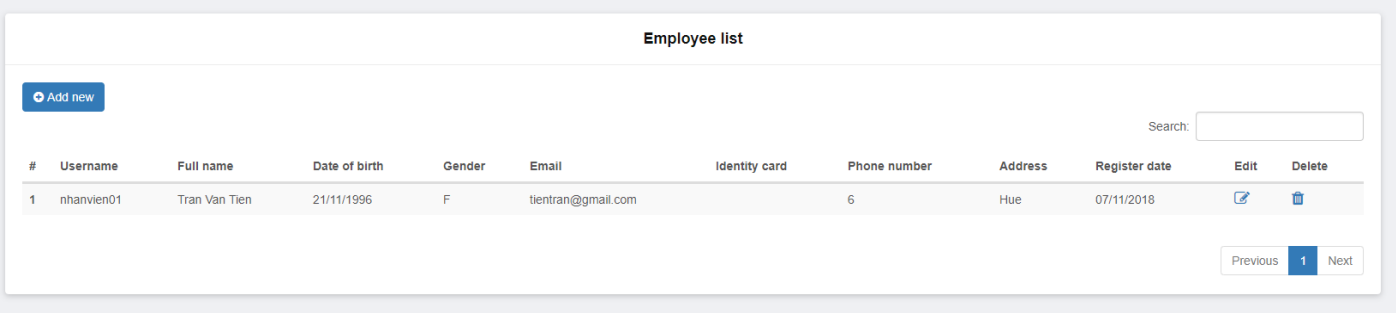
Item	Type	Data	Description
Movie name	Label	N/A	
Booking ID	Label	N/A	
Screen	Label	N/A	
Date	Label	N/A	
Time	Label	N/A	
Seat	Label	N/A	
Price	Label	N/A	
Convert to ticket	Label	N/A	
Score for ticket converting	Label	N/A	

Total	Label	N/A		
Member ID	Label	N/A		
Full name	Label	N/A		
Identity card	Label	N/A		
Phone number	Label	N/A		
Action name	**Description**		**Success**	**Failure**

3.1.7 Employee management

Use Case Name	Employee management
Use Case ID	
High Level Requirement Ref	Admin/Manager
Actor	The function allows to add, edit, delete, change password of employee.
Description	N/A
Trigger	Only admin has right to implement functions
Pre-condition	Admin must login the system
Post-processing	

3.1.7.1 Employee management – View employee list



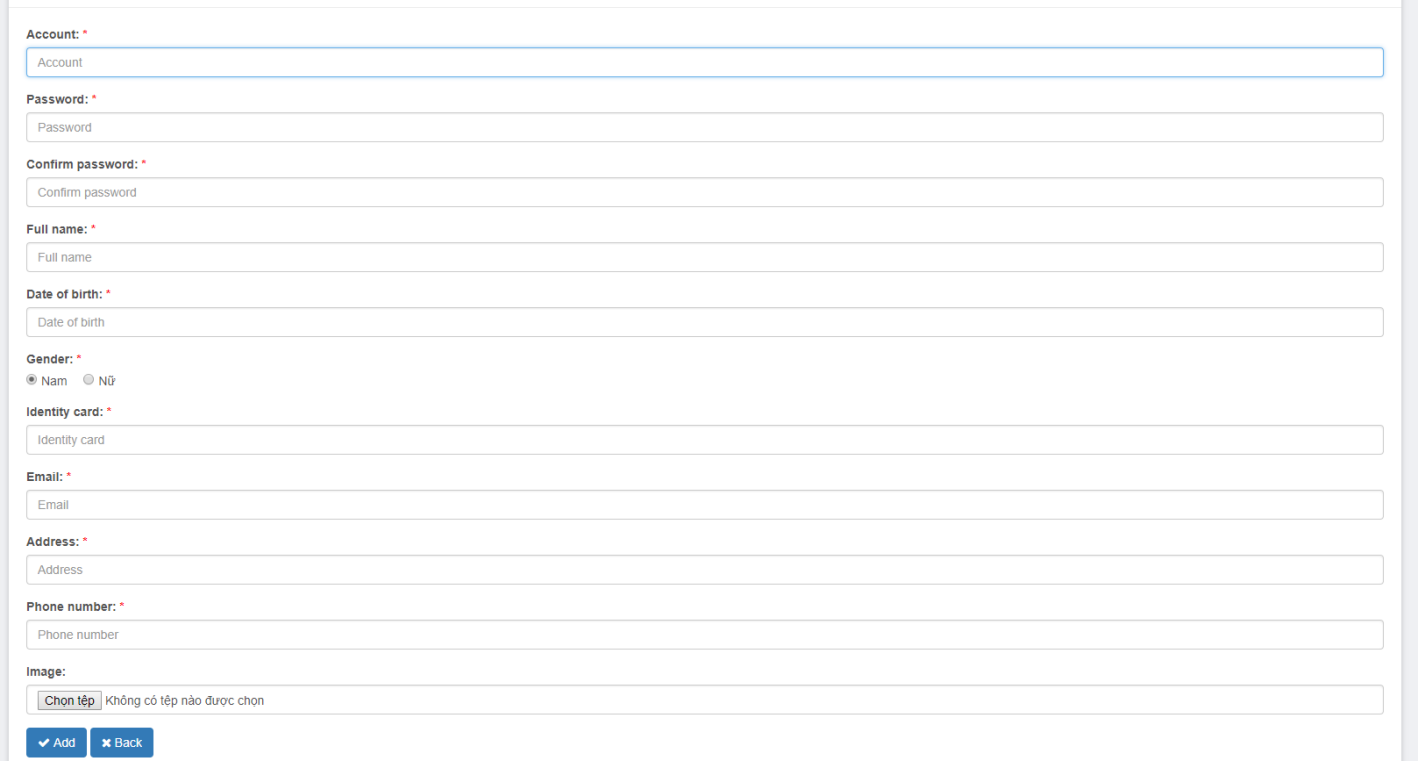
Screen	Screen to display employee list		
Description	Function of viewing information of movie theater employee Allows to search, add, edit, delete employees		
Screen Access			
Screen Content			
Item	**Type**	**Data**	**Description**

Employee ID	Label		
Employee name	Label		
Identity card	Label		
Email	Label		
Phone number	Label		
Address	Label		
Edit	Button	N/A	
Delete	Button	N/A	
Add	Button	N/A	
Search	TextBox - nvarchar (28)	N/A	
Search	Button	N/A	

Screen Action

Action name	Description	Success	Failure
Add	Click Add employee button to add an employee	Forward to Add employee function	N/A
Edit	Click Edit employee button to edit information of an employee	Forward to Edit employee function	N/A
Delete	Click Delete employee button to delete information of an employee	Forward to Delete employee function	N/A
Search	1.Input keyword into Input_Text Search 2.Click Search button	Updated Cinema room list is list of cinema room according to search keyword.	N/A

3.1.7.2 Employee management – Add employee



Screen	Screen to add employee
Description	Function to add employee
Screen Access	

Screen Content

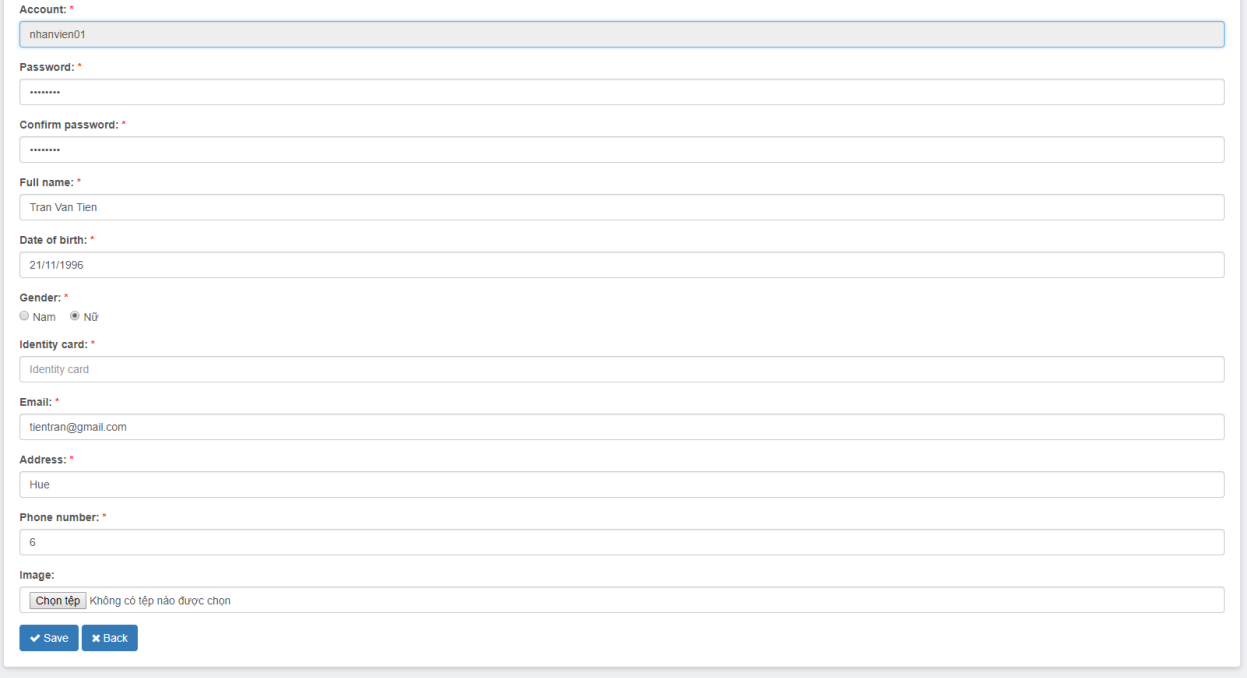
Item	Type	Data	Description
Image	Button	N/A	
Account	TextBox - nvarchar (28)	N/A	
Password	TextBox - nvarchar (28)	N/A	
Confirm password	TextBox - nvarchar (28)	N/A	
Date of birth	DataDatetime	N/A	
Sex	checkbox	N/A	
Employee name	TextBox - nvarchar (28)	N/A	
Identity card	TextBox - nvarchar (28)	N/A	

Email	TextBox - nvarchar (28)	N/A	
Phone number	TextBox - nvarchar (28)	N/A	
Address	TextBox - nvarchar (28)	N/A	
Add	Button	N/A	
Back	Button		

Screen Action

Action name	Description	Success	Failure
Add	Add employee	Add inputted employee information into database. Forward to Employee management screen – View employee list	Display the message: "The inputted account is already existed, please choose another account name"
Back	Back to previous screen	Back to previous screen	N/A

3.1.7.3 Employee management – Edit employee



Screen	Screen to edit employee
Description	Function to edit employee information
Screen Access	

Screen Content

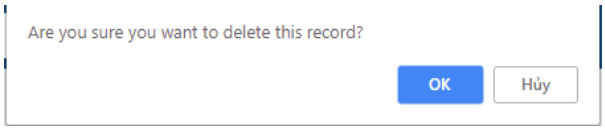
Item	Type	Data	Description
Image	Button	Display image of the selected employee to edit	
Account	TextBox - nvarchar (28)	Display account name of selected employee to edit	
Password	TextBox - nvarchar (28)	N/A	
Confirm password	TextBox - nvarchar (28)	N/A	
Full name	TextBox - nvarchar (28)	Display full name of selected employee to edit	

Date of birth	DataDatetime	Display date of birth of selected employee to edit	
Sex	chechbox	Display sex of selected employee to edit	
Email	TextBox - nvarchar (28)	Display email of selected employee to edit	
Identity card	TextBox - nvarchar (28)	Display identity card number of selected employee to edit	
Phone number	TextBox - nvarchar (28)	Display phone number of selected employee to edit	
Address	TextBox - nvarchar (28)	Display address of selected employee to edit.	
Edit	Button	N/A	Click to edit employee
Back	Button		Back to the previous screen

Screen Action

Action name	Description	Success	Failure
Edit	Edit information of an employee	Edit successfully information of an employee. Edit information of employee in database. Forward to screen of employee management – View employee list	N/A
Back	Back to the previous screen	Back to the previous screen	N/A

3.1.7.4 Employee management – Delete employee



Screen	Employee management – Delete movie	
Description	Delete movie information	
Screen Access	Admin clicks menu Movie management -> Delete	
Screen Content		
Item	**Type**	**Data**
Yes	Button	
No	Button	
Screen Actions		
Action Name	**Description**	**Success**
Confirm	Agree to delete movie	Movie is deleted from database and display screen of movie list
No	Close confirm screen	Display screen of movie list

Screen	Screen to delete employee		
Description	Function to delete employee information		
Screen Access			
Screen Content			
Item	**Type**	**Data**	**Description**
Image	FormFile	Display image of selected employee to edit	
Account	TextBox - nvarchar (28)	Display account of selected employee to edit	
Password	TextBox - nvarchar (28)	N/A	
Confirm password	TextBox - nvarchar (28)	N/A	

Full name	TextBox - nvarchar (28)	Display full name of selected employee to edit	
Date of birth	DataDatetime	Display Date of birth of selected employee to edit	
Sex	chechbox	Display sex of selected employee to edit	
Email	TextBox - nvarchar (28)	Display email of selected employee to edit.	
Identity card	TextBox - nvarchar (28)	Display identity card number of selected employee to edit	
Phone number	TextBox - nvarchar (28)	Display phone number of selected employee to edit	
Address	TextBox - nvarchar (28)	Display address of selected employee to edit.	
Delete	Button	N/A	Click to Delete employee
Back	Button		Back to the previous screen

Screen Action

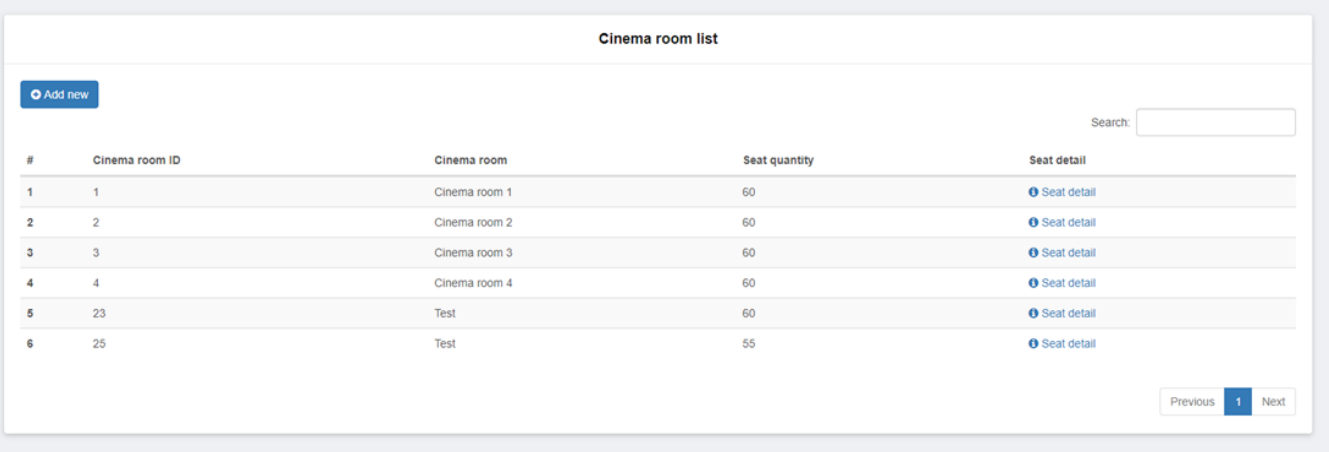
Action name	Description	Success	Failure
Delete	Delete an employee	Successfully deleting an employee is changing status of the employee into Disable(2) in database. Forward to screen: Employee management – View employee list.	N/A

Back	Back to the previous screen	Back to the previous screen	N/A

3.1.8 Cinema room management

Use Case Name	Cinema room management
Use Case ID	
High Level Requirement Ref	Admin, user
Actor	Allows to add cinema room
Description	NA
Trigger	Only admin has right to implement functions
Pre-condition	Admin must login the system

3.1.8.1 Cinema room management – Display list of cinema rooms



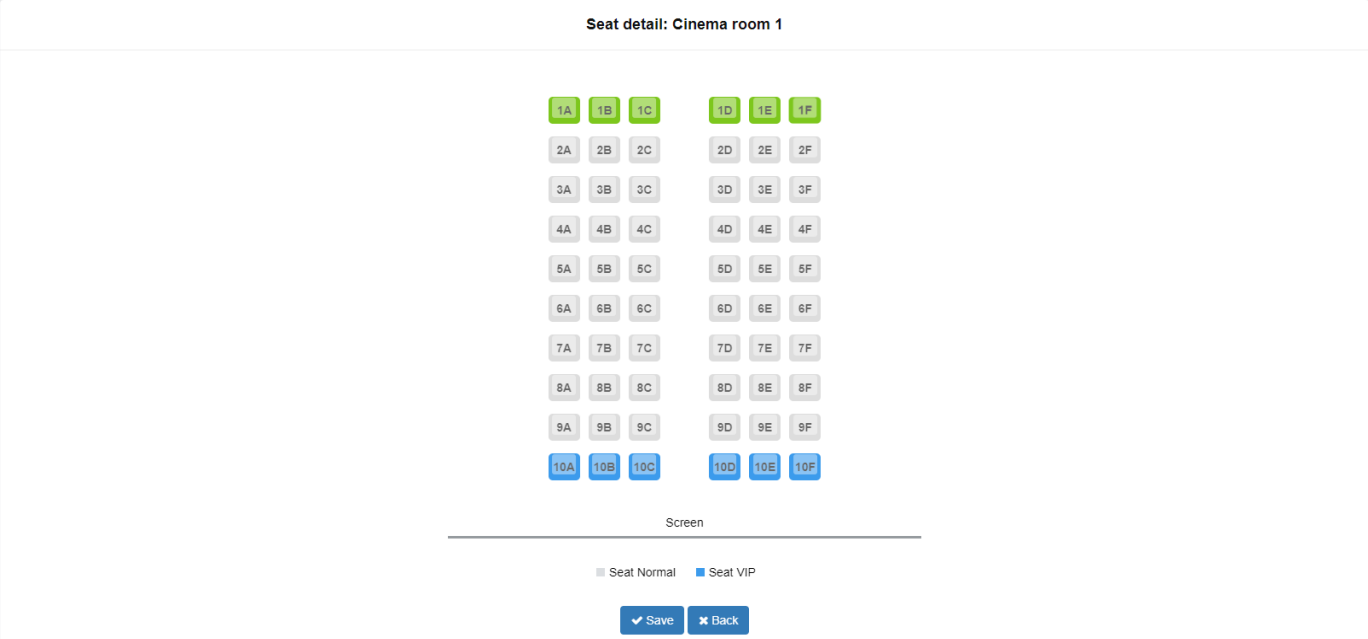
Screen	Screen to display cinema room list		
Description	Function to view list of cinema room information and search for keyword Allows to add, edit cinema room seat types		
Screen Access			
Screen Content			
Item	**Type**	**Data**	**Description**
Cinema room ID	Label		

Cinema room	Label		
Seat quantity	Label		
Seat detail	Button	N/A	
Add cinema room	Button	N/A	
Search	TextBox - nvarchar (28)	N/A	
Search	Button	N/A	

Screen Actions

Action name	Description	Success	Failure
Seat detail	Click Seat detail button of each cinema room to view detail, edit seat type in that cinema room.	Forward to Cinema room detail screen and implement functions of cinema room details.	N/A
Search	1.Input keyword into Input_Text Search 2.Click Search button	Updated Cinema room list is list of cinema room according to search keyword.	N/A
Back	Back to previous screen	Back to previous screen	N/A

3.1.8.2 Cinema room management – Cinema room detail



Screen	Detail screen of cinema room
Description	Function to view information and edit seat type in selected cinema room
Screen Access	

Screen Content

Item	Type	Data	Description
Cinema room	Label		
Seat	Checkbox		
Save	Button	N/A	
Back	Button	N/A	

Screen Action

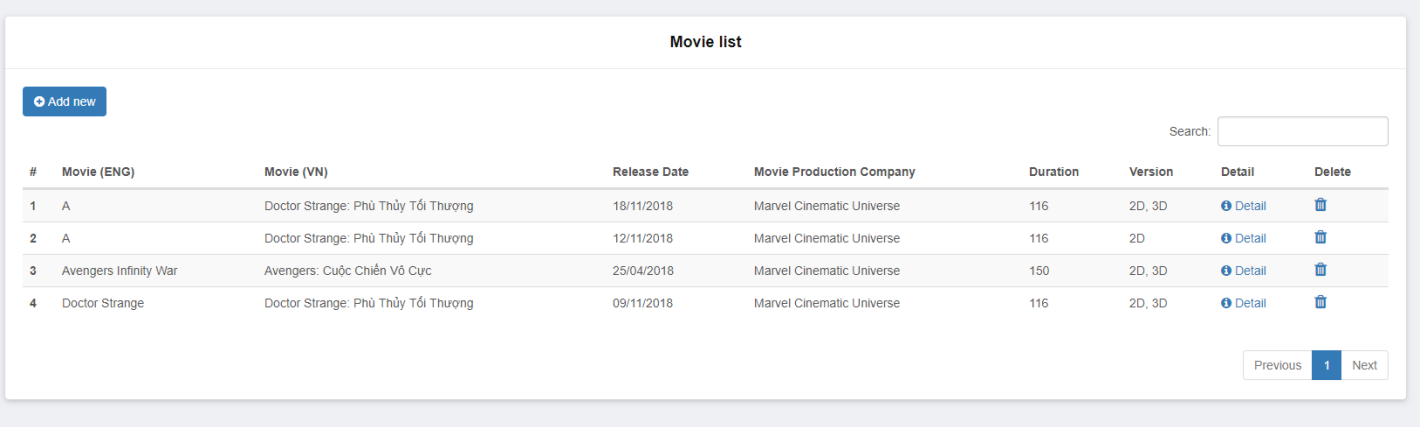
Action name	Description	Success	Failure
Select seat	Select seat to change status of the seat from this status into another status (Normal seat – VIP seat)	Selected seat color is changed into green color	N/a
Save	Click to save change in database	Edit successfully in database. Change status of selected seats. Return screen	. Re-display the screen of this function.

		of cinema room management	

3.1.9 Movie management

Use Case Name	Movie management
Use Case ID	
High Level Requirement Ref	
Actor	Admin/Manager
Description	Allows admin to view, add, edit movie information
Trigger	The user must log in the system as admin right
Pre-condition	

3.1.9.1 Movie management – View movie list



Screen	View movie list
Description	Display movie list
Screen Access	The user clicks **Movie management**
Screen Content	

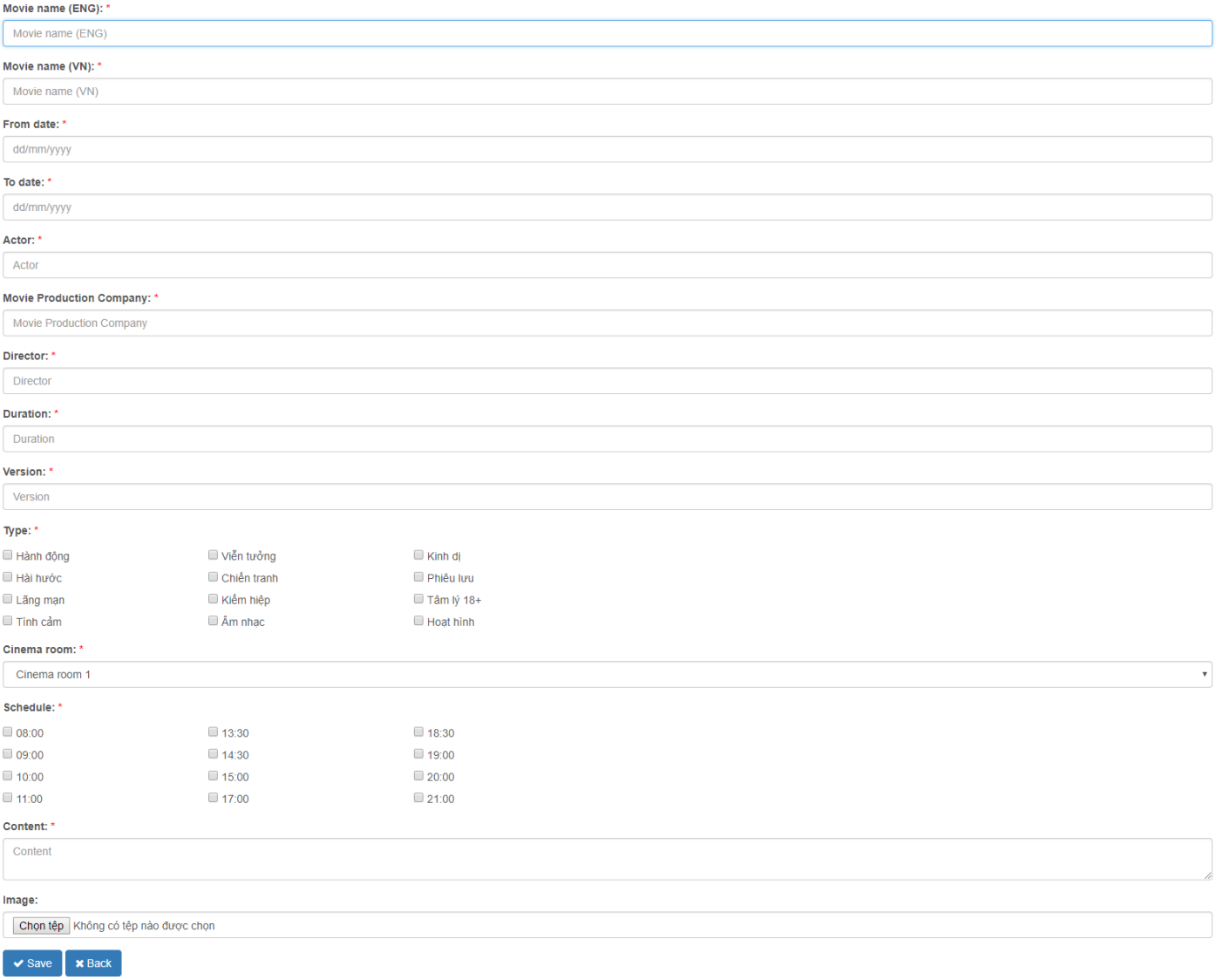
Item	Type	Data	Description
Movie	Lable – String	N/A	
Release date	Lable – String	N/A	

Movie production company	Lable – String	N/A	
Movie running time	Lable – Number	N/A	
Version	Lable – String	N/A	
Edit	Button	N/A	
Add movie	Button	N/A	

Screen Action

Action name	Description	Success	Failure
Add movie	Forward to page of adding movie	Display page of adding movie	
Edit	Forward to page of editing movie	Display page of editing movie	

3.1.9.2 Movie management – Add movie



Screen	Add movie
Description	Add 1 movie into database
Screen Access	The user clicks **Movie management -> Add movie**
Screen Content	

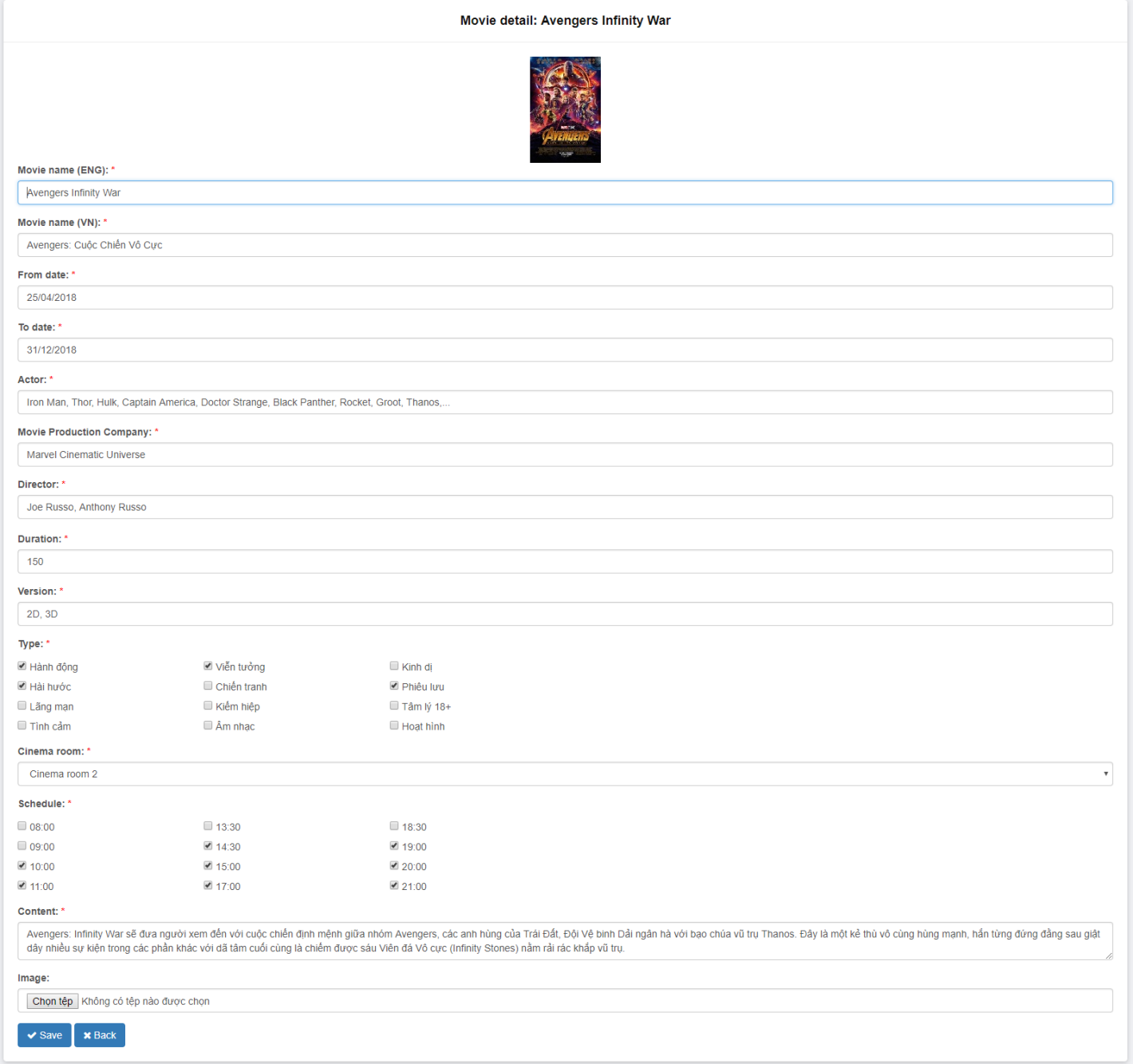
Item	Type	Data	Description
Movie name	TextBox – String	N/A	
From date	Date	N/A	
To date	Date	N/A	

Actor	TextBox – String	N/A	
Movie production company	TextBox – String	N/A	
Director	TextBox – String	N/A	
Running time	TextBox – Number	N/A	
Version	RadioBox	N/A	
Trailer	TextBox – Number	N/A	
Type	CheckBox	N/A	
Cinema room	ComboBox	N/A	
Showtime	TextBox – String	N/A	
Content	TextBox – String	N/A	
Add cinema time	Button	N/A	
Choose file	Button	N/A	
Submit	Button	N/A	

Screen Action

Action name	Description	Success	Failure
Add movie	Add movie into database, after admin inputs all information, then click Add movie to add movie.	Back to page of Movie management	Display the error message

3.1.9.3 Movie management – Edit movie information



Screen	Update movie information
Description	Update information of the movie
Screen Access	The user clicks **Movie management -> Edit**
Screen Content	

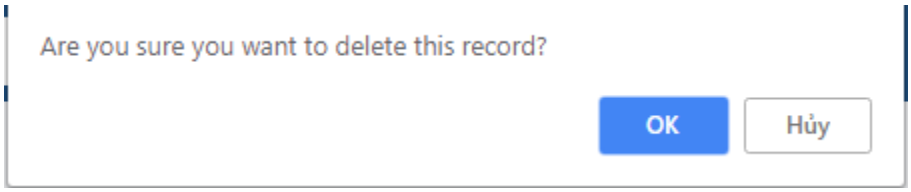
Item	Type	Data	Description

Movie name	TextBox – String	N/A	
From date	Date	N/A	
To date	Date	N/A	
Actor	TextBox – String	N/A	
Movie production company	TextBox – String	N/A	
Director	TextBox – String	N/A	
Running time	TextBox – Number	N/A	
Version	RadioBox	N/A	
Trailer	TextBox - String	N/A	
Type	CheckBox	N/A	
Ciname room	ComboBox	N/A	
Showtime	TextBox – String	N/A	
Content	TextBox – String	N/A	
Add movie time	Button	N/A	
Choose file	Button	N/A	
Submit	Button	N/A	
Back	Button	N/A	

Screen Action

Action name	Description	Success	Failure
Edit	Edit information of movie. After admin edits information, then click Submit to update all information of the movie.	Back to movie management	Display error messages

3.1.9.4 Movie management – Delete movie

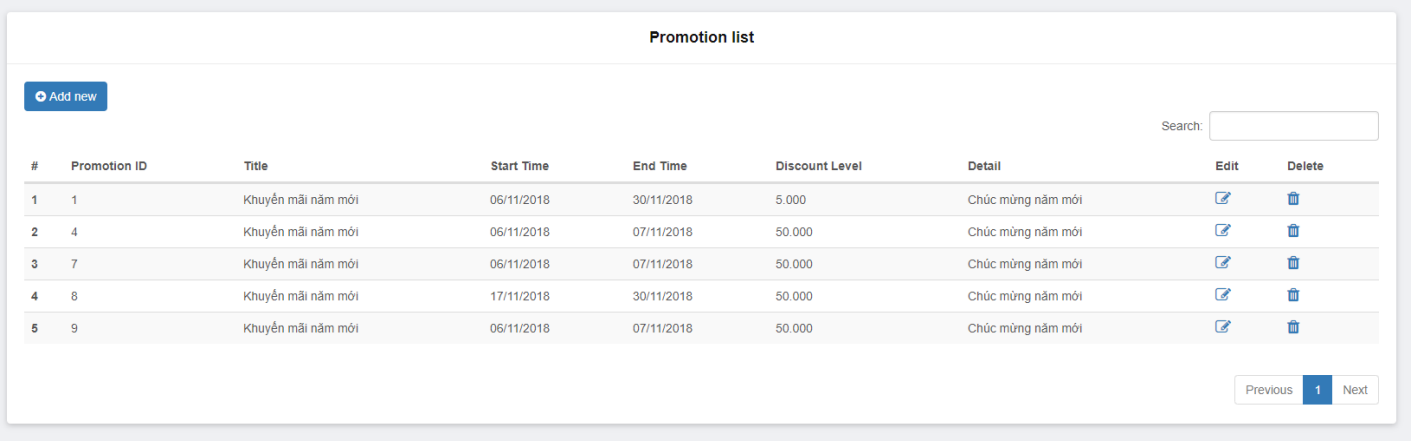


Screen	Movie management – Delete movie	
Description	Delete information of the movie	
Screen Access	Admin clicks menu **Movie management -> Delete**	
Screen Content		
Item	**Type**	**Data**
Yes	Button	
No	Button	
Screen Actions		
Action Name	**Description**	**Success**
Confirm	Agree to delete movies	The movie is deleted from database and display Movie list screen
No	Close confirm screen	Display Movie list screen

3.1.10 Promotion management

Use Case Name	Promotion management
Use Case ID	
High Level Requirement Ref	
Actor	Admin
Description	Allows users to manage promotion programs of the movie theater
Trigger	
Pre-condition	The user must log in the system
Post-processing	

3.1.10.1 Promotion management – View promotion list



Screen	View promotion list of system
Description	Allows to search, add, edit, delete promotions
Screen Access	Admin clicks menu **Promotion management**

Screen Content

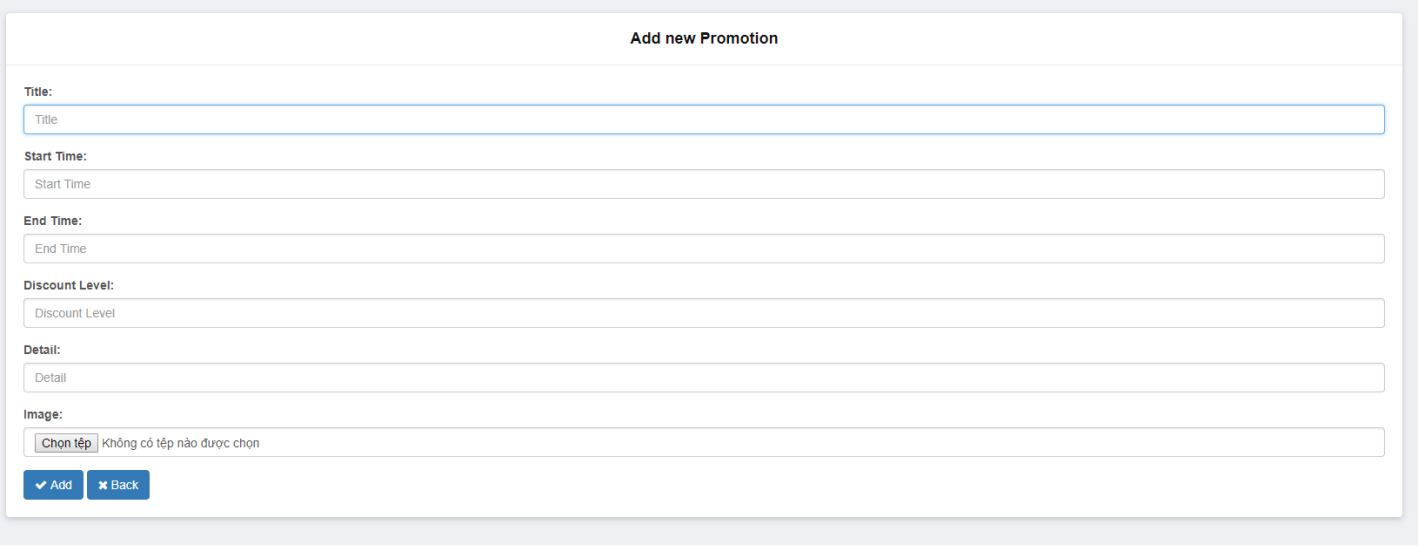
Item	**Type**	**Data**	**Description**
Title	Lable – String	N/A	
Start time	Lable – String	N/A	
End time	Lable – String	N/A	
Promotion	Lable – String	N/A	
Detail	Lable – String	N/A	
Edit	Button	N/A	
Add	Button	N/A	
Delete	Button	N/A	
Search	TextBox - nvarchar (28)	N/A	
Search	Button	N/A	

Screen Action

Action name	**Description**	**Success**	**Failure**

Add	Click Add promotion button to add a promotion	Forward to Add promotion function	N/A
Edit	Click Edit promotion button to edit information of a promotion	Forward to Edit promotion function	N/A
Delete	Click Delete promotion button to delete information of a promotion	Forward to Delete promotion function	N/A
Search	1.Input keyword into Input_Text Search 2.Click Search button	Updated promotion list is list of promotion according to search keyword.	N/A

3.1.10.2 Promotion management – Add promotion



Screen	Add promotion
Description	Add promotion
Screen Access	Admin clicks menu **Promotion management -> Add promotion**
Screen Content	

Item	Type	Data	Description
Image	Button	N/A	
Title	TextBox – String	N/A	
Start time	ComboBox	N/A	
End time	ComboBox	N/A	

Promotion	TextBox – Number	N/A	
Detail	TextBox – String	N/A	
Add	Button	N/A	
Back	Button		

Screen action

Action name	Description	Success	Failure
Add	After admin inputs and selects all information, then click Add, the system will add a promotion into database	Add inputted promotion information into database. Back to Promotion management screen – View promotion list	Display the message: "Unsuccessfully add". Display Add promotion screen.
Back	Back to previous screen	Back to previous screen	N/A

3.1.10.3 Promotion management – Edit promotion

Title:
Khuyến mãi năm mới
Start Time:
06/11/2018
End Time:
30/11/2018
Discount Level:
5.000
Detail:
Chúc mừng năm mới
Image:
Chọn tệp Không có tệp nào được chọn
Save Back

Screen	Edit promotion
Description	Edit information of promotion
Screen Access	Admin clicks menu **Promotion management -> Edit**
Screen Content	

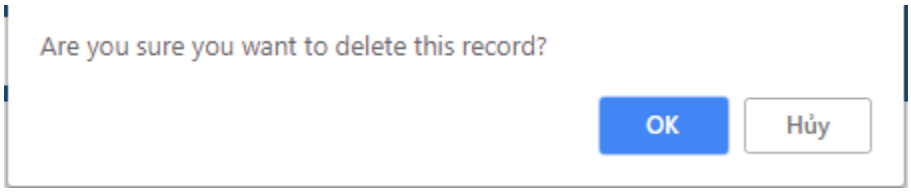
Item	**Type**	**Data**	**Description**
Image	Button	Display image of the selected promotion to edit	
Title	TextBox – String	Display title of the selected promotion to edit	
Start time	ComboBox	Display start time of the selected promotion to edit	
End time	ComboBox	Display end time of the selected promotion to edit	
Promotion	TextBox – Number	Display sales off detail of the selected promotion to edit	

Detail	TextBox – String	Display detail of the selected promotion to edit	
Edit	Button	N/A	

Screen Action

Action name	Description	Success	Failure
Edit	Edit the information that needs updating of the promotion	Display the message "Successfully add". Edit information of promotion in database. Forward to screen of Promotion management – View promotion list	Display the message: "Unsuccessfully add". Display Edit promotion screen.
Back	Back to previous screen	Back to previous screen	N/A

3.1.10.4 Promotion management – Delete promotion



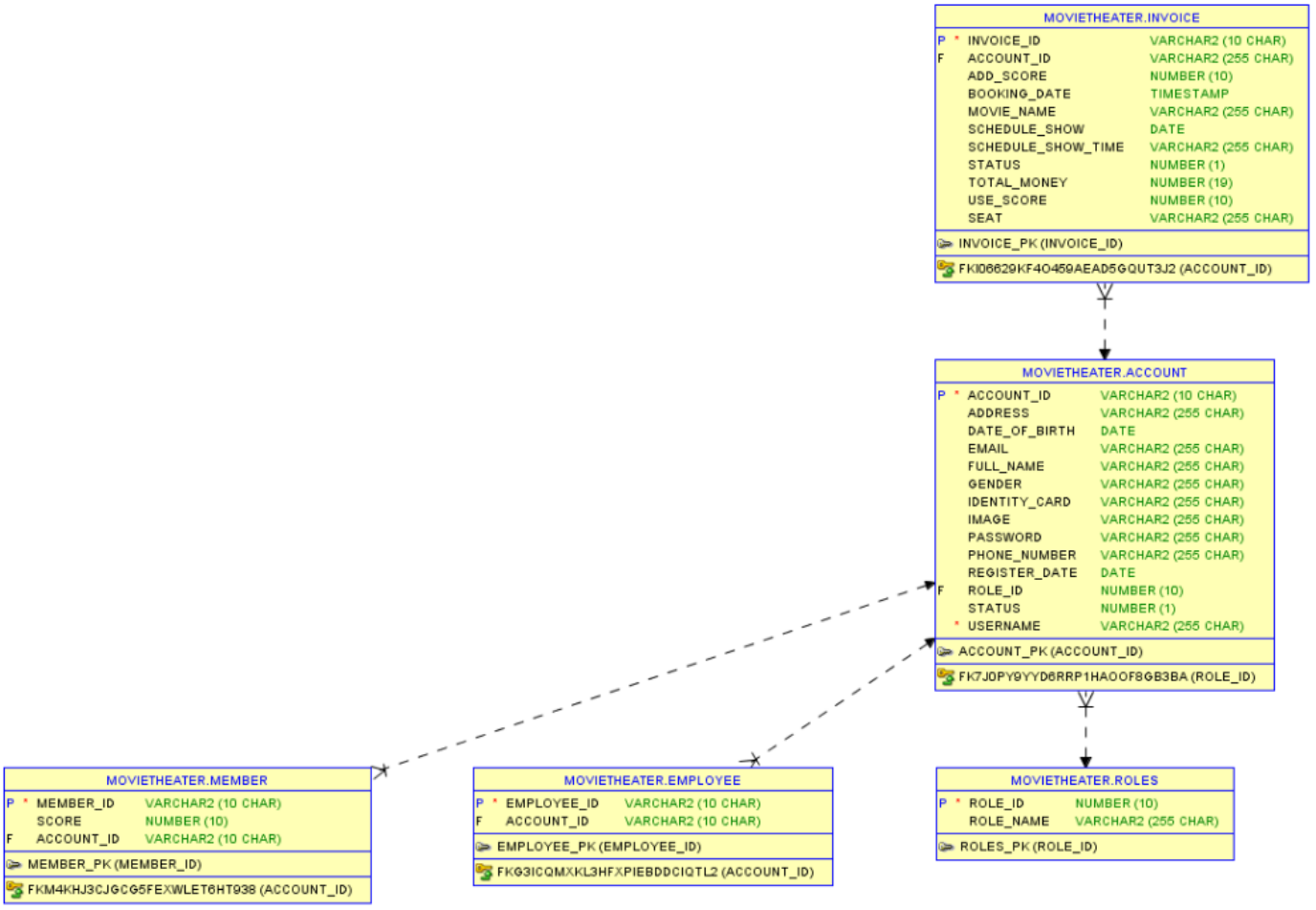
Screen	Delete promotion		
Description	Delete information of the promotion		
Screen Access	Admin clicks menu **Promotion management -> Delete**		
Screen Content			
Item	**Type**	**Data**	
Yes	Button		
No	Button		
Screen Actions			
Action Name	**Description**	**Success**	

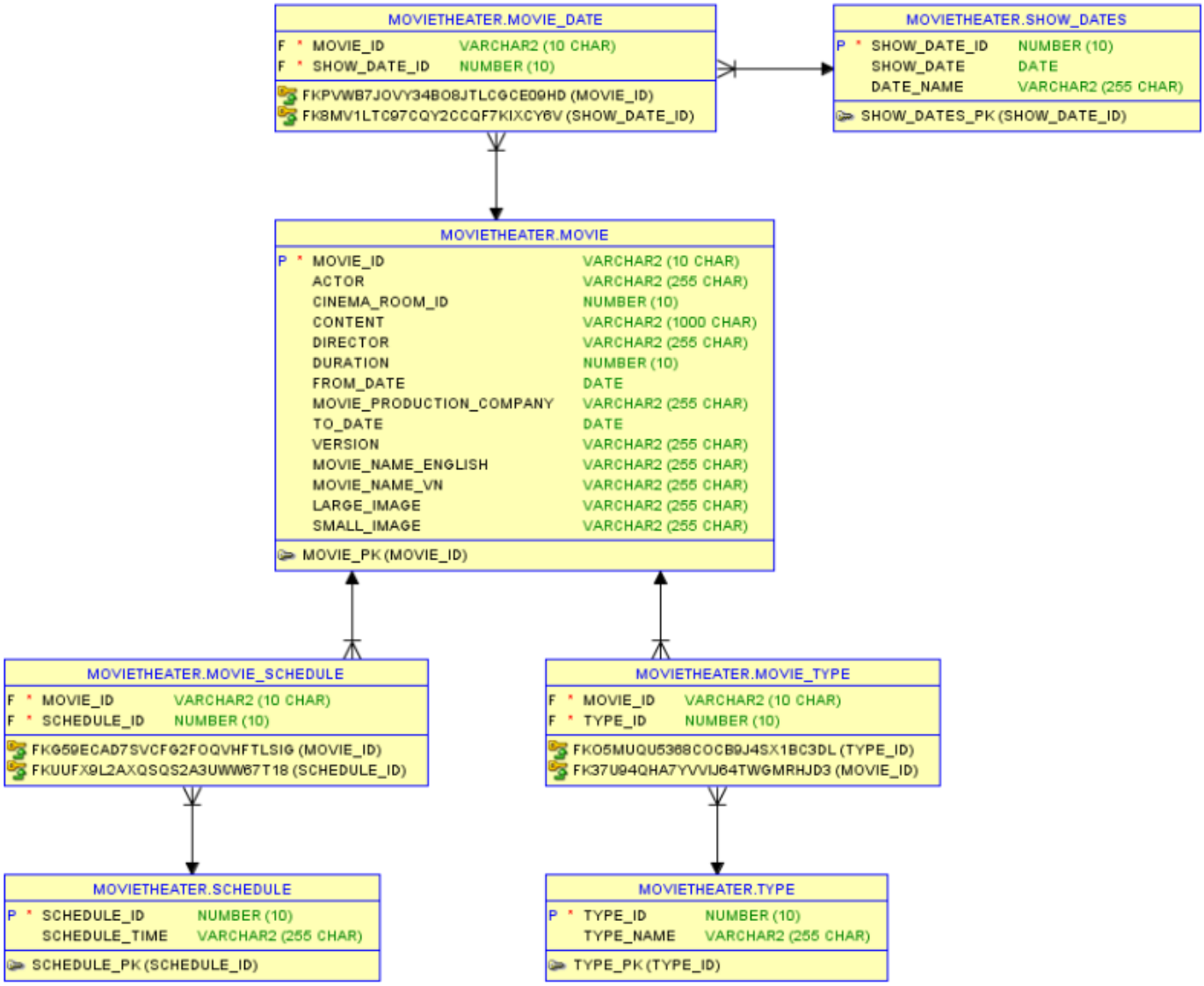
Confirm	Agree to delete promotion	Promotion is deleted from database and display screen of promotion list
No	Close confirm screen	Display screen promotion list

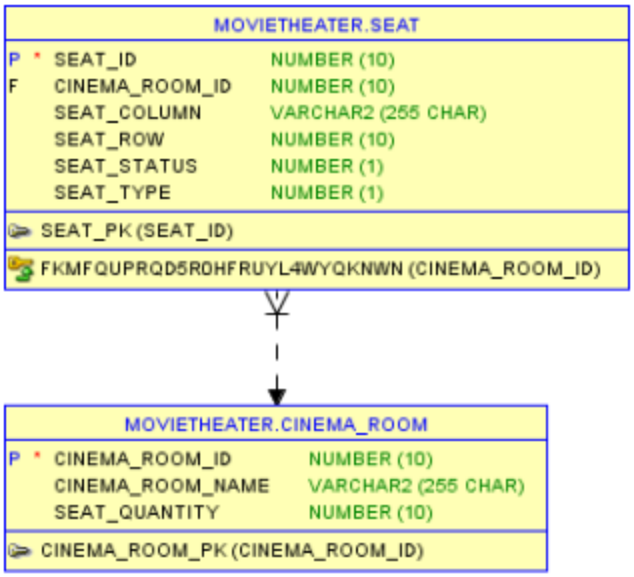
3.2. Detailed Non-Functional Requirements

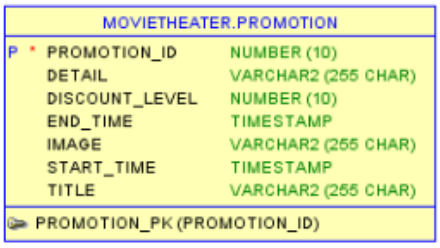
3.2.1 Logical Structure of the Data

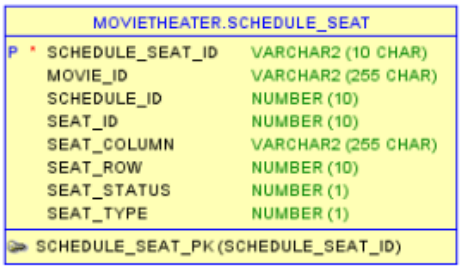
The logical structure of the data to be stored on the system is given below

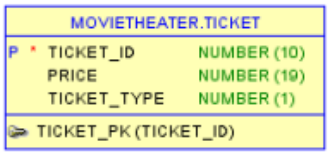



MOVIETHEATER.MOVIE_DATE
F * MOVIE_ID VARCHAR2 (10 CHAR)
F * SHOW_DATE_ID NUMBER (10)
FKPVWB7JOVY34BO8JTLCGCE09HD (MOVIE_ID)
FK8MV1LTC97CQY2CCQF7KIXCY6V (SHOW_DATE_ID)
MOVIETHEATER.SHOW_DATES
P * SHOW_DATE_ID NUMBER (10)
SHOW_DATE DATE
DATE_NAME VARCHAR2 (255 CHAR)
SHOW_DATES_PK (SHOW_DATE_ID)
MOVIETHEATER.MOVIE
P * MOVIE_ID VARCHAR2 (10 CHAR)
ACTOR VARCHAR2 (255 CHAR)
CINEMA_ROOM_ID NUMBER (10)
CONTENT VARCHAR2 (1000 CHAR)
DIRECTOR VARCHAR2 (255 CHAR)
DURATION NUMBER (10)
FROM_DATE DATE
MOVIE_PRODUCTION_COMPANY VARCHAR2 (255 CHAR)
TO_DATE DATE
VERSION VARCHAR2 (255 CHAR)
MOVIE_NAME_ENGLISH VARCHAR2 (255 CHAR)
MOVIE_NAME_VN VARCHAR2 (255 CHAR)
LARGE_IMAGE VARCHAR2 (255 CHAR)
SMALL_IMAGE VARCHAR2 (255 CHAR)
MOVIE_PK (MOVIE_ID)
MOVIETHEATER.MOVIE_SCHEDULE
F * MOVIE_ID VARCHAR2 (10 CHAR)
F * SCHEDULE_ID NUMBER (10)
FKG59ECAD7SVCFG2FOQVHFTLSIG (MOVIE_ID)
FKUUFX9L2AXQSQS2A3UWW67T18 (SCHEDULE_ID)
MOVIETHEATER.MOVIE_TYPE
F * MOVIE_ID VARCHAR2 (10 CHAR)
F * TYPE_ID NUMBER (10)
FKO5MUQU5368COCB9J4SX1BC3DL (TYPE_ID)
FK37U94QHA7YVVIJ64TWGMRHJD3 (MOVIE_ID)
MOVIETHEATER.SCHEDULE
P * SCHEDULE_ID NUMBER (10)
SCHEDULE_TIME VARCHAR2 (255 CHAR)
SCHEDULE_PK (SCHEDULE_ID)
MOVIETHEATER.TYPE
P * TYPE_ID NUMBER (10)
TYPE_NAME VARCHAR2 (255 CHAR)
TYPE_PK (TYPE_ID)









3.2.2 Security

TBD

3.2.3 Performance

TBD