



Movie Theater

Software Requirements Specification

Version 1.2

Hanoi, Jan 2020

Approval Page

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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

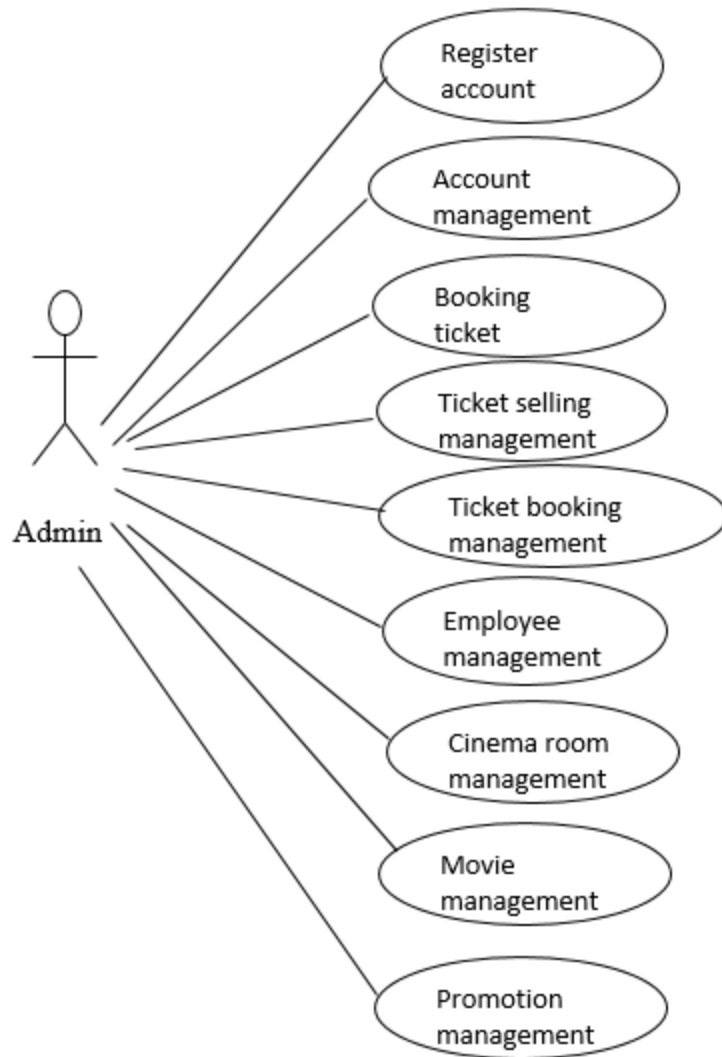
2.1. Actors

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

The image shows a login interface. At the top, the word "LOGIN" is centered in bold. Below it are two input fields: the first is labeled "Username" and the second is for a password, indicated by a series of dots. A blue button with a right-pointing arrow and the text "Login" is positioned below the password field. At the bottom of the form, there is a link that says "Don't have an account yet? [Register now!](#)".

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

REGISTER ACCOUNT

☒ Nam ☐ Nữ


Register

Have an account already? [Login](#)

| | | | |
|------------------|----------------------------------|---|------------------------------|
| 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

Account Information



Account: *
tientv5

Password: *

Confirm password: *

Full name: *
Tran Van Tien

Date of birth: *
21/11/1996

Gender: *
☒ Nam ☐ Nữ

Identity card: *
123456789

Email: *
tientran@gmail.com

Address: *
Da Nang

Phone number: *
0775335515

Image:
Chọn tệp | Không có tệp nào được chọn

| | | | |
|---------------------|---|---------|---------|
| 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

History of score Adding / Using

From date: 12/11/2018
To date: 30/12/2018

☒ History of score adding
☐ History of score using

[View score](#)

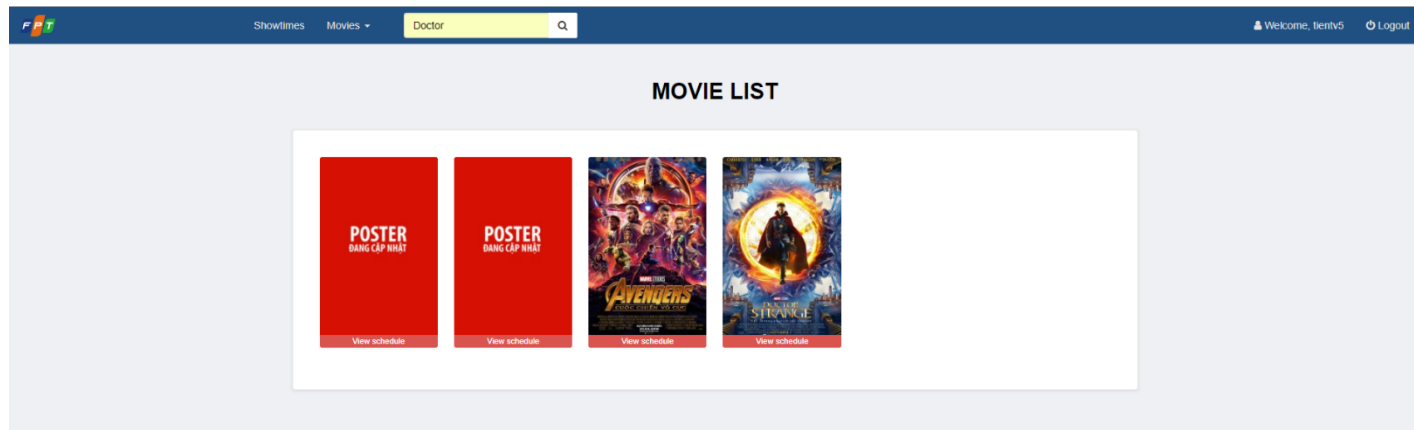
| # | DATE CREATED | MOVIE NAME | ADDED SCORE | USED SCORE |
|---|------------------|-------------------------------------|-------------|------------|
| 1 | 18/11/2018 13:10 | Doctor Strange: Phù Thủy Tối Thượng | 13.500 | |

Previous 1 Next

| | | | |
|-------------------------|--|---|---|
| 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

SHOWTIMES

01
Fri


02
Sun

03
Mon

04
Tue

05
Wed

06
Thu



Doctor Strange: Phù Thủy Tối Thượng
Doctor Strange

08:00

09:00

14:30

15:00


17:00

18:30

19:00

20:00

21:00



Avengers: Cuộc Chiến Vô Cực
Avengers Infinity War

10:00

11:00

14:30

15:00

17:00

19:00

20:00

21:00

| | | | |
|----------------|--|--|--|
| 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" |

| | | | |
|--|--|--|--|
| | | | <ul style="list-style-type: none"> - 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

Select seat quantity:

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| 1A | 1C | 1B | 1D | 1E | 1F |
| 2A | 2B | 2C | 2D | 2E | 2F |
| 3A | 3B | 3C | 3D | 3E | 3F |
| 4A | 4B | 4C | 4D | 4E | 4F |
| 5A | 5B | 5C | 5D | 5E | 5F |
| 6A | 6B | 6C | 6D | 6E | 6F |
| 7A | 7B | 7C | 7D | 7E | 7F |
| 8A | 8B | 8C | 8D | 8E | 8F |
| 9A | 9B | 9C | 9D | 9E | 9F |
| 10A | 10B | 10C | 10D | 10E | 10F |

Screen

■ Seat is selecting
 ■ Seat is sold
 ■ Seat can choose
 ■ Seat VIP


Continue

| | | | | |
|----------------------|---|------|--|---|
| 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

CONFIRM BOOKING TICKET



Doctor Strange: Phù Thủy Tối Thượng

| | |
|---------|-------------------------------------|
| Screen: | Scrn02 |
| Date: | 01/12/2018 |
| Time: | 21:00 |
| Seat: | 1D 1E 1F |
| Price: | 1D: 45000 1E: 45000 1F: 45000 |
| Total: | 135.000đ |

Check your booking ticket information

| | |
|----------------|--------------------|
| Full name: | Tran Van Tien |
| Email: | tientran@gmail.com |
| Identity card: | 123456789 |
| Phone number: | 0775335515 |

[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

TICKET INFORMATION



Doctor Strange: Phù Thủy Tối Thượng

| | |
|------------------------------|-------------------------------------|
| Screen: | Scrn02 |
| Date: | 01/12/2018 |
| Time: | 21:00 |
| Seat: | 1D 1E 1F |
| Price: | 1D: 45000 1E: 45000 1F: 45000 |
| Score for ticket converting: | 0 |
| Total: | 135.000đ |

Booking ticket information

| | |
|----------------|--------------------|
| Full name: | Tran Van Tien |
| Email: | tientran@gmail.com |
| Identity card: | 123456789 |
| Phone number: | 0775335515 |

Please pick up the ticket 30 minutes before the show. After that time ticket will automatically cancel!

| | | | |
|----------------|--|---------|-------------|
| 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

SHOWTIMES

01
Fri


02
Sun

03
Mon

04
Tue


05
Wed

06
Thu



Doctor Strange: Phù Thủy Tối Thượng
Doctor Strange

08:0009:0014:3015:0017:0018:3019:0020:0021:00



Avengers: Cuộc Chiến Vô Cực
Avengers Infinity War

10:0011:0014:3015:0017:0019:0020:0021:00

| | | | | |
|----------------|---|------|--|---|
| 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

Select seat quantity:

1 ▾

1A

1C

1B

1D

1E

1F

2A

2B

2C

2D

2E

2F

3A

3B

3C

3D

3E

3F

4A

4B

4C

4D

4E

4F

5A

5B

5C

5D

5E

5F

6A

6B

6C

6D

6E

6F

7A

7B

7C

7D

7E

7F

8A

8B

8C

8D

8E

8F

9A

9B

9C

9D

9E

9F

10A

10B

10C

10D

10E

10F

Screen

Seat is selecting

Seat is sold

Seat can choose

Seat VIP

Continue

| | | | |
|----------------------|--|------|---|
| 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 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 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


CONFIRM BOOKING TICKET



Doctor Strange: Phù Thủy Tối Thượng

| | |
|---------|-------------------------------------|
| Screen: | Scrn02 |
| Date: | 01/12/2018 |
| Time: | 21:00 |
| Seat: | 2D 2E 2F |
| Price: | 2D: 45000 2E: 45000 2F: 45000 |
| Total: | 135.000đ |

Member



Doctor Strange: Phù Thủy Tối Thượng

| | |
|---------|-------------------------------------|
| Screen: | Scrn02 |
| Date: | 01/12/2018 |
| Time: | 21:00 |
| Seat: | 2D 2E 2F |
| Price: | 2D: 45000 2E: 45000 2F: 45000 |
| Total: | 135.000đ |

Member

| | |
|----------------------|---|
| Member ID: | 4SqIOzc7Mm |
| Identity Card: | 123456789 |
| Full name: | Tran Van Tien |
| Full name: | 0775335515 |
| Score: | 36.500 |
| Convert to ticket: * | <input type="radio"/> Agree <input type="radio"/> Disagree |

| | | | |
|----------------|--|------|-------------|
| 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 convert into | When number of converted tickets matches with enough member score | |

3.1.5.4 Ticket selling management – Ticket information

TICKET INFORMATION



Doctor Strange: Phù Thủy Tối Thượng

| | |
|------------------------------|-------------------------------------|
| Screen: | Scrn02 |
| Date: | 01/12/2018 |
| Time: | 21:00 |
| Seat: | 2D 2E 2F |
| Price: | 2D: 45000 2E: 45000 2F: 45000 |
| Score for ticket converting: | 0 |
| Total: | 135.000đ |

Member

| | |
|----------------|---------------|
| Member ID: | 4SqjOzc7Mm |
| Identity Card: | 123456789 |
| Full name: | Tran Van Tien |
| Phone number: | 0775335515 |

| | | | |
|-------------------|--|------|-------------|
| 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

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

| Booking list | | | | | | | | |
|--------------|-------------|------------|---------------|---------------|--------------|-------------------------------------|--------------------|--------------------------------|
| | | | | | | | | Search: <input type="text"/> |
| # | Booking ID | Member ID | Full name | Identity card | Phone number | Movie | Time | Seat |
| 1 | SV7FuDAxwX | 4SqIOzc7Mm | Tran Van Tien | 123456789 | 0775335515 | Doctor Strange: Phù Thủy Tối Thượng | 01/12/2018 - 21:00 | 2D 2E 2F Successful booking |
| 2 | GsAGIM0bqG5 | 4SqIOzc7Mm | Tran Van Tien | 123456789 | 0775335515 | Doctor Strange: Phù Thủy Tối Thượng | 01/12/2018 - 21:00 | 1D 1E 1F Get ticket |
| 3 | rv5v4Mkigb | 4SqIOzc7Mm | Tran Van Tien | 123456789 | 0775335515 | Doctor Strange: Phù Thủy Tối Thượng | 01/12/2018 - 21:00 | 8B Successful booking |
| 4 | IRwNA6P4Ct | 4SqIOzc7Mm | Tran Van Tien | 123456789 | 0775335515 | Doctor Strange: Phù Thủy Tối Thượng | 01/12/2018 - 21:00 | 4A 4B 4C Successful booking |
| 5 | QdUWVGQxJr | 4SqIOzc7Mm | Tran Van Tien | 123456789 | 0775335515 | Doctor Strange: Phù Thủy Tối Thượng | 01/12/2018 - 21:00 | 1A 1C 1B Successful booking |
| 6 | iKXHDmkl | 4SqIOzc7Mm | Tran Van Tien | 123456789 | 0775335515 | Doctor Strange: Phù Thủy Tối Thượng | 01/12/2018 - 21:00 | 1D 1E 1F Successful booking |
| | | | | | | | | Previous 1 Next |

| 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

TICKET INFORMATION

Doctor Strange: Phù Thủy Tối Thượng

| | |
|---------|------------|
| Screen: | Scrn02 |
| Date: | 01/12/2018 |
| Time: | 21:00 |
| Seat: | 1D 1E 1F |
| Total: | 135.000đ |

Member information

| | |
|----------------------|---|
| Member ID: | 4SqIOzc7Mm |
| Full name: | Tran Van Tien |
| Identity card: | 123456789 |
| Phone number: | 0775335515 |
| Score: | 50.000 |
| Convert to ticket: * | <input type="radio"/> Agree <input type="radio"/> Disagree |

Confirm booking successfully
Back

| | | | |
|-------------------|--|---|--|
| 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

TICKET INFORMATION

Doctor Strange: Phù Thủy Tối Thượng

| | |
|------------------------------|------------|
| Screen: | Scrn02 |
| Date: | 01/12/2018 |
| Time: | 21:00 |
| Seat: | 1D 1E 1F |
| Score for ticket converting: | 135.000 |
| Total: | 135.000d |

Member information

| | |
|----------------|---------------|
| Member ID: | 4SqlOzc7Mm |
| Full name: | Tran Van Tien |
| Identity card: | 123456789 |
| Phone number: | 0775335515 |

[✕ Back](#)

| | | | |
|-----------------------------|--|------|-------------|
| 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

| Employee list | | | | | | | | | | |
|---|------------|---------------|---------------|--------|--------------------|---------------|--------------|---------|---------------|---|
| <div> <div>Add new</div> <div>Search: <input type="text"/></div> </div> | | | | | | | | | | |
| # | Username | Full name | Date of birth | Gender | Email | Identity card | Phone number | Address | Register date | Edit Delete |
| 1 | nhanvien01 | Tran Van Tien | 21/11/1996 | F | tientran@gmail.com | | 6 | Hue | 07/11/2018 | Edit Delete |
| <div> <div>Previous</div> <div>1</div> <div>Next</div> </div> | | | | | | | | | | |

| | | | |
|----------------|--|------|-------------|
| 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

Account: *

Password: *

Confirm password: *

Full name: *

Date of birth: *

Gender: *

☒ Nam ☐ Nữ

Identity card: *

Email: *

Address: *

Phone number: *

Image:

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| | | | |
|------------------|----------------------------|------|-------------|
| 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

Account: *

Password: *

Confirm password: *

Full name: *

Date of birth: *

Gender: *
☐ Nam ☒ Nữ

Identity card: *

Email: *

Address: *

Phone number: *

Image:
 Không có tệp nào được chọn

| | | | |
|------------------|---------------------------------------|---|-------------|
| 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 | checkbox | 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

Are you sure you want to delete this record?

OK
Hủy

| | | |
|----------------|--|---|
| 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 | checkbox | 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

| # | Cinema room ID | Cinema room | Seat quantity | Seat detail |
|---|----------------|---------------|---------------|-----------------------------|
| 1 | 1 | Cinema room 1 | 60 | Seat detail |
| 2 | 2 | Cinema room 2 | 60 | Seat detail |
| 3 | 3 | Cinema room 3 | 60 | Seat detail |
| 4 | 4 | Cinema room 4 | 60 | Seat detail |
| 5 | 23 | Test | 60 | Seat detail |
| 6 | 25 | Test | 55 | Seat detail |

| | | | |
|----------------|---|------|-------------|
| 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

Seat detail: Cinema room 1

Screen

☐ Seat Normal ☒ Seat VIP

| | | | |
|----------------|--|---|--|
| 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

| Movie list | | | | | | | | |
|-------------------------|-----------------------|---|--------------|---------------------------|----------|---------|------------------------|------------------------|
| Add new | | Search: <input type="text"/> | | | | | | |
| # | Movie (ENG) | Movie (VN) | Release Date | Movie Production Company | Duration | Version | Detail | Delete |
| 1 | A | Doctor Strange: Phù Thủy Tối Thượng | 18/11/2018 | Marvel Cinematic Universe | 116 | 2D, 3D | Detail | Delete |
| 2 | A | Doctor Strange: Phù Thủy Tối Thượng | 12/11/2018 | Marvel Cinematic Universe | 116 | 2D | Detail | Delete |
| 3 | Avengers Infinity War | Avengers: Cuộc Chiến Vô Cực | 25/04/2018 | Marvel Cinematic Universe | 150 | 2D, 3D | Detail | Delete |
| 4 | Doctor Strange | Doctor Strange: Phù Thủy Tối Thượng | 09/11/2018 | Marvel Cinematic Universe | 116 | 2D, 3D | Detail | Delete |
| | | Previous 1 Next | | | | | | |

| | | | |
|----------------|---|------|-------------|
| 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

Movie name (ENG): *

Movie name (VN): *

From date: *

To date: *

Actor: *

Movie Production Company: *

Director: *

Duration: *

Version: *

Type: *

☐ Hành động
 ☐ Viễn tưởng
 ☐ Kinh dị

☐ Hải hước
 ☐ Chiến tranh
 ☐ Phiêu lưu

☐ Lãng mạn
 ☐ Kiểm hiệp
 ☐ Tâm lý 18+

☐ Tình cảm
 ☐ Âm nhạc
 ☐ Hoạt hình

Cinema room: *

Schedule: *

☐ 08:00
 ☐ 13:30
 ☐ 18:30

☐ 09:00
 ☐ 14:30
 ☐ 19:00

☐ 10:00
 ☐ 15:00
 ☐ 20:00

☐ 11:00
 ☐ 17:00
 ☐ 21:00

Content: *

Image:


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| | | | |
|-----------------------|---|-------------|--------------------|
| 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

Movie detail: Avengers Infinity War



Movie name (ENG): *

Movie name (VN): *

From date: *

To date: *

Actor: *

Movie Production Company: *

Director: *

Duration: *

Version: *

Type: *

☒ Hành động
☒ Hải hước
☐ Lãng mạn
☐ Tình cảm

☒ Viễn tưởng
☐ Chiến tranh
☐ Kiếm hiệp
☐ Âm nhạc

☐ Kinh dị
☒ Phiêu lưu
☐ Tâm lý 18+
☐ Hoạt hình

Cinema room: *

Schedule: *

☐ 08:00
☐ 09:00
☒ 10:00
☒ 11:00

☐ 13:30
☒ 14:30
☒ 15:00
☒ 17:00

☐ 18:30
☒ 19:00
☒ 20:00
☒ 21:00

Content: *

Avengers: Infinity War sẽ đưa người xem đến với cuộc chiến định mệnh giữa nhóm Avengers, các anh hùng của Trái Đất, Đội Vệ binh Dải ngân hà với bạo chúa vũ trụ Thanos. Đây là một kẻ thù vô cùng hùng mạnh, hắn từng đứng đằng sau giết đầy nhiều sự kiện trong các phần khác với đã tâm cuối cùng là chiếm được sáu Viên đá Vô cực (Infinity Stones) nằm rải rác khắp vũ trụ.

Image:

Không có tệp nào được chọn

| 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

Are you sure you want to delete this record?

OK Hủy

| | | |
|-----------------------|--|--|
| 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

Promotion list

[+ Add new](#)

Search:

| # | Promotion ID | Title | Start Time | End Time | Discount Level | Detail | Edit | Delete |
|---|--------------|--------------------|------------|------------|----------------|-------------------|-------------------|-------------------|
| 1 | 1 | Khuyến mãi năm mới | 06/11/2018 | 30/11/2018 | 5.000 | Chúc mừng năm mới | ✎ | ✖ |
| 2 | 4 | Khuyến mãi năm mới | 06/11/2018 | 07/11/2018 | 50.000 | Chúc mừng năm mới | ✎ | ✖ |
| 3 | 7 | Khuyến mãi năm mới | 06/11/2018 | 07/11/2018 | 50.000 | Chúc mừng năm mới | ✎ | ✖ |
| 4 | 8 | Khuyến mãi năm mới | 17/11/2018 | 30/11/2018 | 50.000 | Chúc mừng năm mới | ✎ | ✖ |
| 5 | 9 | Khuyến mãi năm mới | 06/11/2018 | 07/11/2018 | 50.000 | Chúc mừng năm mới | ✎ | ✖ |

[Previous](#)
[1](#)
[Next](#)

| | | | |
|----------------|--|---------|-------------|
| 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

Add new Promotion

Title:

Start Time:

End Time:

Discount Level:


Detail:

Image:
 Chọn tệp | Không có tệp nào được chọn

| | | | |
|-----------------------|---|-------------|--------------------|
| 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:
Chon tệp Không có tệp nào được chọn

| | | | |
|----------------|--|--|-------------|
| 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

Are you sure you want to delete this record?

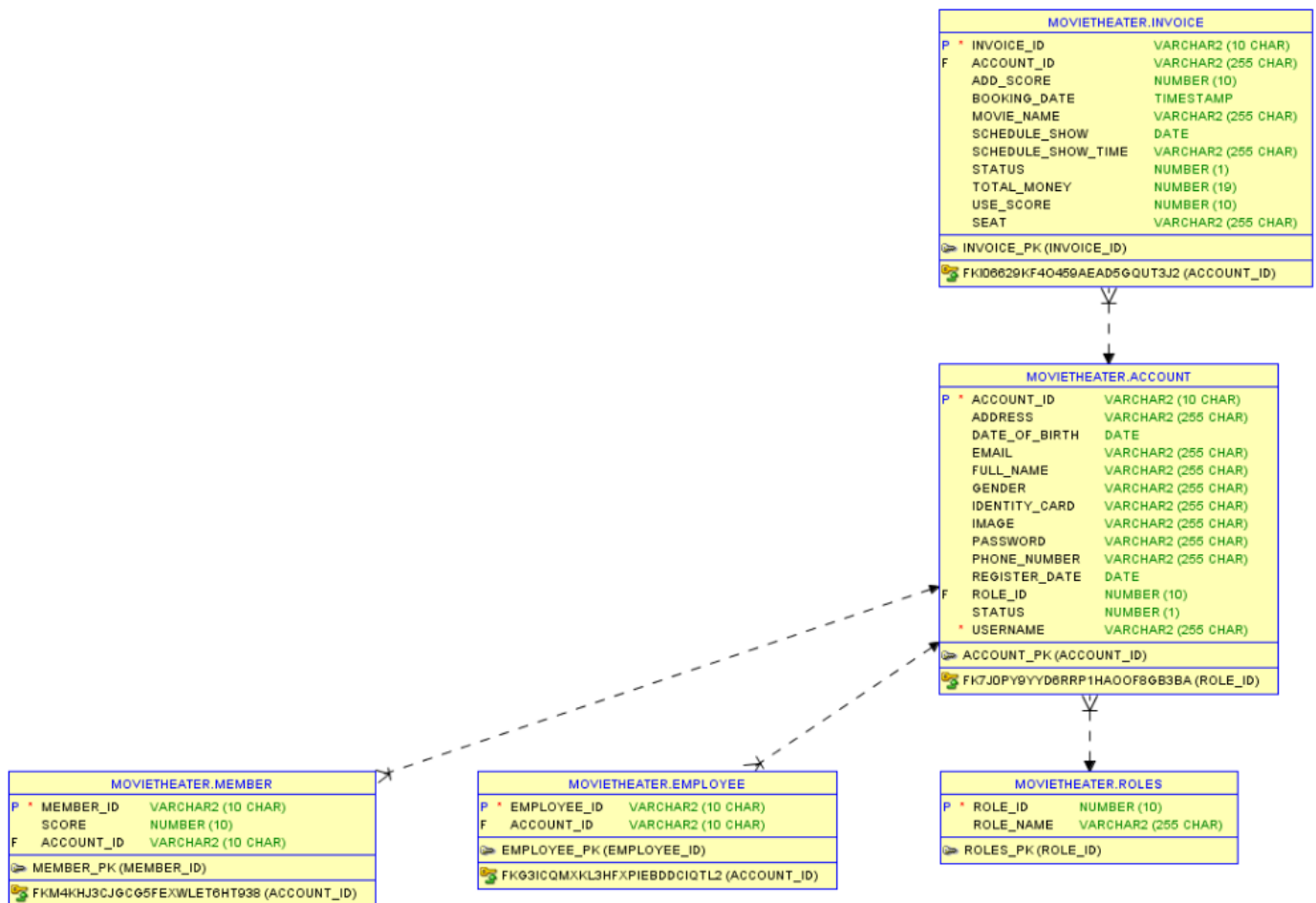
| | | |
|----------------|--|---------|
| Screen | Delete promotion | |
| Description | Delete information of the promotion | |
| Screen Access | Admin clicks menu Promotion management -> Delete | |
| Screen Content | | |
| Item | Type | Data |
| Yes | Button | |
| No | Button | |
| Screen Actions |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

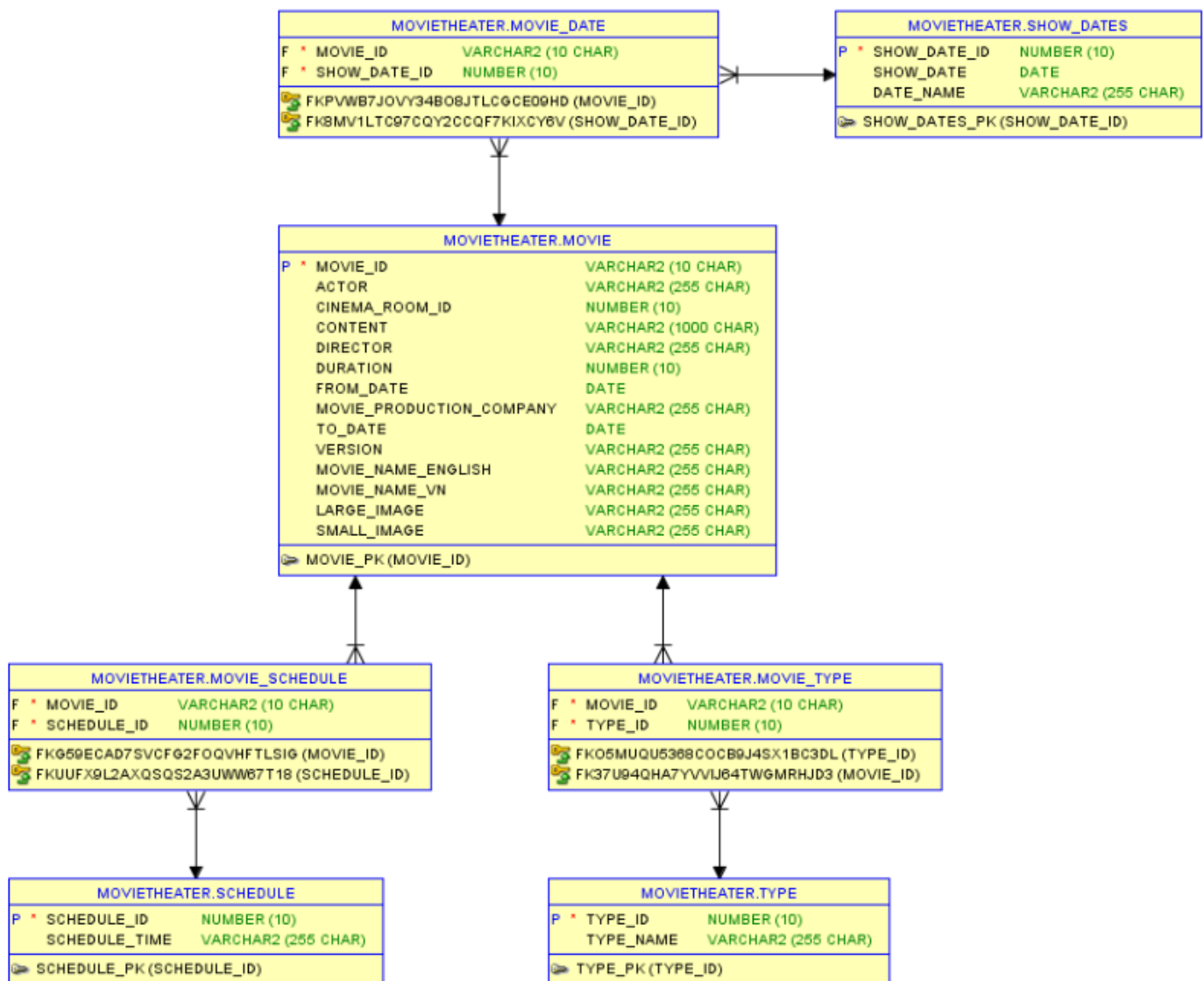
| | | |
|---------|---------------------------|---|
| Confirm | Agree to delete promotion | Promotion is deleted from database and display screen of promotion list |
| No | Close confirm screen | Display screen promotion list |

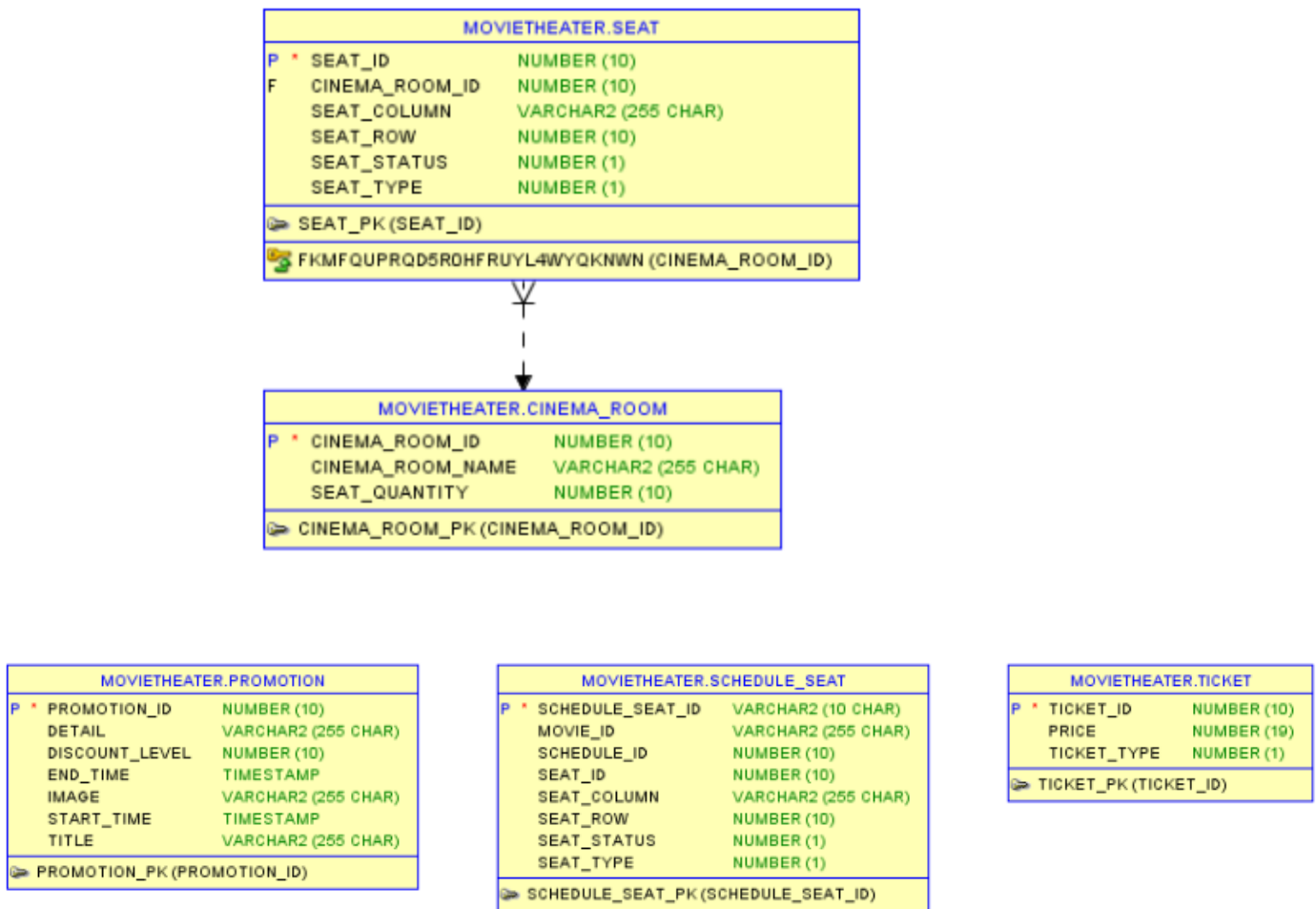
3.2. Detailed Non-Functional Requirements

3.2.1 Logical Structure of the Data

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







3.2.2 Security

TBD

3.2.3 Performance

TBD