

Use Case “Place Order”

1. Use case code

UC001

2. Brief Description

This use case describes the interaction between the user and the Media application when the user wishes to place an order.

3. Actors

- User
- System

4. Preconditions

5. Basic Flow of Events

1. The user(s) choose to add a product to cart
2. The user clicks the Cart icon
3. The system redirects to the cart screen
4. The system shows a detailed order
5. The user views, adjusts and confirms the order
6. The system requires entering the shipping address
7. The user enters and confirms the shipping address
8. The system saves information and offers the option to place rush order or place an order
9. The user chooses and confirm method delivery.

6. Alternative flows

Table N-Alternative flows of events for UC Place order

No	Location	Condition	Action	Resume location
1.	At Step 5	If the delivery info is invalid	▪ AIMS software notifies that the delivery info is invalid (blank or wrong format)	At Step 3
2.	At Step 5	If the user chooses to place a rush order	▪ AIMS software inserts use case “Place rush order”	At Step 5

7. Input data

Table A-Input data of delivery information

No	Data fields	Description	Mandatory	Valid condition	Example
1.	Receiver Name		Yes		Nguyen Van A
2.	Phone Number		Yes	10 digits	0123456789
3.	Province	Choose from a list	Yes		
4.	Address		Yes		12, 34 Alley of Tran Tong street, Cau district
5.	Shipping instructions		No		

8. Output data

Table B-Output data of order information and shipping fee

No	Data fields	Description	Display format	Example
1.	Title	Title of a media product		DVD Phim
2.	Price	Price of the corresponding media product	Comma for thousands separator Positive integer Right alignment	123,000
3.	Quantity	Quantity of the corresponding media	Positive integer Right alignment	2
4.	Amount	Total money of the corresponding media	Comma for thousands separator Positive integer Right alignment	246,000
5.	Subtotal	Total amount of all products in the order		2,316,600
6.	Shipping fee			30,000

9. Postconditions

Customer pays the order

Use Case “Place Rush Order”

1. Use case code

UC002

2. Brief Description

In the AIMS Project, UC “Place Rush Order” describes the interaction between customers and AIMS software when the customer wishes to place rush order.

3. Actors

3.1 Customer

4. Preconditions

Customer choose place rush order delivery method.

5. Basic Flow of Events

1. AIMS software check the delivery address support rush order delivery and check the products are eligible for rush order delivery

2. AIMS software requests additional rush order delivery information from the customer (see table 1)

3. AIMS software calculates and displays order and shipping fees (see Table 2)

4. Customer ask to pay order

6. Alternative flows

Table N-Alternative flows of events for UC Place order

No	Location	Condition	Action	Resume location
3.	At Step 1	If no products are eligible or the delivery address doesn't support rush order delivery	AIMS software prompts the customer to update the delivery information or delivery method.	End use case

7. Input data

Table A-Input data of ...

No	Data fields	Description	Mandatory	Valid condition	Example
1	Shipping Detail		No		
2.	Shipping Instruction	Instruction of shipping	No		E5 Hall
3.	Delivery Time	Delivery time	No		18/06/2024

8. Output data**Table B-Output data of ...**

No	Data fields	Description	Display format	Example
1.	Title	Title of the product		-DVD The gifted
2.	Price	Price of corresponding the media product	-Comma for the thousands separator -Positive integer -Right alignment	-100,000
3.	Quantity	Quantity of the corresponding media	-Positive integer -Right alignment	- 2
4.	Amount	Total money of corresponding media	-Comma for the thousands separator -Positive integer -Right alignment	-200,000
5.	Subtotal	Total amount of all products in the order	-Comma for the thousands separator -Positive integer -Right alignment	-250,000
6.	Shipping fee	Fee for place order	-Comma for the thousands separator -Positive integer -Right alignment	-15,000
7.	Shipping Fee rush	Fee shipping additional for rush order	-Comma for the thousands separator -Positive integer	-30,000

			-Right alignment	
9. Postconditions				

Use Case “Pay order”

1. Use case code

UC003

2. Brief Description

This use case describes the interaction between Customer and AIMS software when Customer wishes to pay an order

3. Actors

a. Customer

4. Preconditions

Customer must place an order

5. Basic Flow of Events

1. AIMS software displays the invoice
2. Customer asks to pay the invoice
3. AIMS software redirects to VNPay with payment information
4. VNPay notifies the transaction result
5. AIMS software saves the payment transaction

6. Alternative flows

Alternative flows of events for UC Place order

No	Location	Condition	Action	Resume location
1	At Step 5	If the customer cancels the payment transaction		At Step 1

7. Input data

8. Output data

Table - Output data of Pay Order

No	Data fields	Description	Display format	Example
1	Amount	Amount of money	-Comma for the thousands separator -Positive integer -Right alignment	100,000
2	Order info	Information of order		
3	Bank code	The code for the name of the bank		NCB
4	Pay date	Day that order is payed		22/06/2024
5	Transaction ID	ID of the transaction		
6	Transaction Type	Type of the transaction		
7	Transaction Status	Status of the transaction		Canceled
8	Promotion code	Promotion code for discount		
9	Promotion amount	Discount amount	-Comma for the thousands separator -Positive integer -Right alignment	

9. Postconditions

Use Case “Signup”

1. Use case code

UC004

2. Brief Description

This use case describes the interaction between customers and AIMS system when the customer wishes to create an account.

3. Actors

3.1 Customer

4. Preconditions

There is no precondition.

5. Basic Flow of Events

1. Customer requests to create an account.
2. AIMS software displays the form of signup information.
3. Customers enters and submits signup information (see Table 1).
4. AIMS software checks the validation of information.
5. AIMS software notifies account successfully created and display the homescreen logged in with new account.

6. Alternative flows

Table N - Alternative flows of events for UC Signup

No	Location	Condition	Action	Resume location
1.	At Step 4	If customer doesn't fill all the fields of the form	§ The AIMS software notidies the error “Vui lòng điền đầy đủ các trường”	At Step 3

2	At Step 4	If customer full name exceed 30 characters	§ The AIMS software notifies the error “Tên không được vượt quá 30 kí tự”	At Step 3
3.	At Step 4	If the phone number is not valid	§ The AIMS software notifies the error “Số điện thoại không hợp lệ”	At Step 3
4.	At Step 4	If the username is already in the database	§ The AIMS software notifies the error “Tài khoản đã tồn tại”	At Step 3
5.	At Step 4	If the username length is not from 8-20 characters	§ The AIMS software notifies the error “Tài khoản phải có độ dài từ 8-20 kí tự”	At Step 3
6.	At Step 4	If the password is in wrong format	§ The AIMS software notifies the error “Sai format mật khẩu”	At Step 3

7. Input data

Table 1 - Input data of signup information

No	Data fields	Description	Mandatory	Valid condition	Example
1.	Full name	Customer's full name	Yes		Tran Duc Nam
2.	Phone number	Customer's phone number	Yes	10 digits	0888256223
3.	Date of birth	Date format mm/dd/yy	Yes		12/12/2024
4.	Username	Customer's username	Yes	8-20 character long	namductran03

5.	Password	Customer's password	Yes	Include uppercase letter, special character and number	N@mtr4n123
6.	Confirm password		Yes		Normal delivery

8. Output data

There is no output data.

9. Postconditions

A new account is created and customer is successful logged in his/her account or AIMS display error messages if customer's credential is not valid.

Use Case “Login”

1. Use case code

UC001

2. Brief Description

This use case describes the interaction between customers and AIMS system when the customer wishes to login to the system.

3. Actors

3.1 Customer

4. Preconditions

There is no precondition.

5. Basic Flow of Events

1. Customer requests to login.
2. AIMS software displays the form of login information.
3. Customer enters and submits his/her credential (see Table 1).
4. AIMS software checks the credentials of customer.
5. AIMS software displays homescreen.

6. Alternative flows

Table N - Alternative flows of events for UC Login

No	Location	Condition	Action	Resume location
1.	At Step 4	If the credential is not valid	§ The AIMS software notifies an error message	At Step 3

7. Input data

Table 1 - Input data of login

No	Data fields	Description	Mandatory	Valid condition	Example
1.	Username	Customer's username	Yes	Match with database	namductran03
2.	Password	Customer's password	Yes	Match with database	N@mtr4n123

8. Output data

There is no output data.

9. Postconditions

Customer is successful logged in his/her account or AIMS display error messages if customer's credential is not valid.