HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY

School of Information and Communications Technology

Software Requirement Specification

Version 1.1

AIMS Project

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*Hà Nội, 10/2023*

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# Introduction

## Objective

This document presents the detailed description for User management subsystem, user group and their usable function at run time. This document also describes the objectives and features of the system, interfaces and constraints of the system in response to external action.

This document is for stakeholders and related software developers.

## Scope

## Glossary

## References

# Overall requirements

## Actors

* The system includes 3 main actors: customer, admin and vnpay

## General use case diagram

A diagram of a product

Description automatically generated

## Lower-level use case diagrams

### Use case “Place order”:

A diagram of a product

Description automatically generated

### Use case “Pay order”:

A diagram of a process

Description automatically generated

## Business processes

### A diagram of a diagram Description automatically generated

# Detail requirements

Details of the use cases given in following sections are specified below.

## Specification of Use case UC001 - “Place order”

1. **Use case code**

UC001

1. **Brief Description**
2. **Actors**

* User

1. **Preconditions**

* **No**

1. **Basic Flow of Events**
2. User view products
3. User add products to cart
4. User update cart
5. User request to place order
6. System check the quantity of products in stock
7. User update delivery info
8. System calculate total order cost
9. **Alternative flows**

Table N-Alternative flows of events for UC Place order

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Location** | **Condition** | **Action** | **Resume location** |
|  | At Step 5 | If the product quantity is not enough | * Notify user | Resumes at Step 6 |

1. **Input data**

Table A-Input data of …

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Mandatory** | **Valid condition** | **Example** |
|  | Product name |  | Yes | Maximum of 50 characters | Dia than LP |
|  | Product quantity |  | Yes | Maximum is 999 | 02 |
|  | Recipient's name |  | Yes | Maximum of 50 characters | Duong Minh Truong |
|  | Recipient's phone number |  | Yes | 10 digits | 0123456789 |
|  | Recipient's address |  | Yes |  | Số 1 – Đại Cồ Việt |
|  | Delivery Method |  | Yes | 1 of 2 methods | Fast delivery |

1. **Output data**

Table B-Output data of order form

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Display format** | **Example** |
|  | Product name |  |  | Dia than LP |
|  | Product quantity |  |  | 02 |
|  | Recipient's name |  |  | Duong Minh Truong |
|  | Recipient's phone number |  | Right alignment | 0123456789 |
|  | Recipient's address |  |  | Số 1 – Đại Cồ Việt |
|  | Delivery Method |  |  | Fast delivery |
|  | Shipping Fee |  | Right alignment | 15.000 VNĐ |

1. **Postconditions**

## Specification of Use case UC002 - “Pay order”

1. **Use case code**

UC002

1. **Brief Description**
2. **Actors**

* User

1. **Preconditions**

* **No**

1. **Basic Flow of Events**
2. User select payment method
3. User review and confirm order
4. User process payment
5. User view transaction detail
6. System record order and transaction
7. **Alternative flows**

Table N-Alternative flows of events for UC Place order

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Location** | **Condition** | **Action** | **Resume location** |
|  | At Step 10 | If process payment fail | * Notify user | Resumes at Step 11 |

1. **Input data**

Table A-Input data of payment form

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Mandatory** | **Valid condition** | **Example** |
|  | Card holder name |  | Yes | Maximum of 50 characters | Duong Minh Truong |
|  | Card number |  | Yes | 16 digits | 1234 5678 1234 5678 |
|  | Expiration date |  | Yes | Consist of month and last 2 digits of year only | 10/23 |
|  | Security code |  | Yes | 3 digits | 123 |

1. **Output data**

Table B-Output data of payment form

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Display format** | **Example** |
|  | Transaction ID |  |  |  |
|  | Card holder name |  |  | Duong Minh Truong |
|  | Amount |  | Right alignment | 1.600.000 VNĐ |
|  | Transaction  Content |  |  |  |
|  | Transaction  Date |  | dd/mm/yyyy | 07/10/2023 |

1. **Postconditions**

# Supplementary specification

## Functionality

## Usability

## Reliability

## Performance

## Maintainability

## Design Constraints