Software Requirements Specification

for

Men’s Clothing Store

Version 1.0 approved

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04/03/2021

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Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
|  |  |  |  |
|  |  |  |  |

# Introduction

## Purpose

## Document Conventions

## Project Scope

## References

# Overall Description

## Product Perspective

## 

## User Classes and Characteristics

## Operating Environment

## Design and Implementation Constraints

## Assumptions and Dependencies

# System Features

## Order Feature

<

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | 6. Order Product | | |
| Created By: | Tran Nhat Minh | Date Created: | 19/01/2021 |
| Primary Actor: | Customer | Secondary Actors: | Clothes Inventory System |
| Trigger: | User has chosen a product and click add to cart | | |
| Description: | A customer accesses the Clothes Web System from the website and views the clothes, selects clothes items, and add it to cart. After all customer add address and phone number and clothes to be delivered to them. | | |
| Preconditions: | 1. Guest has logged in | | |
| Postconditions: | 1. Clothes order is stored in database with a status of “Accepted” 2. Update quantity clothes in database | | |
| Normal Flow: | 1. Clothes Web System display clothes and discount. 2. Customer click to cloth for view more detail. 3. Clothes Web System display cloth pictures, cloth size, cloth quantity, and cloth price. 4. Customer clicks add product to cart. 5. Clothes Web System display number of products in Cart. 6. Customer clicks to cart to prepare payment. 7. Clothes Web System display number and detail of clothes in cart. 8. Customer specifies payment method. 9. Clothes Web System display total price include the price of clothes and payment method. 10. Customer confirms order. 11. Clothes Web System confirms acceptance of the order. 12. Clothes Web System stores order to database sends order information to store. | | |
| Alternative Flows: | 1. If cart already existed, Clothes Web System return to old cart. 2. If cart not existed, Clothes Web System create new cart. 3. If quantity in database is less than quantity clothe in order, Clothes Web System notify to customer to change and can’t confirm order. | | |
| Exceptions: | Quantity of clothe in database is less than quantity of clothe in order | | |
| Priority: | High | | |
| Frequency of Use: | Every time the customer wants to buy a clothes | | |
| Business Rules: | 1. All cloth in the order must be paid for by using the same payment method. 2. All cloth in the order must delivered in the time. 3. Order price is calculated as the sum of each cloth item price times the quantity of that clothe item ordered, plus a delivery charge if a meal is delivered outside the free delivery zone. 4. The price of delivered is free:  * If distance less than 500km and the total price of clothe is more than 500.000 vnd * If distance less than 1000km and the total price of clothe is more than 1.000.000vnd  1. Network transmissions that involve financial information or personally identifiable information require 256-bit encryption. 2. Payment method is  * Cash On Delivery (COD) * Visa * Digital Wallet | | |
| Other Information: |  | | |
| Assumptions: | Assume that 10 percent of Custoemr will order the clothe in normal. | | |

## Calculate Salary Feature

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | Calculate salary | | |
| Created By: | Văn Đức Huy | Date Created: | 19/01/2021 |
| Primary Actor: | Staff of store | Secondary Actors: | Staff account Database |
| Trigger: | Automatic at the end of the month | | |
| Description: | Calculate salary of every staffs of the store base on monthly sales | | |
| Preconditions: | 1. Have a staff account 2. Work at the store | | |
| Postconditions: | 1. The system calculate salary for staff at the end of the month 2. Staff receive salary at the bank account | | |
| Normal Flow: | 1. The system checks every staff account and get the monthly sales 2. The system will automatically calculate the salary of staff 3. Notification for staff 2 days after transfer money 4. The system transfers the money into the staff bank account base on the account number in the staff information | | |
| Alternative Flows: | 1. Invalid staff account because the staff is terminated when he/she quit the job  2. If the staff doesn’t add the number account information the system must notify him/her | | |
| Exceptions: | 1. Can’t transfer the money -> in this case the store owner will receive the notify and pay the salary for staff in cash  2. The money being rollback because the bank account doesn’t exist -> notify staff by email  3. Number account isn’t true -> notify for staff by email or at the login session of staff | | |
| Priority: | Medium | | |
| Frequency of Use: | Once a month | | |
| Business Rules: | The system will calculate income of staff = Position salary (P1) + Competency salary (P2) + Performance salary (P3) + Sales salary (% of sales) | | |
| Other Information: | Store owner can modify this salary formula at any time | | |
| Assumptions: |  | | |

# Data Requirements

## Logical Data Model

## 

## Data Dictionary

* Shopping Order

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Composition or Data Type | Length | Values |
| CustomerID | Number ID of the customer who buy the clothes | Integer |  | Auto increase – INDENTITY(1,1)  Start from 1 |
| Customer Phone | Telephone number of the customer who ordered cloth | Alphabetic | 20 |  |
| Customer Address | Address of the customer for delivery | Alphabetic | 200 |  |
|  |  |  |  |  |
| CategoryID | Number ID of the category of cloth | Integer |  | Auto increase - INDENTITY(1,1)  Start from 1 |
| Category Name | Name of the category which cloth attached | Alphabetic | 50 |  |
| ClothID | Number ID of the cloth | Integer |  | Auto increase - INDENTITY(1,1)  Start from 1 |
| Cloth Name | Name of the cloth | Alphabetic | 50 |  |
| Cloth Color | Color of the cloth | Alphabetic | 50 |  |
| Cloth Image | Image detail of the cloth | Alphabetic | 200 |  |
| Cloth Quantity | Quantity left of the cloth which customer can order | Integer |  |  |
| Cloth Size | Size of the cloth which user choose when they order | Alphabetic | 20 |  |
| Order Detail Quantity Cloth | Quantity of cloth user want to order |  |  | Maximum quantity = quantity presently in inventory |
| Order Detail Size | Size of cloth user want to order | Alphabetic | 20 |  |
| Order Total Price | Total price of order | Numeric, Dollars and Cents |  |  |
| OrderID | Unique ID of the order which created when customer confirm the order | Alphabetic | 20 | Auto generate format: YYYYMMdd-hhmmss-xxxx (xxxx is a number generate) |
| Order Date | The date of order when user order | Date |  | Default is current date |
| Order Payment Method | How the customer is paying for a meal he ordered | Alphabetic | 20 | Cash on delivery, cash, credit card, debit card |
| Order Delivery Cost | Price of the delivery | Numeric, Dollars and Cents |  |  |

* Calculate Staff Salary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Composition or Data Type | Length | Values |
| StaffID | Store ID of Staff | Varchar | 50 |  |
| StaffName | Store Name of Staff | Nvarchar | 50 |  |
| Phone | Store phone number of Staff | Varchar | 20 | Validate when insert just accept number |
| BankNumber | Store bank number of staff | Varchar | 30 | Validata when insert  Just accept number and (-) |
| SalaryDate | Store salary date of staff | Date(MM-DD-YYYY) |  |  |
| Salary | Store monthly salary of staff | Real |  |  |
| monthlySales | Store the quantitfy of product of this staff sale in month | Int |  | Validate when insert |

## Reports

## Data Acquisition, Integrity, Retention, and Disposal

# External Interface Requirements

## User Interfaces

## Software Interfaces

## Hardware Interfaces

## Communications Interfaces

# Quality Attributes

## Usability

USE-1: The Men’s Cloth Store shall suggest related cloth to customer.

USE-2: The Men’s Cloth Store automatic send salary calculated per month to store owner.

USE-3: The Men’s Cloth Store checks customer reputation to automatically confirm the application or need a caller to confirm.

## Performance

PER-1: The system shall accommodate a total of 1000 users and a maximum of 200 concurrent users during the peak usage time window of 8:00 A.M. to 21:00 A.M. local time, with an estimated average session duration of 10 minutes.

PER-2: 95% of webpages generated by the Men’s Cloth Store shall download completely within 5 seconds from the time the user requests the page over a 20Mbps or faster Internet connection.

## Security

SEC-1: All network transactions that involve financial information or personally identifiable information shall be encrypted per BR-33.

SEC-2: Users shall be required to log on to the Men’s Cloth Store for all operations except viewing the clothes.

SEC-3: Only authorized Store Owner shall be permitted to work with cloth.

SEC-4: The system shall permit Customer to view only orders that they ordered.

SEC-5: The system encrypted password of user via SHA-256.

## Safety

SAF-1: User can view all ingredients of the product and note such as not to iron with too high temperature or wash the product with a washing machine.

## Availability Requirements

AVL-1: The clothing store shall be available at least 98% of the time between 7:00 A.M. and midnight local time and at least 90% of the time between midnight and 7:00 A.M. local time, excluding scheduled maintenance windows.

## Robustness Requirements

ROB-1: If the connection between the user and the clothing store is broken prior to a new order being either confirmed or terminated, the clothing store shall enable the user to recover an incomplete order and continue working on it.











