Software Requirements Specification

for

System solution for accessories women store

Version 1.0 approved

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Revision History

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

# Introduction

<The introduction presents an overview to help the reader understand how the SRS is organized and how to use it.>

## Purpose

<Identify the product whose software requirements are specified in this document, including the revision or release number. Describe the different types of reader that the document is intended for, such as developers, project managers, marketing staff, users, testers, and documentation writers.>

## Document Conventions

<Describe any standards or typographical conventions used, including the meaning of specific text styles, highlighting, or notations. If you are manually labeling unique requirement identifiers, you might specify the format here for anyone who needs to add one later.>

## Project Scope

We provide the solution for that problems with a software system. It can help women save their time. They can buy items online on website, focus their history shopping, easily to contact with store and easy to choose the product.

Therefore, accessories stores for women can reach more customers. Moreover, owner will manage customer information more conveniently. Making the next sales plans on analyst customer’s shopping behavior.

## References

<List any documents or other resources to which this SRS refers. Include hyperlinks to them if they are in a persistent location. These might include user interface style guides, contracts, standards, system requirements specifications, interface specifications, or the SRS for a related product. Provide enough information so that the reader can access each reference, including its title, author, version number, date, and source, storage location, or URL.>

# Overall Description

<This section presents a high-level overview of the product and the environment in which it will be used, the anticipated users, and known constraints, assumptions, and dependencies.>

## Product Perspective

## 

# System Features

## System Feature 1

<Don’t really say “System Feature 1.” State the feature name in just a few words.>

### Description

<Provide a short description of the feature and indicate whether it is of High, Medium, or Low priority.>

### Stimulus/Response Sequences

<List the sequences of user actions and system responses that stimulate the behavior defined for this feature. These will correspond to the dialog elements associated with use cases.>

### Functional Requirements

## System

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | Order product | | |
| Created By: | Pham Can Long | Date Created: | 19-1-2021 |
| Primary Actor: | Customer | Secondary Actors: |  |
| Trigger: | The Patron want to buy product online | | |
| Description: |  | | |
| Preconditions: | 1. The Patron have to choose product and quantity not out of stock. 2. The Patron have to fill all the information base for system like email,phone, address, and name | | |
| Postconditions: | 1. The number of quantity have to change follow quantity in of order 2. Email will send checkout payment to customer 3. The status of product is active | | |
| Normal Flow: | 1. The Patron select one item 2. The Patron indicates that order is complete 3. System displays ordered menu items, individual prices, and total price, including taxes and delivery charge 4. The Patron choose way of delivery, banking 5. The Patron confirm to order 6. System send an email to user about his order to confirm order 7. System store an order | | |
| Alternative Flows: |  | | |
| Exceptions: | 1. The Patron return the product   - The order will cancel and set status cancel   1. The Patron doesn’t receive the product because user   - The order will cancel and set status cancel   1. The Patron doesn’t receive the product because delivery system 2. The Patron contact to cancel order   - The order will cancel and set status cancel   1. The Patron cancel many order >3 times   - Block that user | | |
| Priority: | High | | |
| Frequency of Use: |  | | |
| Business Rules: | 1. If Patron not confirm email order,or phone System will cancel this product after 1 day 2. All products in a single order must be paid for by using the same payment method. 3. All Product in a single order must be delivered to the same location. 4. Order price is calculated as the sum of each food item price times the quantity of that food item ordered, plus applicable sales tax, plus a delivery charge if order is delivered outside the free delivery zone. | | |
| Other Information: |  | | |
| Assumptions: |  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | UC-1 Product statistics | | |
| Created By: | Huynh Huu Tin | Date Created: | 19-1-2021 |
| Primary Actor: | Shop owner | Secondary Actors: | Storage System |
| Trigger: | The shop owner wants to know the business situation of the store | | |
| Description: | The store owner updates the program to choose statistics by day, or by purchase, or by product type for statistics to know the necessary information. | | |
| Preconditions: | PRE-1: User’s identity has been authenticated.  PRE-2: business data is required | | |
| Post conditions: | POST-1: The user knows the statistical information  POST-2: The request must be submitted within the time allowed. | | |
| Normal Flow: | 1.0 Product statistics  1: User selects statistical information(duration, type of product…)  2: The system displays the requested information from the user | | |
| Alternative Flows: | 1.1 Product statistics per day  1.Request information for that day at the end of each day  2. Return to step 1 in normal flow | | |
| Exceptions: | 1.0 No input data available  1.The system notifies the user that search data is unavailable and asks the user to choose a new search data  2a.The user chooses another search option  2b.The user ends the product statistics process  2.0 The request was not sent within the time allowed  1. The system denied access | | |
| Priority: | High | | |
| Frequency of Use: | Average of one usage per day.At the end of the month, there will be 1 time used to aggregate data | | |
| Business Rules: | 1. Only store owner role can be access 2. Accessible during business hours (7 a.m. to 10 p.m.) 3. Allow product statistics within 3 months | | |
| Other Information: | Expect high frequency of executing this use case within first 2 weeks after system is released. | | |
| Assumptions: |  | | |

# Data Requirements

<This section describes various aspects of the data that the system will consume as inputs, process in some fashion, or create as outputs.>

## Logical Data Model

Order ERD

Delivery ERD

## 

## Data Dictionary

Order Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Composition or Data Type | Length | Values |
| id | Id of order. | varchar | 50 | Auto generate when order created |
| Order\_date | Date and time when order created | Date time | dd-mm-yyyy hh:mm | Current local time when order created |
| sum | Sum price of order after calculate sale value | double |  |  |
| Owner\_id | Id of customer who order the product | varchar | 50 |  |
| Sale\_id | Id of sale code when customer apply sale code | varchar | 50 |  |
| Status | Status of order. Present the order which complete or delivering | varchar | 50 |  |

OrderDetail Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Composition or Data Type | Length | Values |
| Product\_id | Id of product | varchar | 50 |  |
| Rating | Rating of customer who bought this product and the order owner | int |  | Value from 1 to 5 |
| Feed back | Feed back of customer who bought this product and the order owner | varchar | 500 |  |
| Order\_id | Id of order | varchar | 50 |  |
| Sale\_id | Id of sale code when customer apply sale code | varchar | 50 |  |
| price | Cost of a single unit product accessory for women | numeric, dollars and cents | dd.cc |  |

Sale table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Composition or Data Type | Length | Values |
| id | Id of product | varchar | 50 |  |
| Expired\_date | Time when sale code expired | Date time |  | Shop owner set |
| Create\_date | Time when shop owner create a discount | Date time |  | System auto generate when discount created |
| Type | Type of discount. Discount percent like 20% or values like 1USD | varchar | 50 | Percent or value |
| Discount | Discount of sale | double |  |  |

Product table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Composition or Data Type | Length | Values |
| id | id to distinguish different types of roles | varchar | 50 |  |
| name | Name of product | varchar | 50 |  |
| material | Material of product like gold, silver,… | varchar | 50 |  |
| create\_date | Time when product created | varchar | 50 | Current local time |
| quantity | Quantity product | varchar | 50 |  |
| description | Description about this product | varchar | 50 |  |
| category\_id | Category id of product | varchar | 50 |  |
| price | Price of product | double |  |  |

User table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Composition or Data Type | Length | Values |
| id | Id of user | varchar | 50 |  |
| name | Full name of user | varchar | 100 |  |
| email | Email of user | varchar | 100 |  |
| phone | Phone of user | varchar | 20 | Current local time |
| address | Address of user | varchar | 50 |  |
| status | Status an account like blocked, active, new | bit | 50 | Blocked, active, new |
| roleId | Role id of user | varchar | 50 |  |
| password | Password to login | varchar | 300 |  |

Role table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Composition or Data Type | Length | Values |
| roleId | Id of a role | varchar | 20 |  |
| roleName | Name of role | varchar | 50 | ADMIN, STAFF, CUSTOMER |

Delivery table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Composition or Data Type | Length | Values |
| id | Id of delivery | varchar | 50 |  |
| branches\_id | Id of branches | varchar | 50 |  |
| Name | The name of the delivery person | varchar | 50 |  |

Branches table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Composition or Data Type | Length | Values |
| id | Id of branches | varchar | 50 |  |
| name | Name of branches | varchar | 50 |  |
| headQuarters\_id | Id of headQuarters | varchar | 50 |  |
| address | the location where the branches is located | varchar | 50 |  |

HeadQuarters table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Composition or Data Type | Length | Values |
| id | Id of headQuarters | varchar | 50 |  |
| name | Name of headQuarters | varchar | 50 |  |
| address | the location where the headQuarters is located | varchar | 50 |  |

## Reports

|  |  |
| --- | --- |
| Report ID: | System-RPT-1 |
| Report Title: | Ordered Products History |
| Report Purpose: | Patron wants to see a list of all meals that he had previously ordered from the Process Impact cafeteria or local restaurants over a specified time period up to six months prior to the current date, so he can reorder a particular meal he liked. |
| Priority: | Medium |
| Report Users: | Patrons |
| Data Sources: | Database of previously placed orders |
| Frequency and Disposition; | Report is generated on demand by a Patron. Data in the report is static. Report is displayed on user's web browser screen on a computer, tablet, or smartphone. It can be printed if the display device permits printing. |
| Latency: | Complete report must be displayed to Patron within 3 seconds after it is requested. |
| Visual Layout: | Landscape mode |
| Header and Footer: | Report header shall contain the report title, Patron's name, and date range specified. If printed, report footer shall show the page number. |
| Report Body: | Fields shown and column headings:   * Order Number * Product Date * Ordered From ("product supplies) * Items ordered (list all items in the products order, their quantity, and their prices) * Total Products price * Tax * Delivery Charge * Total Price (sum of products item prices, tax, and delivery charge)   Selection Criteria: date range specified by Patron, inclusive of end points  Sort Criteria: reverse chronological order |
| End-of-Report Indicator: | None |
| Interactivity: | Patron can drill down to see ingredients and nutritional information for each item in the order |
| Security Access Restrictions: | A Patron may retrieve only his own products order history |

## Data Acquisition, Integrity, Retention, and Disposal

DI-1: The System shall retain Individual Patron meal orders for 6 months following the meal's delivery date.

DI-2: Application will retain customer shopping lists for one year after the date of purchase.

# External Interface Requirements

## User Interfaces

UI-1: The Accessories Store System screen displays shall conform to the Process Impact Internet Application User Interface Standard, Version 2.0 [3].

UI-2: The system shall provide a help link from each displayed webpage to explain how to use that page.

UI-3: The webpages shall permit complete navigation and food item selection by using the keyboard alone, in addition to using mouse and keyboard

## Software Interfaces

SI-1: Accessories Store System

SI-1.1: Shall transmit the quantities of product items ordered to the Accessories Inventory System through a programmatic interface.

SI-1.2: Shall poll the Accessories Inventory System to determine whether a requested product item is available.

SI-1.3: When the Cafeteria Inventory System notifies the system that a specific product item is no longer available or quantity is 0, the system shall remove that item from the list of products for the current date.

## Communications Interfaces

CI-1: The System shall send an email or text message (based on user account settings) to the Patron to confirm acceptance of an order, price, and delivery instructions.

CI-2: The System shall send an email or text message (based on user account settings) to the Patron to report any problems with the order or delivery.

# Quality Attributes

## Usability

USE-1: The software uses a user-friendly interface that makes it easy for 95% of users to access.

USE-2: The platform can guarantee 95% of transactions are successful

USE-3: The interface will be free from errors.

USE-4: The system will allow the user to cancel an order previously ordered with just one interaction.

## Performance

PER-1: The system shall accommodate a total of 100 users and a maximum of 50 concurrent users during the peak usage time window of 9:00 A.M. to 10:00 A.M. local time.

PER-2: The system latency is about 5ms per request.

PER-3: Interaction systems will respond no later than one hour from the time of sending

## Security

SEC-1: All functionality requires login permission except viewing and searching products

SEC-2: Only authorized Admin Managers shall be permitted to work with edit product information.

SEC-3: The system shall permit Patrons to view only orders that they placed.

## Safety

SAF-1: Products sold in stores require product certification.

SAF-2: The store allows users to return for defective products within 2 days from the date of receipt.

SAF-3: On each product, there are ingredients written on so that customers can choose products that are suitable for their skin and avoid allergies.

## Availability Requirements

AVL-1: The System shall be available at least 98% of the time between 5:00 A.M. and midnight local time and at least 90% of the time between midnight and 5:00 A.M. local time, excluding scheduled maintenance windows.

## Robustness Requirements

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

# Internationalization and Localization Requirements

Order state chart

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# Search state chart

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