**Laptop**

**PROJECT**

Software Requirements Specification

Version  
 <Date>

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– Hanoi, Summer 2023 –

# **Revision History**

| **Date** | **Description** | **Author** | **Comments** |
| --- | --- | --- | --- |
| 16/5/2023 | Version 1 | Nguyễn Khang  Trần Ngọc  Lê Giang  Trịnh Hùng  Nam Khánh | <First Revision> |
| 12/6/2023 | Version 2 | Nguyễn Khang  Trần Ngọc  Lê Giang  Trịnh Hùng  Nam Khánh | <Next Revision> |
|  |  |  |  |
|  |  |  |  |

# **Document Approval**

The following Software Requirements Specification has been accepted and approved by the following:

| **Signature** | **Printed Name** | **Title** | **Date** |
| --- | --- | --- | --- |
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|  |  |  |  |

# **Table of content**

Revision History........................................................................................................................................ ii

Document Approval................................................................................................................................ ii

Table of content..................................................................................................................................... iii

1. Introduction........................................................................................................................................... 1

1.1 Overview................................................................................................................................................ 1

1.2 Purpose.................................................................................................................................................. 1

1.3 Scope...................................................................................................................................................... 1

1.4 Definitions, Acronyms, and Abbreviations............................................................................................ 2

2. General Description.............................................................................................................................. 2

2.1 Product Perspective.............................................................................................................................. 2

2.2 Product Functions................................................................................................................................ 2

2.3 User Characteristics.............................................................................................................................. 2

2.4 General Constraints.............................................................................................................................. 3

3. Specific Requirements.......................................................................................................................... 3

3.1 External Interface Requirements.......................................................................................................... 3

3.1.1 User Interfaces............................................................................................................................. 3

3.1.2 Hardware Interfaces.................................................................................................................... 3

3.1.3 Software Interfaces...................................................................................................................... 3

3.1.4 Communications Interfaces......................................................................................................... 3

3.2 Functional Requirements...................................................................................................................... 3

3.2.1 System Functional Overview....................................................................................................... 3

3.2.2 Create customer account............................................................................................................ 5

3.2.3 <<Feature Name 2>>................................................................................................................... 6

3.2.3 <<Feature Name 3>>................................................................................................................... 6

3.3 Use Cases................................................................................................................................................ 6

3.2.1 Use Case Overview....................................................................................................................... 7

3.2.2 Use Case Admin............................................................................................................................ 8

3.2.3 Use Case 3..................................................................................................................................... 8

3.2.4 Use Case 4..................................................................................................................................... 8

3.2.5 Use Case 5..................................................................................................................................... 8

3.4 Non-Functional Requirements.............................................................................................................. 8

3.4.1 Performance................................................................................................................................. 8

3.4.2 Availability.................................................................................................................................... 9

3.4.3 Security......................................................................................................................................... 9

3.5 Inverse Requirements............................................................................................................................ 9

3.6 Design Constraints................................................................................................................................ 9

3.7 Logical Database Requirements............................................................................................................ 9

3.8 Other Requirements.............................................................................................................................. 9

A. Appendices................................................................................................................................................ 9

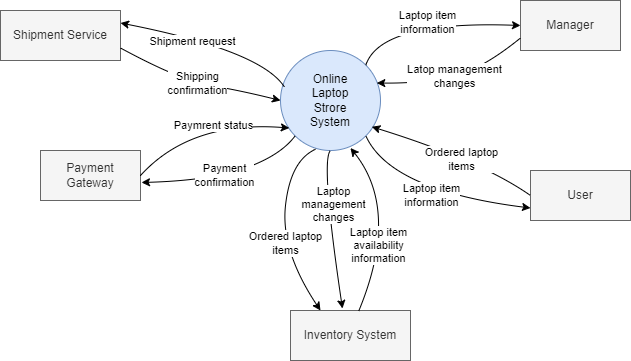
A.1 Business Rule......................................................................................................................................... 9

A.2 References........................................................................................................................................... 10

# **1. Introduction**

## **1.1 Overview**

The Online Laptop Store System is a new software system that replaces the current manual and telephone processes for purchasing laptops in current laptop stores. The context diagram below illustrates the external entities and system interfaces for release 1.0. The system is expected to evolve over several releases, ultimately connecting to the Internet ordering services and to credit and debit card authorization services.



## **1.2 Purpose**

The purpose of online laptop store project is to provide a platform for customers to browse, select, and purchase laptops from the comfort of their own homes. It serves as a digital storefront for selling laptops, showcasing a wide range of brands, models, and specifications to cater to different customer preferences and requirements.

## **1.3 Scope**

* [The](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [system](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/system) helps users [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) [view](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/view) [laptop](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/laptop) products, allowing users [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) [compare](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/compare) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [laptop](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/laptop) products [they](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/they) [want](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/want) [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) [learn](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/learn) [about](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/about).
* [The](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [website](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/website) [will](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/will) [provide](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/provide) [necessary](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/necessary) [information](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/information) [about](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/about) [laptop](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/laptop) products, [support](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/support) users [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) [buy](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/buy) [and](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/and) [pay](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/pay) [directly](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/directly) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [web](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/web).
* [The](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [website](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/website) helps [people](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/people) wishing [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) [buy](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/buy) laptops [can](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/can) [buy](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/buy) [quality](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/quality) [and](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/and) [reputable](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/reputable) products [at](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/at) [extremely](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/extremely) [reasonable](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/reasonable) prices.
* Coding conventions should follow Google Standards for Java, HTML/CSS, JavaScript.

## **1.4 Definitions, Acronyms, and Abbreviations(all)**

| SRS | Software Requirements Specifications |
| --- | --- |
| BR | Business Rule |
| UI | User Interface |
| N/A | Not applicable, not available |
| Use Case(s) | Diagram describe system requirements |

# **2. General Description**

## **2.1 Product Perspective**

*This subsection of the SRS puts the product into perspective with other related products or*

*projects. (Describe the context and origin of the product being specified in this SRS. For example, state whether this product is a follow-on member of a product family, a replacement for certain existing systems, or a new, self-contained product. If the SRS defines a component of a larger system, relate the requirements of the larger system to the functionality of this software and identify interfaces between the two. A simple diagram that shows the major components of the overall system, subsystem interconnections, and external interfaces can be helpful)*

The website is the first version released and will be improved with subsequent releases. Website allows users to search and view products right on the website without going to the store. It is important to be able to order products (laptop) and pay directly through the VnPay online payment application.

## **2.2 Product Functions(all)**

2.2.1 ADMIN

* Login
* Search Products
* Manager Product

2.2.2 USER

* Login, Register,Forgot
* Add To Cart
* Manager Customer
* Your Wishlist
* Pagination
* Show Product
* Search Product with Price
* Compare product

## **2.3 User Characteristics**

*This subsection of the SRS should describe those general characteristics of the eventual users of the product that will affect the specific requirements. For example: Identify the various user classes that you anticipate will use this product. User classes may be differentiated based on frequency of use, subset of product functions used, technical expertise, security or privilege levels, educational level, or experience. Describe the pertinent characteristics of each user class. Certain requirements may pertain only to certain user classes. Distinguish the most important user classes for this product from those who are less important to satisfy.*

( Viết lại )

Members administrators operating the system are users of the system. It is expecand ted that the participants have a basic understanding of websites and computers.

## **2.4 General Constraints**

*This subsection of the SRS should provide a general description of any other items that will*

*limit the developer’s options for designing the system. These might include: corporate or regulatory policies; hardware limitations (timing requirements, memory requirements); interfaces to other applications; specific technologies, tools, and databases to be used; parallel operations; language requirements; communications protocols; security considerations; design conventions or programming standards (for example, if the customer’s organisation will be responsible for maintaining the delivered software).*

- Technical Constraints:

* The website must be compatible with all major web browsers such as Google Chrome, Mozilla Firefox, Safari, etc.
* The website must have a responsive design that adapts to different screen sizes like desktops, laptops, tablets, and mobile devices.
* The website must use the latest versions of JSP, Java Servlet, and SQL database.

- Functional Constraints:

* The website must allow customers to browse and search for laptops by brand, price range, specifications, and other relevant categories.
* The website must allow customers to view the detailed product information including images, descriptions, reviews, and ratings.
* The website must provide a shopping cart system where customers can add and remove items, and checkout securely.

- Performance Constraints:

* The website must load quickly and respond to user inputs without any delays or glitches.
* The website must handle large amounts of traffic during peak hours without crashing or slowing down.
* The website must have a robust error-handling mechanism that prevents data loss or corruption.

- Design Constraints:

* The website must follow a consistent layout, colour scheme, and typography across all pages.
* The website must have clear navigation menus, buttons, and links that guide users to their desired actions.
* The website must have a professional and visually appealing design that enhances the credibility and trustworthiness of the brand.

- Legal and Regulatory Constraints:

* The website must comply with international laws regarding online sales, payment processing, privacy, and data protection.
* The website must include clear terms and conditions, refund policy, and contact information for customer support.
* The website must protect sensitive customer data such as credit card numbers, passwords, and personal information.

- Operational Constraints:

* The website must be easy to maintain and update by the developers, designers, and content managers.
* The website must have a backup and recovery system in case of data loss or server failure.
* The website must have a monitoring and reporting system that tracks user behaviour, sales performance, and website traffic.

# **3. Specific Requirements**

## **3.1 External Interface Requirements**

### **3.1.1 User Interfaces**

*<Describe the logical characteristics of each interface between the software product and the users. This may include sample screen images, any GUI standards or product family style guides that are to be followed, screen layout constraints, standard buttons and functions (e.g., help) that will appear on every screen, keyboard shortcuts, error message display standards, and so on. Define the software components for which a user interface is needed. Details of the user interface design should be documented in a separate user interface specification.>*

### **3.1.2 Hardware Interfaces**

· *No hardware interfaces have been identified.*

### **3.1.3 Software Interfaces**

-Integrated with VNpay

-Integrated with Facebook

-Integrated with Google

### **3.1.4 Communications Interfaces**

· The web browser will automatically log out if the user does not use the system within 10 seconds

## **3.2 Functional Requirements**

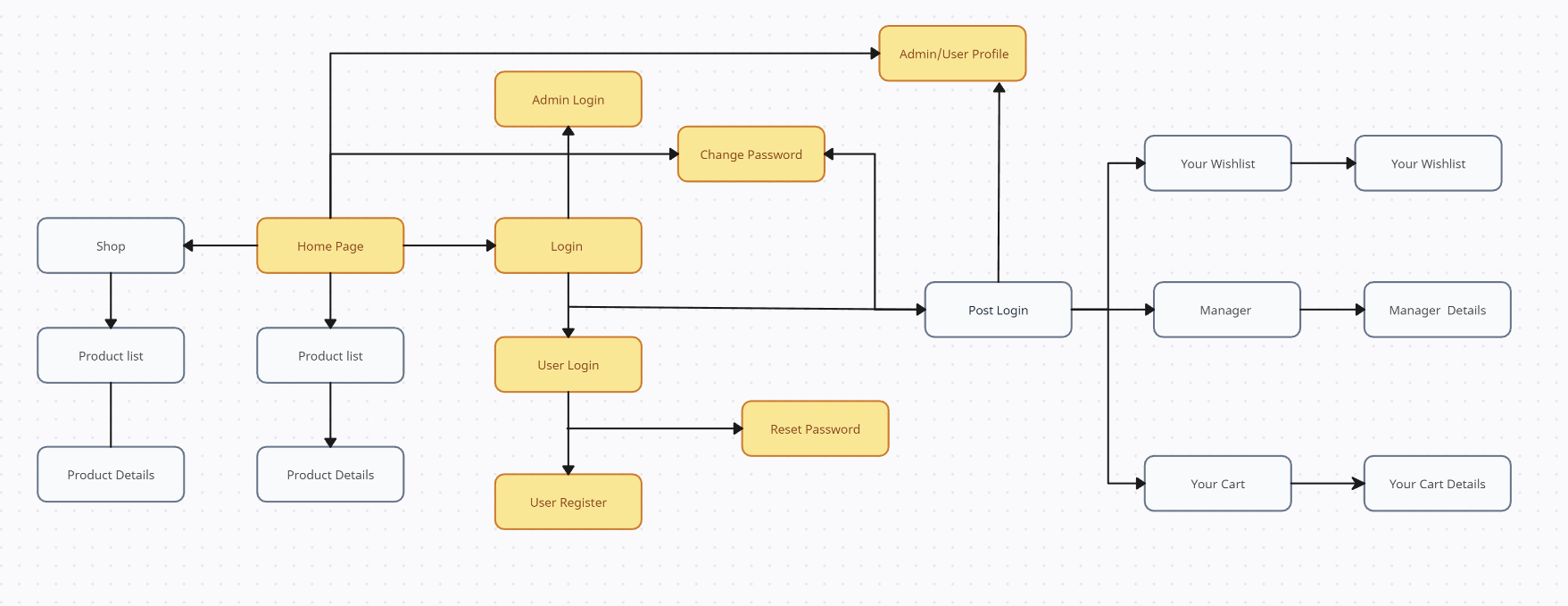
This section describes specific features of the software project. If desired, some requirements may be specified in the use-case format and listed in the Use Cases Section.

### **3.2.1 System Functional Overview**

*[Provide functionality overview of software system: screen flow, screen descriptions, system user roles, screen authorization, non-screen functions, ERD]*

#### **3.2.1.1 Screens Flow**

*[This part shows the system screens and the relationship among screens. You can draw the Screens Flow for the system in the form of diagram as below. Please note that beside the normal flat screen, we might have the oval notation for pop-up screen (Import Order) or a screen with multiple information tab (Order Details), etc. You may also use text or background format for different visuality purpose]*

**

#### **3.2.1.2 Screen Descriptions(all)**

*[Provide the descriptions for the screens in the Screens Flow above]*

| **#** | **Feature** | **Screen** | **Description** |
| --- | --- | --- | --- |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |

#### **3.2.1.3 Screen Authorization**

*[Provide the system roles authorization to the system features (down to screens, and event to the screen activities if applicable) in the table form as below – replace Role1, Role2,… with your specific system user role names]*

| **Screen** | **Role-Name1** | **Role-Name2** | **Role-Name3** | **…** |
| --- | --- | --- | --- | --- |
| <<Screen Name1>> | X |  | X | X |
| <<Screen Activity>> |  |  | X | X |
| <<Screen Name2>> | X |  | X |  |
| Query All Data | X |  |  |  |
| Query Own Data |  |  | X |  |
| Query Managed Data |  |  | X |  |
| Add New Data |  |  | X | X |
| Update All Data |  |  |  | X |
| Update Own Data |  |  |  | X |
| Update Managed Data |  |  |  | X |
| Delete Data |  |  |  |  |
| … |  |  |  |  |

#### **3.2.1.4 Non-Screen Functions**

*[Provide the descriptions for the non-screen system functions, i.e batch/cron job, service, API, etc.]*

| **#** | **Feature** | **System Function** | **Description** |
| --- | --- | --- | --- |
| 1 | <<Feature Name>> | <<Function Name1>> | <<Function Name1 Description>> |
| 2 | … |  |  |

#### **3.2.1.5 Entity Relationship Diagram**

*[Provide the entity relationship diagram and the entity descriptions in the table format as below]*

#### **3.2.1.6 Entities Description**

| **#** | **Entity** | **Description** |
| --- | --- | --- |
| 1 | User |  |
| 2 | Meal |  |
| 3 | Meal Subscription |  |
| 4 | … |  |

### **3.2.2 Add new product**

| UC ID and Name: | Add new Product | | |
| --- | --- | --- | --- |
| Created By: | NgocTV | Date Created: | 20/05/2023 |
| Primary Actor: | Admin | Other  Actors: | Staff |
| Trigger: | Actor clicks add products under new product category on database | | |
| Description: | Actor maybe the product is of a new type in the database | | |
| Precon   | Other Information: | N/A | | | | --- | --- | --- | --- | | Assumptions: | N/A | | |   ditions: | Successfully logged in admin account & clicks button add new products | | |
| Postconditions: | Product after successfully added and displayed on the product list | | |
| Normal Flow: | 1. Click button “Add new product” in screen product manager  2. Software: Display a screen containing information fields of the product  + Fields of the product  + Button “Save”  3. Actor fills in product information in display fields then click button “Save”  4. Software: Add a new product type and the product entered into the database, then the message is successful | | |
| Alternative Flows: | N/A | | |
| Exceptions: | 4a. If you do not enter enough information of the product, it will not be added to the database and error message | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
|  |  | | |
|  |  | | |

### **3.2.3 Add old product**

| UC ID and Name: | Add Old Product | | |
| --- | --- | --- | --- |
| Created By: | NgocTV | Date Created: | 20/05/2023 |
| Primary Actor: | Admin | Other  Actors: | Staff |
| Trigger: | Actor clicks add products under old product category on database | | |
| Description: | Actor maybe the product is of a old type in the database | | |
| Preconditions: | Successfully logged in admin account & clicks button add new products | | |
| Postconditions: | Product after successfully added and displayed on the product list | | |
| Normal Flow: | 1. Click button “Add old product” in screen product manager  2. Software: Display a screen containing information fields of the product  + Fields of the product  + Button “Save”, “Choose supplier” and “Choose product”  3. Actor click the "Choose supplier" and "Choose product" buttons to select the supplier name and the product type already exists  4. Software: Display information by supplier and selected actor product type  5. Actor fills in the product information fields according to the displayed type and clicks the "Save" button  6. Software: Add a new product type and the product entered into the database, then the message is successful | | |
| Alternative Flows: | N/A | | |
| Exceptions: | 6a. If you do not enter enough information of the product, it will not be added to the database and error message | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### **3.2.3 Update Product**

| UC ID and Name: | Update Product | | |
| --- | --- | --- | --- |
| Created By: | NgocTV | Date Created: | 20/05/2023 |
| Primary Actor: | Admin | Other  Actors: | Staff |
| Trigger: | Actor clicks update product on database | | |
| Description: | Actor can change the information of a product in the displayed product list | | |
| Preconditions: | Successfully logged in admin account & clicks button add new products | | |
| Postconditions: | Product after successfully updated and displayed on the product list | | |
| Normal Flow: | 1. Click button “ Update” in each product in the product list  2. Software: Display a screen containing information fields of the product and information of the selected product  + Fields of the product and information of product  + Button “Update”  3. Actor changes the product information to be changed and clicks the update button  4. Software: Update product changes in the database, then the message is successful | | |
| Alternative Flows: | N/A | | |
| Exceptions: | 4aUpdate product changes in the database, it will not be updated to the database and error message | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### **3.2.4 Search product in Screen product manager**

| UC ID and Name: | Search Product Admin | | |
| --- | --- | --- | --- |
| Created By: | NgocTV | Date Created: | 20/05/2023 |
| Primary Actor: | Admin | Other  Actors: | Staff |
| Trigger: | Actor clicks to find products by name | | |
| Description: | Actor can search products by name and display on screen | | |
| Preconditions: | Successfully logged in admin account & clicks search | | |
| Postconditions: | Product after successfully search and show search products | | |
| Normal Flow: | 1. Actor enters keywords in the search bar on admin screen  2. Software: Provide search suggestions by user keywords  3. Actor clicks "Search" button or suggestions are given  4. Search for products by keyword in the database and display it on the screen | | |
| Alternative Flows: | N/A | | |
| Exceptions: | 4a. If you can't find a product by keyword, notice no product | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

## 

### **3.2.5 Update Profile**

| UC ID and Name: | Update Profile | | |
| --- | --- | --- | --- |
| Created By: | NgocTV | Date Created: | 20/05/2023 |
| Primary Actor: | Admin, Customer | Other  Actors: | Staff |
| Trigger: | Actor clicks add products under new product category on database | | |
| Description: | Actor maybe the product is of a new type in the database | | |
| Preconditions: | Successfully logged in admin account & clicks button add new products | | |
| Postconditions: | Product after successfully added and displayed on the product list | | |
| Normal Flow: | 1. Click button “Add new product” in screen product manager  2. Software: Display a screen containing information fields of the product  + Fields of the product  + Button “Save”  3. Actor fills in product information in display fields then click button “Save”  4. Software: Add a new product type and the product entered into the database, then the message is successful | | |
| Alternative Flows: | N/A | | |
| Exceptions: | 4a. If you do not enter enough information of the product, it will not be added to the database and error message | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### **3.2.6 Register**

| UC ID and Name: | Register | | |
| --- | --- | --- | --- |
| Created By: | HungTH | Date Created: | 01/06/2023 |
| Primary Actor: | Customer | Other  Actors: | Staff |
| Trigger: | Actor clicks add products under new product category on database | | |
| Description: | Actor maybe the product is of a new type in the database | | |
| Preconditions: | 1.Users are required [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) [enter](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/enter) [all](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/all) required [web](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/web) [information](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/information)  2.[The](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [information](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/information) [must](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/must) [be](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/be) [in](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/in) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [correct](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/correct) [format](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/format) [and](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/and) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [account](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/account) exists  3.Click button “Sign up” | | |
| Postconditions: | [Display](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/display) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) homepage [of](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/of) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [shop](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/shop) [when](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/when) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [user](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/user) [successfully](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/successfully) signs [up](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/up) | | |
| Normal Flow: | 1. Click button “Sign Up” in screen Login  2. Software: Displays [a](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/a) [screen](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/screen) containing [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [information](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/information) fields [that](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/that) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [user](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/user) needs [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) [enter](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/enter)  + Fields of the account  + Button “Sign Up”  3. User fills in account information in display fields then click button “Sign Up”  4. Software: [Check](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/check) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [account](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/account), [if](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/if) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) conditions are [met](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/meet), [create](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/create) [a](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/a) [new](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/new) [account](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/account) [and](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/and) [display](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/display) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [home](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/home) [page](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/page)  + [Check](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/check) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [condition](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/condition) [of](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/of) [input](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/input) fields  + Check [account](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/account) exists | | |
| Alternative Flows: | N/A | | |
| Exceptions: | 1. [If](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/if) [you](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/you) don'[t](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/t) [enter](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/enter) [enough](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/enough) [account](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/account) [information](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/information), [you](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/you)'ll [report](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/report) an [error](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/error) 2. [If](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/if) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [account](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/account) [already](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/already) exists, an [error](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/error) [will](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/will) [be](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/be) reported | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### **3.2.7 Login Google**

| UC ID and Name: | Login | | |
| --- | --- | --- | --- |
| Created By: | HungTH | Date Created: | 08/06/2023 |
| Primary Actor: | Customer | Other  Actors: | Staff |
| Trigger: | User [click](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) login [with](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/with) GG | | |
| Description: | User [can](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/can) [log](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/log) [in](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/in) [without](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/without) creating [a](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/a) [new](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/new) [account](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/account) | | |
| Preconditions: | 1.Users [must](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/must) [have](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/have) [a](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/a) google [account](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/account)  2.Users [must](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/must) [click](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [button](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/button) [with](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/with) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) Google [icon](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/icon) | | |
| Postconditions: | Users [select](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/select) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) google [account](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/account) [they](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/they) [want](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/want) [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) login | | |
| Normal Flow: | 1. Click button icon Google in screen Login  2. Software: [Screen](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/screen) showing [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [user](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/user)'[s](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/s) Google accounts  3. User choose account Google  4. Software: [Check](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/check) [if](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/if) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [account](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/account) [already](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/already) exists.  + [If](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/if) [it](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/it) exists, [log](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/log) [in](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/in)  + [if](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/if) [it](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/it) does [not](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/not) [exist](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/exist), [create](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/create) [a](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/a) [new](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/new) [account](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/account) [in](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/in) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [database](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/database) [and](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/and) [then](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/then) login | | |
| Alternative Flows: | N/A | | |
| Exceptions: |  | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### **3.2.8 Login**

| UC ID and Name: | Login | | |
| --- | --- | --- | --- |
| Created By: | KhangNH | Date Created: | 23/5/2023 |
| Primary Actor: | Admin/Customer | Other  Actors: | Staff |
| Trigger: | Actor clicks to login Account is in database. | | |
| Description: | Actor can login to website after successful login. | | |
| Preconditions: | Actor clicks button login. | | |
| Postconditions: | After logging in, you can use the extended functions. | | |
| Normal Flow: | 1. From the home screen click on the login button.  2. Display the login screen:  +Username  +Password  3. Fill in the information and press the "SignIn" button.  4. Software: Check if the account exists and then return to the home page to use other functions. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | 4a. If the account does not exist, report an error and do not allow you to login to the site | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### **3.2.9 Forgot Password**

| UC ID and Name: | Forgot password | | |
| --- | --- | --- | --- |
| Created By: | KhangNH | Date Created: | 23/5/2023 |
| Primary Actor: | Admin/Customer | Other  Actors: | Staff |
| Trigger: | Actor clicks to forgot password . | | |
| Description: | Actor can change his account password | | |
| Preconditions: | Actor must have an account in the database | | |
| Postconditions: | After completion, the will change the password | | |
| Normal Flow: | 1. From the login screen press the button Forgot password  2. Display the Forgot password screen:  +Email  3. Fill in the information and press the "Send Code" button.  4. Software: Will send the code to the user's email and go to the code input screen.  5.After entering, you will go to the Forgot password screen:  +Username.  +NewPassWord (1)  +RePassWord (2)  6.Software: Will check if entered password (1) and (2) are the same and will go to login screen | | |
| Alternative Flows: | N/A | | |
| Exceptions: | 4a. The email does not exist, there will be no code to change the password.  6a. New password and re-entering a password that does not match will not be able to change the password. | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### **3.2.10 Checkout**

| UC ID and Name: | Checkout Product | | |
| --- | --- | --- | --- |
| Created By: | NgocTV | Date Created: | 15/06/2023 |
| Primary Actor: | Customer | Other  Actors: |  |
| Trigger: | Actor clicks checkout to pay for the selected product | | |
| Description: | Actor can pay for selected products by payment method Vnpay | | |
| Preconditions: | Successfully login user account and select the product you want to buy, click the Checkout button | | |
| Postconditions: | After successful payment, the order information will be displayed and the order will be added to the database | | |
| Normal Flow: | 1. Select the product and click the “Checkout” button or the button with the buy icon  2. Software: Display of orders for payment   * Basic information of the product includes: price, product name, image, quantity. * Consignee information address, recipient's name, phone number, payment method and button "Payment"   3. Actor can change the delivery information and choose the appropriate payment method then click the button "Payment"  4. Software: Display payment information according to the payment method selected by the user.  5. Actor continues to pay according to the selected method  6. Display successful payment and order information, add orders to the database. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | 6a. If there is an error in the payment process the payment failed message and shows an error. | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### **3.2.11 Your Wishlist**

| UC ID and Name: | Your Wishlist | | |
| --- | --- | --- | --- |
| Created By: | HungTH | Date Created: | 12/06/2023 |
| Primary Actor: | Customer | Other  Actors: | Staff |
| Trigger: | Users [click](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) wishlist [icon](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/icon) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [product](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/product) | | |
| Description: | Users [can](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/can) [add](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/add) [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) wishlist [list](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/list) [after](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/after) clicking | | |
| Preconditions: | 1.User must have account  2.Users are required [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) [log](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/log) [in](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/in) [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) [their](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/their) [account](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/account) | | |
| Postconditions: | [The](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [user](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/user) selects [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [product](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/product) [he](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/he) wants | | |
| Normal Flow: | 1. [Click](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) wishlist [button](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/button) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [product](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/product)  2. Software: [Show](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/show) wishlisted products [in](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/in) [Your](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/your) WishList  3. Software: [If](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/if) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [Product](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/product) is [already](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/already) listed, [there](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/there) is [no](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/no) [need](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/need) [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) [add](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/add) [it](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/it)  4. Users [click](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) "[X](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/x)" [next](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/next) [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [product](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/product) [in](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/in) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [Your](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/your) Wishlist [section](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/section)  5. Software: [Remove](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/remove) [a](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/a) [product](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/product) [from](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/from) [your](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/your) Your Wishlist | | |
| Alternative Flows: | N/A | | |
| Exceptions: |  | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### 

### 

### **3.2.12 Add Product to Cart**

| UC ID and Name: | Add Product to Cart | | |
| --- | --- | --- | --- |
| Created By: | Khanh | Date Created: | 20/05/2023 |
| Primary Actor: | Customer | Other  Actors: |  |
| Trigger: | Actor [click](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) “ADD TO CART” button on the product widget | | |
| Description: | Actor [can](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/can) [add](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/add) product into cart after clicking | | |
| Preconditions: | 1.User must have account  2.Users are required [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) [log](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/log) [in](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/in) [to](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/to) [their](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/their) [account](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/account) | | |
| Postconditions: | Product is successfully added to the cart. The updated cart is stored into the session. | | |
| Normal Flow: | 1. C[lick](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) “ADD TO CART” button on the product widget  2. Software: If the Product has not existed in the cart yet, add new product with the quantity of 1  3. Software: [If](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/if) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) [Product](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/product) is [already](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/already) existed in the cart, increase its quantity in cart by 1  4. Software: Update the cart then store into session’s cart | | |
| Alternative Flows: | N/A | | |
| Exceptions: |  | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### 

### **3.2.13 Your Cart**

| UC ID and Name: | Your Cart | | |
| --- | --- | --- | --- |
| Created By: | GiangLH, Khanh | Date Created: | 20/05/2023 |
| Primary Actor: | Customer | Other  Actors: |  |
| Trigger: | Actor [click](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) “Your Cart” icon on the main header | | |
| Description: | Actor can quick view their cart after clicking | | |
| Preconditions: |  | | |
| Postconditions: | The quick view dropdown of actor’s cart will be shown | | |
| Normal Flow: | 1. C[lick](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) “Your Cart” icon on the main header  2. Software: Show the quick view dropdown of actor’s cart  3. Software: [If](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/if) there are no product in the cart, the notification “Your cart is empty!” will be displayed  4. Click on the “X” button next to the product image  5. Software: Delete the product from cart  6. Click on the “View Cart” button at the end of the cart dropdown  7. Software: Redirect to View Cart  8. Click on the “Checkout” button at the end of the cart dropdown  9. Software: Checkout all the current product in the cart | | |
| Alternative Flows: | N/A | | |
| Exceptions: |  | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### **3.2.14 View Cart**

| UC ID and Name: | View Cart | | |
| --- | --- | --- | --- |
| Created By: | GiangLH | Date Created: | 20/05/2023 |
| Primary Actor: | Customer | Other  Actors: |  |
| Trigger: | Actor [click](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) [the](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/the) “View Cart” button at the and of the “Your Cart” dropdown | | |
| Description: | Actor can view their cart in detail | | |
| Preconditions: |  | | |
| Postconditions: | The Cart Detail page will be shown | | |
| Normal Flow: | 1. Click on the “View Cart” button at the end of “Your Cart” dropdown  2. Software: Show the Cart Detail page  3. Software: [If](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/if) there are no product in the cart, the notification “Your cart is empty!” and “Go Shopping”, which references to home page, will be displayed  4. Software: [If](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/if) there are products in the cart, the products’ detail will be shown in a table  5. Click on “Delete” in the action column of the product row  5. Software: Delete the product from cart  6. Change the number input in the quantity column of product row  7. Software: Change the product’s quantity in cart  8. Select/unselect the checkbox at the head of product row  9. Software: Select/unselect the product for checkout  8. Click on the “Checkout” button at the end of the table  9. Software: Checkout the selected product in the cart  8. Click on the “Delete All” button at the end of the table  9. Software: Delete all the product from the cart | | |
| Alternative Flows: | N/A | | |
| Exceptions: |  | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### **3.2.15 Shop**

| UC ID and Name: | Shop | | |
| --- | --- | --- | --- |
| Created By: | GiangLH | Date Created: | 12/06/2023 |
| Primary Actor: | Customer | Other  Actors: |  |
| Trigger: | Actor [click](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) “Shop now” at the home page | | |
| Description: | Actor can view all available products in pages | | |
| Preconditions: |  | | |
| Postconditions: | All available products will be shown in pages | | |
| Normal Flow: | 1. C[lick](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) “Shop now” at the home page  2. Software: Show all the products in pages | | |
| Alternative Flows: | N/A | | |
| Exceptions: |  | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### **3.2.16 View Product Detail**

| UC ID and Name: | View Product Detail | | |
| --- | --- | --- | --- |
| Created By: | GiangLH | Date Created: | 12/06/2023 |
| Primary Actor: | Customer | Other  Actors: |  |
| Trigger: | Actor [click](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) the product name | | |
| Description: | Actor can view the details of the product | | |
| Preconditions: |  | | |
| Postconditions: | The product’s detail page will be shown | | |
| Normal Flow: | 1. C[lick](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) the product name  2. Software: Show the product’s details | | |
| Alternative Flows: | N/A | | |
| Exceptions: |  | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### **3.2.16 Submit Review**

| UC ID and Name: | Submit Review | | |
| --- | --- | --- | --- |
| Created By: | GiangLH | Date Created: | 17/06/2023 |
| Primary Actor: | Customer | Other  Actors: |  |
| Trigger: | Actor [click](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) “Submit” button at the end of the form in the “Reviews” tab of product detail page | | |
| Description: | Actor can submit their review about the product | | |
| Preconditions: | Actor must input their name, email, review and select the rating | | |
| Postconditions: | Actor’s review is saved into the database | | |
| Normal Flow: | 1. Input name,email, review. Select rating  2. C[lick](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) “Submit” button  3. Software: Receive name, email, review, rating input and save the review into database | | |
| Alternative Flows: | N/A | | |
| Exceptions: | 1. If one or more input fields is empty, the “Fields cannot be empty” notification is displayed. 2. If the email input does not have “@” , the “Please include an “@” in the email address” notification is displayed. | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### **3.2.17 Compare**

| UC ID and Name: | Compare | | |
| --- | --- | --- | --- |
| Created By: | KhangNH | Date Created: | 23/5/2023 |
| Primary Actor: | Admin/Customer | Other  Actors: | Staff |
| Trigger: | Actor clicks to compare product. | | |
| Description: | Actor can compare products | | |
| Preconditions: | Actor must go to shop's page | | |
| Postconditions: | After completion, will show customers a comparison between products. | | |
| Normal Flow: | 1. From the home screen click on the compare button.  2. Display the compare screen:    3. Find 1 more product to compare on the search bar  4. Software: There will be a comparison table between the two products. | | |
| Alternative Flows: | N/A | | |
| Exceptions: |  | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

### **3.2.18 List product by price and brand**

| UC ID and Name: | List product by price and brand | | |
| --- | --- | --- | --- |
| Created By: | KhanhDN | Date Created: | 12/06/2023 |
| Primary Actor: | Admin/Customer | Other  Actors: | Staff |
| Trigger: | Actor clicks to choose price range and brand they want | | |
| Description: | Actor can see a list of products they want | | |
| Preconditions: | Actor must go to shop's page | | |
| Postconditions: | After completion, will show a list of products with the price range and brand they choose | | |
| Normal Flow: | 1. C[lick](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/click) [on](https://dictionary.cambridge.org/vi/dictionary/english-vietnamese/on) “Shop now” at the home page.  2. Choose price range  3. Choose brand  4. Software: Show a list of products with the price range and brand they choose | | |
| Alternative Flows: | N/A | | |
| Exceptions: |  | | |
| Priority: | Normal | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

## **3.3 Use Cases**

*[A use case (UC) describes a sequence of interactions between a system and an external actor that results in the actor being able to achieve some outcome of value. The names of use cases are always written in the form of a verb followed by an object. Select strong, descriptive names to make it evident from the name that the use case will deliver something valuable for some user]*

**Actor(s)**

[An actor is a person (or sometimes another software system or a hardware device) that interacts with the system to perform a use case. Following are some questions you might ask to help user representatives identify actors

· *Who (or what) is notified when something occurs within the system?*

· *Who (or what) provides information or services to the system?*

· *Who (or what) helps the system respond to and complete a task?*

This part gives the description of system actors, you can follow the table form as below]

| **#** | **Actor** | **Description** |
| --- | --- | --- |
| 1 |  |  |
| 2 |  |  |
| 3 | … |  |

**Diagram(s)**

*[Provide the UC diagram(s) to show the actor-UCs and UC-UC relationships like the sample below. You can have multiple UC diagrams for the system]*

### **3.2.1 Use Case Overview**

### **3.2.2 Use Case Admin**

### **3.2.3 Use Case 3**

### **3.2.4 Use Case 4**

### **3.2.5 Use Case 5**

## **3.4 Non-Functional Requirements**

Non-functional requirements may exist for the following attributes. Often these requirements must be achieved at a system-wide level rather than at a unit level. State the requirements in the following sections in measurable terms (e.g., 95% of transaction shall be processed in less than a second, system downtime may not exceed 1 minute per day, > 30 day MTBF value, etc).

### **3.4.1 Performance**

<If there are performance requirements for the product under various circumstances, state them here and explain their rationale, to help the developers understand the intent and make suitable design choices. Specify the timing relationships for real time systems. Make such requirements as specific as possible. You may need to state performance requirements for individual functional requirements or features.>

* Page loading speed: Website should be optimized to load quickly and display content in a short time. Page load time is important to maintain user interest and improve their experience.
* Responsive: Website should be responsive on different devices and screens, including desktops, mobile phones and tablets. This ensures that users can conveniently access and use the website from any device.
* User interaction: The website needs to provide a user-friendly and easy-to-use interface. Interactive functions such as contact forms, search boxes, and other interactive elements should work smoothly and respond quickly.
* Security: Security is an important factor to ensure the safety of users and their data. Websites should have security measures in place, such as data encryption, SSL certificates, and attack prevention measures.
* Search Engine Optimization (SEO): Website needs to be optimized to show up high on search engine results. This ensures that the website can be found easily and attracts traffic from interested users.
* Content management: Websites should provide an easy-to-use content management system that allows administrators to conveniently update and change content. This allows the website to stay up-to-date and provide the latest information to users.

### **3.4.2 Availability**

### **3.4.3 Security**

Each user can only use functions and access data according to that user's access rights

## **3.6 Design Constraints**

Specify design constrains imposed by other standards, company policies, hardware limitation, etc. that will impact this software project.

## **3.7 Logical Database Requirements**

Will a database be used? If so, what logical requirements exist for data formats, storage capabilities, data retention, data integrity, etc

## **3.8 Other Requirements**

Catchall section for any additional requirements.

# **A. Appendices**

## **A.1 Business Rule**

· BR-01 Full name must be 1-50 characters and contain no special characters.

· BR-02 Users can only access information that belongs to them, except administrator.

· BR-03 Content manager only signs in with the account provided by the administrator.

· BR-04 Each user has exactly one role.

· BR-05 Each email is only registered for an account.

· BR-06 Email must be in the correct format: “abc123@gmail.com”.

· BR-07 Username must be unique.

· BR-08 Username does not contain spaces and special characters.

· BR-09 The length of the username must be between 4-20 characters.

· BR-10 Password must be encrypted.

· BR-11 Password length must be between 4-20 characters and contain no spaces.

· BR-12 When changing the password, the user must enter the old password.

· BR-13 Phone can only contain 10 digits and start with 0.

· BR-14 Date of birth must be before current time.

· BR-15 All managed lists must be displayed with pagination.

· BR-16 Fields marked with an asterisk (\*) cannot be left blank.

· BR-17 When reset the password, the user must enter the email so that system can send verify code.

· BR-18 When register account, the user must enter the password twice.

## **A.2 References**

· IEEE Recommended Practice for Software Requirements Specifications," in IEEE Std 830-1998, vol., no., pp.1-40, 20 Oct. 1998

· IEEE Guide for Developing System Requirements Specifications," in IEEE Std 1233-1996, vol., no., pp.1-30, 22 Dec. 1996.