

**E-commerce Web Application  
Use-Case Specification**

**Version <2.0>**

E-commerce Web Application	Version: <1.0>
Use-Case Specification: <Use-Case Name>	Date: 15/11/2020

## Revision History

Date	Version	Description	Author
15/11/2020	1.0		Huỳnh Nhật Nam, Nguyễn Phúc Thịnh
8/12/2020	2.0	Edit usecase (from go shopping to view product, merge manage product to global use-case model), add view order history, edit profile and add specification for Edited usecase	Nguyễn Phúc Thịnh

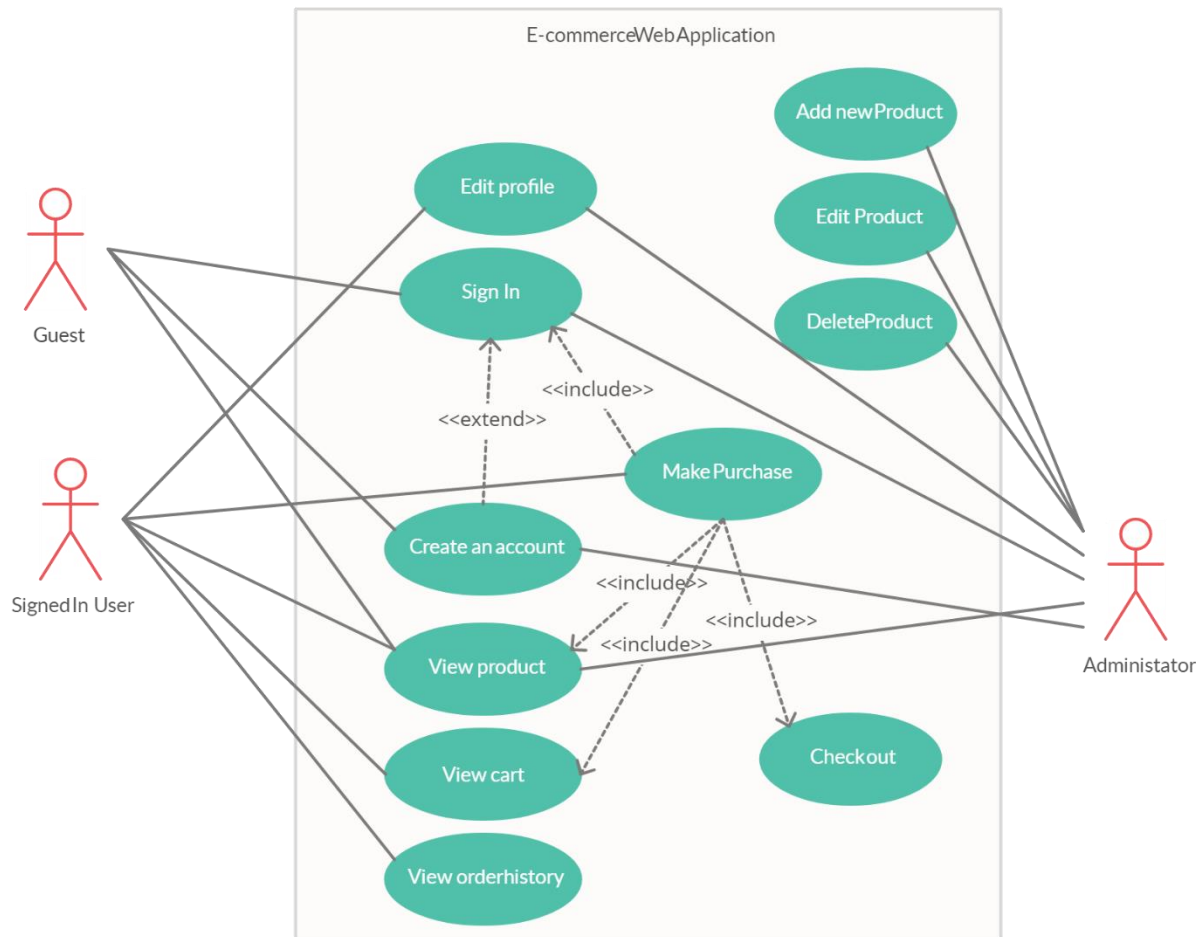
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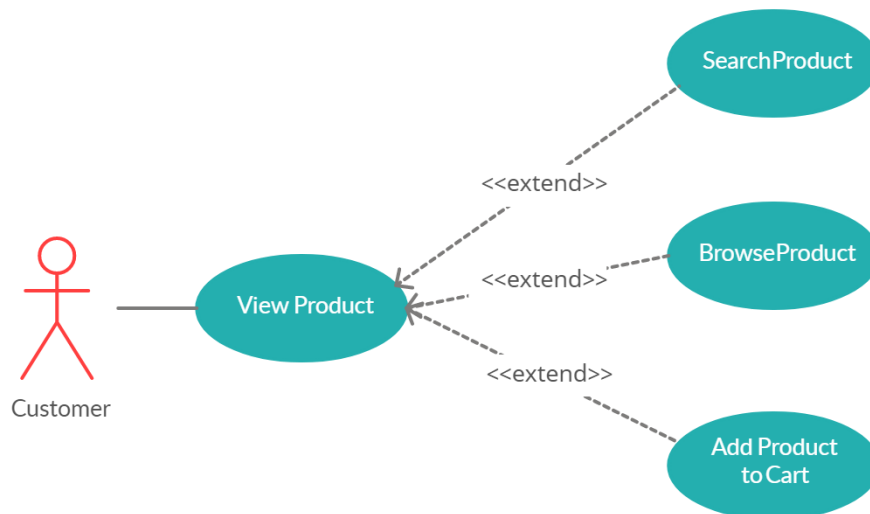
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## 1. Use-case Model

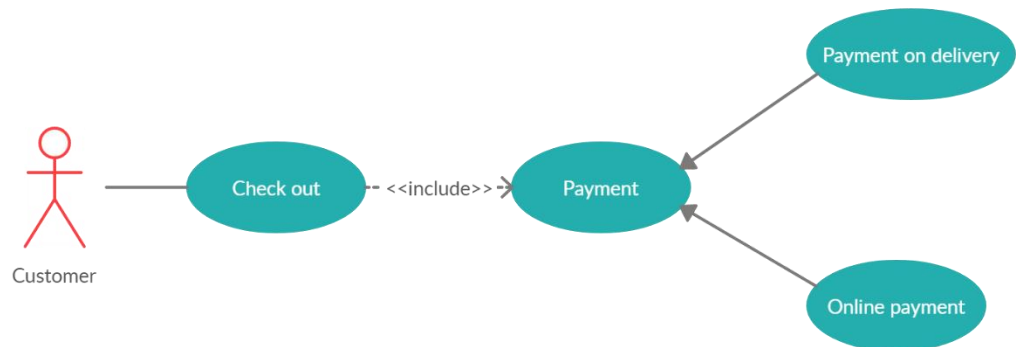


- View product model:

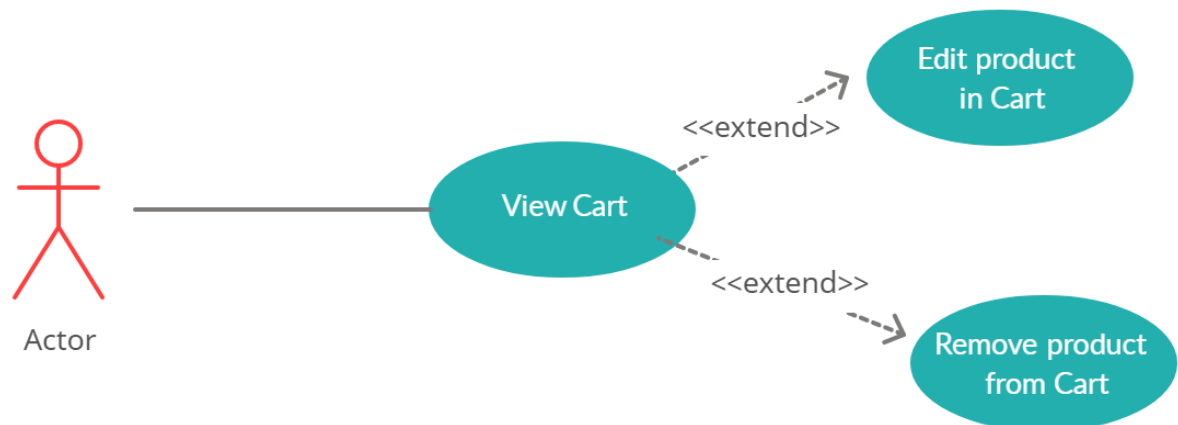


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- Check Out model:



- View Cart model:



## 2. Use-case Specifications

### 2.1 Use-case: Sign in

Use case Name	Sign in
Brief description	This use case describes how a user can sign in
Actors	Guest, Administrator
Basic Flow	<ol style="list-style-type: none"> <li>1. User enters username and password</li> <li>2. Return to homepage if user signed in successfully</li> </ol>
Alternative Flows	<b>Alternative flow 1: User enters wrong password</b>

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	<ol style="list-style-type: none"> <li>1. System displays an error message</li> <li>2. Continue step #1 of basic flow</li> </ol> <p><b>Alternative flow 2: User enters non-existent username</b></p> <ol style="list-style-type: none"> <li>1. System displays an error message</li> <li>2. Continue step #1 of basic flow</li> </ol>
Pre-conditions	<p>User goes to login page through 1 of 3 ways:</p> <ul style="list-style-type: none"> <li>- Click on sign in button at the top right of the home page</li> <li>- User is not signed in and clicks on view cart button at the top right of the home page</li> <li>- User is not signed in and adds a product to cart</li> </ul>
Post-conditions	Guest successfully signs in and return to homepage

## 2.2 Use-case: Edit profile

Use case Name	Edit profile
Brief description	This use case describes how a user can edit their profile information
Actors	Signed-in user, Administrator
Basic Flow	<ol style="list-style-type: none"> <li>1. User choose my-profile in navigation bar</li> <li>2. User choose edit profile in my-profile page</li> <li>3. User choose and edit their information they want</li> <li>4. User click on save button</li> <li>5. System comeback to my-profile page</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: User enters invalid type of information</b></p> <ol style="list-style-type: none"> <li>1. System displays an error message</li> <li>2. Continue step #3 of basic flow</li> </ol> <p><b>Alternative flow 2: Blank on any line</b></p> <ol style="list-style-type: none"> <li>1. System displays an error message</li> <li>2. Continue step #3 of basic flow</li> </ol>
Pre-conditions	User signed-in system with their account
Post-conditions	User successfully edit their information and return to my-profile page

## 2.3 Use-case: Create an account

Use case Name	Create an account
Brief description	This use case describes how a user can create an account
Actors	Guest, administrator
Basic Flow	<ol style="list-style-type: none"> <li>1. At sign in page, user clicks on sign up button.</li> <li>2. User goes to sign up page.</li> <li>3. User enters account's name</li> <li>4. User enters password</li> </ol>

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	<ol style="list-style-type: none"> <li>5. User enters password again</li> <li>6. User clicks sign up</li> <li>7. Goes back to sign in page</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: User enters username that's already taken</b></p> <ol style="list-style-type: none"> <li>1. From #6 of the basic flow, system displays error message</li> <li>2. Continue from step #3.</li> </ol> <p><b>Alternative flow 2: User re-enters wrong password</b></p> <ol style="list-style-type: none"> <li>1. From #6 of the basic flow, system displays error message</li> <li>2. Continue from step #5.</li> </ol>
Pre-conditions	User goes to login page and clicks sign up button
Post-conditions	User successfully signs up and returns to sign in page

#### 2.4 Use-case: Make purchase

Use case Name	Make purchase
Brief description	This use case describes how a user can make a purchase
Actors	Signed in customer
Basic Flow	<ol style="list-style-type: none"> <li>1. At homepage, user goes to their cart by clicking on cart button</li> <li>2. User click on purchase button</li> <li>3. User click on checkout button.</li> <li>4. User check their information again</li> <li>5. User click on confirm button</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: User's shopping cart is empty</b></p> <ol style="list-style-type: none"> <li>1. From #3 of the basic flow, system display error message</li> <li>2. System goes to homepage</li> </ol> <p><b>Alternative flow 2: User information is wrong</b></p> <ol style="list-style-type: none"> <li>1. From #4 of the basic flow, user re-enter their information</li> <li>2. Continue step #5</li> </ol>
Pre-conditions	User goes to homepage User has product in shopping-cart User has correctly information in profile
Post-conditions	User successfully make a purchase and waiting for an email to confirm

#### 2.5 Use-case: View order history

Use case Name	View order history
Brief description	This use case describes how a user can view details about their order history
Actors	Signed in user
Basic Flow	<ol style="list-style-type: none"> <li>1. User goes to homepage</li> </ol>

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	<ol style="list-style-type: none"> <li>User clicks on my-profile</li> <li>User choose order history on my-profile page</li> <li>System show order history</li> </ol>
Alternative Flows	<b>Alternative flow 1: User don't have any order before</b> <ol style="list-style-type: none"> <li>From #4 of the basic flow, system displays no order to show</li> <li>System comeback to my-profile page</li> </ol>
Pre-conditions	User signed in succesfully User go on my-profile page
Post-conditions	User view order history

## 2.6 Use-case: View product

Use case Name	View product
Brief description	This use case describes how a user can view details about product
Actors	Guest, administrator, signed in user
Basic Flow	<ol style="list-style-type: none"> <li>User goes to homepage</li> <li>User clicks on product</li> <li>System displays details of products</li> </ol>
Alternative Flows	<b>Alternative flow 1: User can't view the product details</b> <ol style="list-style-type: none"> <li>From #3 of the basic flow, system displays no details to show</li> <li>Continue step #2</li> </ol>
Pre-conditions	User goes to homepage
Post-conditions	User view a product's details information

## 2.7 Use-case: Search product

Use case Name	Search product
Brief description	This use case describes how a user can search a product by search bar
Actors	Guest, administrator, signed in user
Basic Flow	<ol style="list-style-type: none"> <li>User goes to homepage</li> <li>User clicks on search bar</li> <li>User enter a text</li> <li>System displays list of products according to the searching result</li> <li>User clicks on a product</li> <li>User goes to a page which displays that product's information</li> </ol>



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Alternative Flows	<b>Alternative flow 1: User can't not find the product</b> <ol style="list-style-type: none"> <li>From #4 of the basic flow, system displays no product is found</li> <li>Continue step #2</li> </ol>
Pre-conditions	User goes to homepage
Post-conditions	User view a product's information

## 2.8 Use-case: Browse product

Use case Name	Browse product
Brief description	This use case describes how a user can browse product
Actors	Guest, administrator, signed in user
Basic Flow	<ol style="list-style-type: none"> <li>User goes to homepage</li> <li>Using navigation bar, user can see types of product</li> <li>User clicks on a type on navigation bar</li> <li>System displays a list of products belongs to that specific type</li> <li>User clicks on a product</li> <li>System displays a page of that product's information</li> </ol>
Pre-conditions	User goes to homepage
Post-conditions	User views a product's information

## 2.9 Use-case: View cart

Use case Name	View cart
Brief description	This use case describes how a user can view his/her cart
Actors	Signed in user
Basic Flow	<ol style="list-style-type: none"> <li>User clicks on icon of the cart</li> <li>System displays user's cart (a page)</li> </ol>
Pre-conditions	<ul style="list-style-type: none"> <li>User goes to homepage</li> <li>User has already signed in</li> </ul>
Post-conditions	User views cart

## 2.10 Use-case: Edit product in cart

Use case Name	Edit product in cart
Brief description	This use case describes how a user can edit product in cart
Actors	Signed in user
Basic Flow	<ol style="list-style-type: none"> <li>User views cart</li> <li>User changes quantity of products</li> <li>User adds requirements to products</li> </ol>
Pre-conditions	- User goes to homepage

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	- User has already signed in.
Post-conditions	User changes product's quantity in cart or add requirements

### 2.11 Use-case: Remove product from cart

Use case Name	Remove product from cart
Brief description	This use case describes how a user can remove product from cart
Actors	Signed in user
Basic Flow	<ol style="list-style-type: none"> <li>1. User views cart</li> <li>2. User clicks on remove button of a product</li> </ol>
Pre-conditions	<ul style="list-style-type: none"> <li>- User goes to homepage</li> <li>- User has already signed in.</li> </ul>
Post-conditions	A product is removed from cart

### 2.12 Use-case: Add a product to cart

Use case Name	Add a product to cart
Brief description	This use case describes how a user can add a product to cart
Actors	Signed in user
Basic Flow	<ol style="list-style-type: none"> <li>1. User browses or searches a product</li> <li>2. At product's information page, user clicks on add to cart button</li> <li>3. System adds product to user's cart</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: Product is out of stock</b></p> <ol style="list-style-type: none"> <li>1. After step #2 of basic flow, system displays error message</li> <li>2. Continue from step #1.</li> </ol> <p><b>Alternative flow 2: Product is already in cart</b></p> <ol style="list-style-type: none"> <li>1. From step #3 of basic flow, system increases product's quantity in cart</li> </ol>
Pre-conditions	User goes to homepage User has already signed in
Post-conditions	User adds product to cart or increases product's quantity

### 2.13 Use-case: Payment

Use case Name	Add a product to cart
Brief description	This use case describes how a user can do a payment
Actors	Signed in customer
Basic Flow	<ol style="list-style-type: none"> <li>1. User goes to shopping cart</li> <li>2. User click on purchase button</li> </ol>

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	<ol style="list-style-type: none"> <li>3. User click on checkout button</li> <li>4. User choose payment methods</li> <li>5. User click on confirm button</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: User's shopping cart is empty</b></p> <ol style="list-style-type: none"> <li>1. From #2 of the basic flow, system display error message</li> <li>2. System goes to homepage</li> </ol> <p><b>Alternative flow 2: Payment methods is not available</b></p> <ol style="list-style-type: none"> <li>1. From step #4 of basic flow, system display error message</li> <li>2. Goes to #4</li> </ol>
Pre-conditions	<p>User goes to shopping cart</p> <p>User has already signed in</p> <p>User has already product in shopping cart</p>
Post-conditions	User successfully to pay for a purchase.

#### 2.14 Use-case: Payment on delivery

Use case Name	Payment on delivery
Brief description	This use case describes how a user can choose payment method is pay when receive product
Actors	Signed in customer
Basic Flow	<ol style="list-style-type: none"> <li>1. User goes to shopping cart</li> <li>2. User click on purchase button</li> <li>3. User click on checkout button</li> <li>4. User choose payment on delivery</li> <li>5. User click on confirm button</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: User's shopping cart is empty</b></p> <ol style="list-style-type: none"> <li>1. From #2 of the basic flow, system display error message</li> <li>2. System goes to homepage</li> </ol> <p><b>Alternative flow 2: Payment methods is not available</b></p> <ol style="list-style-type: none"> <li>1. From step #4 of basic flow, system display error message</li> <li>2. Goes to #4 and choose other payment methods</li> </ol>
Pre-conditions	<p>User goes to shopping cart</p> <p>User has already signed in</p> <p>User has already product in shopping cart</p>
Post-conditions	User successfully to pay for a purchase.

#### 2.15 Use-case: Payment online

Use case Name	Payment online
Brief description	This use case describes how a user can choose payment method is pay when

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	receive product
Actors	Signed in customer
Basic Flow	<ol style="list-style-type: none"> <li>1. User goes to shopping cart</li> <li>2. User click on purchase button</li> <li>3. User click on checkout button</li> <li>4. User choose payment online</li> <li>5. User click on confirm button</li> </ol>
Alternative Flows	<p><b>Alternative flow 1: User's shopping cart is empty</b></p> <ol style="list-style-type: none"> <li>1. From #2 of the basic flow, system display error message</li> <li>2. System goes to homepage</li> </ol> <p><b>Alternative flow 2: Payment methods is not available</b></p> <ol style="list-style-type: none"> <li>1. From step #4 of basic flow, system display error message</li> <li>2. Goes to #4 and choose other payment methods</li> </ol> <p><b>Alternative flow 3: Credit card not available</b></p> <ol style="list-style-type: none"> <li>1. From step #4 of basic flow, system display error message</li> <li>2. Goes to #4 and re-enter.</li> </ol>
Pre-conditions	User goes to shopping cart User has already signed in User has already product in shopping cart
Post-conditions	User successfully to pay for a purchase.

## 2.16 Use-case: Add new product

Use case Name	Add new product
Brief description	This use case describes how administrator can add new product
Actors	Administrator
Basic Flow	<ol style="list-style-type: none"> <li>1. At administrator page, admin clicks on add new product button</li> <li>2. System displays a new page</li> <li>3. Admin fills in product's information</li> <li>4. Admin clicks on add button</li> <li>5. System adds product to database</li> </ol>
Pre-conditions	Administrator signed in with admin account
Post-conditions	Admin adds new product to database

## 2.17 Use-case: Edit product

Use case Name	Edit product
Brief description	This use case describes how administrator can edit product's information
Actors	Administrator

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Basic Flow	<ol style="list-style-type: none"> <li>1. At administrator page, admin clicks on search button</li> <li>2. Admin enters products name</li> <li>3. System displays product's information</li> <li>4. Admin clicks on a field</li> <li>5. Admin changes its content</li> <li>6. Admin clicks OK</li> <li>7. System changes product's content in database</li> </ol>
Alternative Flows	<b>Alternative flow 1: Product don't exist in database</b> <ol style="list-style-type: none"> <li>1. From step #2 of basic flow, admin enters another term</li> <li>2. Continue to step #6.</li> </ol>
Pre-conditions	Administrator signed in with admin account
Post-conditions	Admin edits product's information in database

## 2.18 Use-case: Delete product

Use case Name	Delete product
Brief description	This use case describes how administrator can delete a product
Actors	Administrator
Basic Flow	<ol style="list-style-type: none"> <li>1. At administrator page, admin clicks on search button</li> <li>2. Admin enters products name</li> <li>3. System displays product's information</li> <li>4. Admin clicks on delete button</li> <li>5. Admin confirms</li> <li>6. Systems delete product in database</li> </ol>
Alternative Flows	<b>Alternative flow 1: Product don't exist in database</b> <ol style="list-style-type: none"> <li>1. From step #2 of basic flow, admin enters another term</li> <li>2. Continue to step #6.</li> </ol>
Pre-conditions	Administrator signed in with admin account
Post-conditions	Admin deletes a product in database