
Smoker Gang (id-01)

DiamondHand.Store
Use-Case Specification
Version <1.5>

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Revision History

Date	Version	Description	Author
16/11/2023	1.0	Use-Case Model, Use-case Specifications: login, register, search.	Nguyễn Xuân Quang Minh
16/11/2023	1.1	Use-Case Model, Use-case Specifications: login, register, search.	Bùi Vũ Thế Minh
16/11/2023	1.2	Use-case Specifications update product, delete product.	Đoàn Gia Phú
16/11/2023	1.3	Use-case Specifications add to cart, buy.	Mai Quý Đạt
16/11/2023	1.4	Use-case Specifications add to favorite, add product.	Đỗ Quốc Bảo
1/12/2023	1.5	Update Use-case model, Exceptional flow	Nguyễn Xuân Quang Minh, Bùi Vũ Thế Minh

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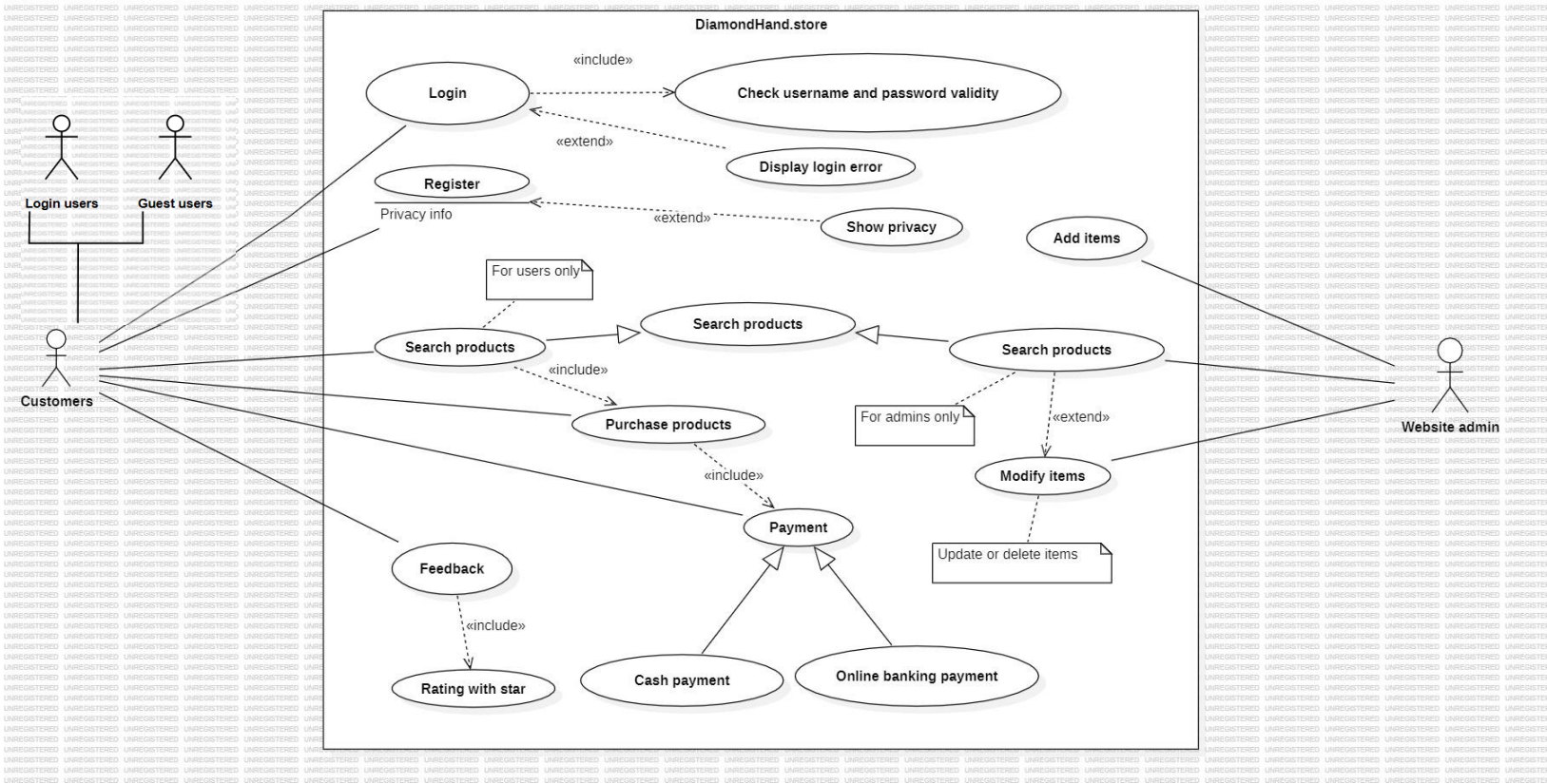
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Use-Case Specification of DiamondHand.store

1. Use-case Model



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2. Use-Case Specification

2.1 Use-case: Login

Use case Name	Login.
Brief description	Login using an account that are already registered.
Actors	User, Admin.
Basic Flow	<ol style="list-style-type: none"> 1. Access to the login page. 2. The system displays a login page. 3. Enter user name. 4. Enter password. 5. Users click the Login button. 6. System check if the username and password are valid. 7. Login successfully and return to the Home page.
Alternative Flows	<p>Alternative flow 1: Wrong Password or Username</p> <p>At step 6, if the username or password is not valid, the system will give a notification.</p> <p>Alternative flow 2: User hasn't had an account</p> <p>If users haven't had an account, they can go to the register page by clicking the Register button below the Login form.</p> <p>Alternative flow 3: User can use Keyboard instead of Mouse Clicking</p> <p>At step 5, instead of pressing the Login button, users can also press Enter.</p>
Exceptional Flow	<p>1. System Lockout Notification:</p> <ul style="list-style-type: none"> - If the user enters an incorrect password for the fifth consecutive time, the system triggers a lockout mechanism. - The system displays a notification informing the user that their account has been temporarily locked for security reasons. <p>2. Unlocking Process:</p>

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	<ul style="list-style-type: none"> - To unlock the account, the user needs to follow a specific procedure. - The system provides a link or button on the lockout notification that directs the user to a password recovery or account unlocking page. <p>3. Account Verification:</p> <ul style="list-style-type: none"> - On the unlocking page, the user is required to verify their identity. This may involve answering security questions, providing additional verification codes, or using other methods to ensure the rightful account owner is attempting the unlock.
Pre-conditions	The account has already been registered.
Post-conditions	<p>Display user name, enable user's page.</p> <p>Add cart to account.</p>
Non-functional	Users will be timed out if enter wrong password for 5 consecutive times

2.2 Use-case: Register

Use case Name	Register.
Brief description	Register an account to purchase, add favorite and rate products.
Actors	User.
Basic Flow	<ol style="list-style-type: none"> 1. Access to register page. 2. System display register page. 3. Enter email. 4. Enter username. 5. Enter password. 6. Re-enter password. 7. Click the register button or press Enter. 8. System check information. 9. Create an account and notify that account has been registered. 10. Return to the Login page.
Alternative Flows	Alternative flow 1: Wrong Input

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	<p>1. At Step 3, 4, 5, if the input's format is not valid system will notify why it's not valid.</p> <p>2. At Step 8, if the input of Re-enter password field is not the same as Password field system will notify the two passwords are not matched.</p> <p>Alternative flow 2: users have already had accounts</p> <p>If users have already had an account, they can go to the Login page by clicking on Login button below the Register form.</p> <p>Alternative flow 3: User can use Keyboard instead of Mouse Clicking</p> <p>At Step 3, 4, 5, users can press Tab to go to the below line instead of clicking on it.</p>
Exceptional Flow	<p>1. Username Verification:</p> <ul style="list-style-type: none"> - After the user enters their desired username at Step 4, the system checks whether the username is already registered. <p>2. Duplicate Username Notification:</p> <ul style="list-style-type: none"> - If the username is already taken, the system displays a notification informing the user that the chosen username is not available. - The notification provides suggestions for alternative usernames or prompts the user to choose a different one. <p>3. Reattempting Registration:</p> <ul style="list-style-type: none"> - After receiving the notification, the user can modify their chosen username and proceed with the registration process. - The system does not allow the registration to continue until a unique username is provided.
Pre-conditions	Users must have an email.
Post-conditions	Create an account for user.
Non-functional	Users will be timed out if they enter wrong email for 5 consecutive times.

2.3 Use-case: Search

Use case Name	Search.
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Brief description	Search for the product using its name.
Actors	User, Admin.
Basic Flow	<ol style="list-style-type: none"> 1. Click on Search bar 2. Enter the product's name 3. Click on the search icon on the search bar 4. System find all products that have name matched with the input 5. Go to Search page and display all the products
Alternative Flows	<p>Alternative flow 1: User can't click on the icon</p> <p>At Step 3, users can press Enter instead.</p> <p>Alternative flow 2: If the input is empty</p> <p>At Step 4, if the input is empty, the system will return all the products on the Web.</p> <p>Alternative flow 3: System can't find any product that have name matched with the input</p> <p>At Step 4, if there aren't any products that are suitable with the input system will display an image that informs the Web doesn't have that product.</p>
Exceptional Flow	<p>1. No Matching Products:</p> <ul style="list-style-type: none"> - After the user enters the product's name at Step 2 and the system searches for matching products at Step 4, if there are no products that match the input, the system identifies this scenario. <p>2. Display No Results Image:</p> <ul style="list-style-type: none"> - The system displays a visually informative image or message on the search results page indicating that there are no products matching the entered search criteria. - The message may encourage the user to refine their search or explore other categories.
Pre-conditions	The Web has products in the database.
Post-conditions	Go to the search page and display all the products that have the same name or have a part of the name matched with the input.

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Non-functional	Must be fast so users won't have to wait a long time for the search results
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2.4 Use-case: Add to favorite

Use case Name	Add to favorite.
Brief description	Add a product to user's favorite list.
Actors	User.
Basic Flow	<ol style="list-style-type: none"> 1. Click on the product's panel. 2. Click on the Heart icon after the price. 3. System adds the product to the user's favorite list. 4. The Heart icon's color changes.
Alternative Flows	<p>Alternative flow 1: User hasn't logged in</p> <p>At Step 2, if users haven't login system will open Login page</p> <p>Alternative flow 2: Product has already been in the cart</p> <p>At Step 2, if the product has already been added to favorite list it will be removed from the list</p>
Exceptional Flow	<p>1. User Not Logged In:</p> <ul style="list-style-type: none"> - At Step 2, if the system identifies that the user is not logged in, it redirects the user to the login page. <p>2. Login Page Navigation:</p> <ul style="list-style-type: none"> - The system automatically opens the login page, prompting the user to log in to their account. - Once the user successfully logs in, they are redirected back to the product page where they can proceed to add the product to their favorites.

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Pre-conditions	Users must login.
Post-conditions	The product is added to the user's favorite list.
Non-functional	Increase the amount of products in the user's favorite list if it is added.

2.5 Use-case: Add to Cart

Use case Name	Add to Cart.
Brief description	Add a product to cart for the users to purchase.
Actors	User.
Basic Flow	<ol style="list-style-type: none"> 1. Click on the product's panel 2. System open the product page 3. Click on one Add to Cart buttons 4. System update the number of products in Cart 5. System notify that the product has been added to Cart
Alternative Flows	<p>Alternative flow 1: Product is out of stock</p> <p>At Step 3, if the product is out of stock the buttons will not be able for user to click on.</p> <p>Alternative flow 2: Product has already been in the cart</p> <p>At Step 4, if the product has already been in the cart system will update the number of that product instead of adding a new item.</p>
Exceptional Flow	<p>1. Product Out of Stock:</p> <ul style="list-style-type: none"> - At Step 3, if the system detects that the product is out of stock, it disables the "Add to Cart" button. <p>2. User Notification:</p> <ul style="list-style-type: none"> - The system displays a notification to the user, informing them that the selected product is currently out of stock.

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	- The user is encouraged to explore other available products or check back later for stock replenishment.
Pre-conditions	The product must be available to buy.
Post-conditions	The product is added to Cart.
Non-functional	Increase the amount of products in the user's Cart if it is added.

2.6 Use-case: Buy Products

Use case Name	Buy Products
Brief description	Get an account
Actors	User
Basic Flow	<ol style="list-style-type: none"> 1. Click on the Cart button. 2. System open the Cart page. 3. Click on Buy Button. 4. System open Purchase page. 5. Choose the payment method. 6. Enter the information: Bank card number or Cash on Delivery (enter location) 7. Click on purchase button.. 8. System check the input. 9. System notify that payment success. 10. System add the latest order to the order list.
Alternative Flows	<p>Alternative flow 1: User doesn't choose payment method</p> <p>At Step 5, if users didn't choose the payment method system will force user to choose one of the two methods</p> <p>Alternative flow 2: Invalid information</p> <p>At Step 8, if the information is not valid system will notify the error for user to do up</p>

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Exceptional Flow	<p>1. Missing Payment Method:</p> <ul style="list-style-type: none"> - At Step 5, if the system detects that the user has not chosen a payment method, it prompts the user to select one before proceeding with the purchase. <p>2. User Prompt:</p> <ul style="list-style-type: none"> - The system displays a notification or message indicating that the user must choose a payment method to complete the purchase. - The user interface may highlight or draw attention to the payment method section to guide the user in making a selection.
Pre-conditions	The product must be in stock, user has already logged in
Post-conditions	Users get accounts for their own to play the game they want
Non-functional	None

2.7 Use-case: Add product

Use case Name	Add Product
Brief description	Add a product to a list of products on the Web.
Actors	Admin.
Basic Flow	<ol style="list-style-type: none"> 1. Click on the Add Products button. 2. Choose the type of product to add. 3. Click on Add Button. 3. System open a form. 4. Enter the product's information. 5. Click on Add button. 6. System check if the product's information is valid. 7. System add product to the list of products.

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Alternative Flows	<p>Alternative flow 1: Product has already been on the Web</p> <p>At Step 6, if the product has already been in the list, the system will give an error and open the form again.</p> <p>Alternative flow 2: Invalid information</p> <p>At Step 6, if the information is not valid (Unsuitable name or not reach the minimums amount allowed,...) the system will notify the error for the user to do up.</p>
Exceptional Flow	<p>1. Duplicate Product Entry:</p> <ul style="list-style-type: none"> - At Step 6, if the system detects that the product being added already exists in the list of products, it handles the situation by providing an error notification. <p>2. Error Notification:</p> <ul style="list-style-type: none"> - The system displays a clear error message indicating that the product being added already exists in the list. - The user is prompted to review and modify the product information or consider updating the existing entry if necessary.
Pre-conditions	<p>The list of products has been created.</p> <p>Product mustn't be included in the list of products.</p>
Post-conditions	The product is added to the list.
Non-functional	None

2.8 Use-case: Update product

Use case Name	Update Product.
Brief description	Update a product from a list of products on the Web.
Actors	Admin.
Basic Flow	<ol style="list-style-type: none"> 1. Click on the Products button. 2. Choose a specific product.

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	<p>3. Choose the Update button.</p> <p>4. Enter new information.</p> <p>5. Click on Save button.</p> <p>6. System check if the new information is valid.</p> <p>7. System update the product's information.</p>
Alternative Flows	<p>Alternative flow 1: Invalid information</p> <p>1. At Step 6, if the information is invalid system will require admin to re-enter it.</p> <p>2. At Step 6, if Admin exits the Update page the product will not be updated.</p>
Exceptional Flow	<p>1. Invalid Information:</p> <p>- At Step 6, if the system detects that the new information provided by the admin is invalid (e.g., incorrect format, missing required fields), it handles the situation by requiring the admin to correct the information.</p> <p>2. Admin Notification:</p> <p>- The system displays a notification or error message highlighting the specific issues with the entered information.</p> <p>- The admin is prompted to review and correct the information before proceeding.</p> <p>3. Preventing Exit without Save:</p> <p>- If the admin attempts to exit the update page without saving the changes, the system provides a confirmation prompt.</p> <p>- The prompt ensures that the admin acknowledges the unsaved changes and either saves or cancels the update before leaving the page.</p>
Pre-conditions	<p>The list of products has been created.</p> <p>Product must be included in the list of products</p>
Post-conditions	<p>The product's information is updated.</p>
Non-functional	<p>Send a notification to Users who have that product in their Cart or favorite list about updates.</p>

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2.9 Use-case: Delete Product

Use case Name	Delete Product.
Brief description	Delete a product from list of products on the Web.
Actors	Admin.
Basic Flow	<ol style="list-style-type: none"> 1. Click on Products button 2. Choose a specific product 3. Choose the Delete button 4. System require to confirm the Action 5. Click on Yes button 6. System delete product from the list
Alternative Flows	<p>Alternative flow 1: Admin cancels the process</p> <p>At Step 6, if admin choose No system will redirect the Admin Page</p>
Exceptional Flow	<p>1. Admin Cancels the Deletion:</p> <ul style="list-style-type: none"> - At Step 5, if the admin decides not to proceed with the deletion, they choose the "No" option when prompted to confirm the action. <p>2. Redirect to Admin Page:</p> <ul style="list-style-type: none"> - The system redirects the admin back to the admin page or the product management section without deleting the product. - No changes are made to the product list, and the product remains intact.
Pre-conditions	<p>The list of products has been created.</p> <p>Product must be included in the list of products.</p>
Post-conditions	The product is removed from the list, if the product is an app all the accounts for it will also be removed.
Non-functional	Send a notification to Users who have that product in their Cart or favorite list.

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2.10 Use-case: Rate Product

Use case Name	Rate
Brief description	Rate an app after buying or renting that app account
Actors	User
Basic Flow	<ol style="list-style-type: none"> 1. Click on Order List in the User page. 2. Click on the order that user wants to rate. 3. Choose the number of stars (from 1 to 5). 4. Click on the rate Button. 5. System requires the user to confirm . 6. Click on the Yes button. 7. System updates the average rating of that product.
Alternative Flows	<p>Alternative flow 1: User hasn't chosen the number of stars</p> <p>At Step 3, if the user hasn't chosen the number of stars, the system will require the user to do that.</p> <p>Alternative flow 2: User cancels the process</p> <p>At Step 6, if the user clicks on No button system will redirect to the Order List.</p>
Exceptional Flow	<p>1. User Hasn't Chosen the Number of Stars:</p> <ul style="list-style-type: none"> - At Step 3, if the system detects that the user has not selected the number of stars to rate the app, it handles the situation by requiring the user to make a selection. <p>2. User Prompt:</p> <ul style="list-style-type: none"> - The system displays a notification or error message indicating that the user must choose a rating (number of stars) before proceeding. - The user interface may highlight or prompt the user to provide a rating.

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Pre-conditions	Users must have purchased it for the rating session.
Post-conditions	Products will be rated by the average amount of stars
Non-functional	Current rate of products must be displayed clearly and easy to read for users to follow. Spamming ratings will get that user banned.