**Use case specification**

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# Use case “View list of orders”

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| **Use Case “View list of orders”**   1. **Use case code**   UC001   1. **Brief Description**   This use case describes the interaction between product manager and AIMS software when product manager wishes to view list of orders.   1. **Actors**    1. **Product manager** 2. **Preconditions**  * The product manager must be logged into the system.  1. **Basic Flow of Events** 2. The product manager selects to view list of orders 3. The software displays a list of available orders (see Table 1) 4. The product manager selects an order from the list 5. The software displays the details of the selected order (see Table 2) 6. **Output data**   **Table 1-Output data of list of orders**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | |  | ID | A code that uniquely identifies an order |  |  | |  | Customer | Customer name |  | Nguyen Hai Son | |  | Amount | Total amount of an order, includes shipping fees | * Vietnamse currency * Vietnamse locale * Comma separator | 20.000 ₫ | |  | State | State of an order (Pending, Approved, Rejected, Canceled) |  | Pending | |  | Action | To view an order detail |  |  |   **Table 2-Output data of order detail**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | |  | Name |  | Right alignment | Nguyen Hai Son | |  | Province |  | Right alignment | Hà Nội | |  | Address |  | Right alignment | 12, 34 Dich Vong Hau Street, Cau Giay Province | |  | Rush order |  | Right alignment | Yes | |  | Instructions | Displayed when the order is rush order | Right alignment |  | |  | Order Date |  | yyyy-mm-dd | 2024-06-19 | |  | Title | Title of a media product |  | DVD Phim Vượt ngục | |  | Price | Price of the  corresponding media  product | • Vietnamse currency  • Vietnamse locale  • Comma separator | 20.000 ₫ | |  | Quantity | Quantity of the  corresponding media |  | 2 | |  | Rush Delivery | Rush order supportability of the corresponding media |  | Supported | |  | Normal Shipping Fees |  | * Vietnamese currency * Vietnamese locale * Comma separator * Right alignment | 20.000 ₫ | |  | Rush Shipping Fees | Displayed when the order is rush order | |  | Total Amount |  | |  | State |  | Right alignment | Pending |   (The rows with green shading are repeated for all media products in the order) |

# Use case “Approve order”

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| **Use Case “Approve order”**   1. **Use case code**   UC002   1. **Brief Description**   This use case describes the interaction between product manager and AIMS software when product manager wishes to approve an order.   1. **Actors**    1. **Product manager** 2. **Preconditions**  * The product manager has accessed the order details * Order must be in pending state  1. **Basic Flow of Events** 2. The product manager selects the option to approve the order 3. AIMS software checks if the order can be approved 4. AIMS software updates the state of the order and the corresponding quantity of products in stock 5. AIMS software notifies the approval result 6. **Alternative flows**   **Table 1-Alternative flows of events for UC Approve order**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 3 | If there are not enough products in stock | * AIMS software notifies that there are not enough products in stock | Use case ends | |  | At Step 3 | If the order is not in pending state | * AIMS software notifies that the order must be in pending state in order to be approved | Use case ends |  1. **Postconditions**   The order state is updated to "Approved" in the system. |

# Use case “Reject order”

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| **Use Case “Reject order”**   1. **Use case code**   UC003   1. **Brief Description**   This use case describes the interaction between product manager and AIMS software when product manager wishes to reject an order.   1. **Actors**    1. **Product manager** 2. **Preconditions**  * The product manager has accessed the order details * Order must be in pending state  1. **Basic Flow of Events** 2. The product manager selects the option to reject the order 3. AIMS software checks if the order can be rejected 4. AIMS software updates the state of the order 5. AIMS software notifies the rejection result 6. **Alternative flows**   **Table 1-Alternative flows of events for UC Reject order**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 3 | If the order is not in pending state | * AIMS software notifies that the order must be in pending state in order to be rejected | Use case ends |  1. **Postconditions**   The order state is updated to "Rejected" in the system. |

# Use case “CRUD user”

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| **Use Case “CRUD User”**   1. **Use case code**   UC004   1. **Brief Description**   This use case describes the interaction between admin and AIMS software when admin wishes to CRUD users.   1. **Actors**    1. **Admin** 2. **Preconditions**  * The admin must be logged into the system as an admin role.  1. **Basic Flow of Events**   **5.1 Create**   1. The admin wishes to create a new user 2. The software displays a user creation form in Create New User Page. 3. The admin fills in this form and tries to submit 4. The software checks if all information is validated yet. 5. The software adds this user to the database and navigates to the admin page.   **5.2 Read**  **5.1.1 View lists of users**   1. The admin wishes to see lists of users 2. The software takes all the view options 3. The software takes all the users 4. The software display list of users' page include:  * Above: All three options for admin to filter the users (All, Active, Block) * Center: Lists of users  1. The admin selects one of these options 2. The software takes users to satisfy the option’s condition, displays in the center.   **5.1.2 View user details**   1. The admin wishes to see user details 2. The admin select user from the lists 3. The software takes all the data from this user 4. The software displays user details.   **5.3 Update**   1. The admin wishes to update user details 2. The admin select user from the lists 3. The software takes all the data from this user 4. The software displays user details. 5. The admin update user information and submit 6. The software validates this user information 7. The software update user information in the database and navigates to the admin page.   **5.3 Delete**   1. The admin wishes to delete a user. 2. The admin selects delete option from this user action dropdown. 3. The software display confirmation popup for this delete action 4. The admin confirms this delete action 5. The software deletes this user in the database and redisplays the list of users. 6. **Alternative flows**   **Table 1-Alternative flows of events for UC Create new user**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 3 | If the admin not filled in all the fields | * AIMS software display error: All fields must the filled. | Continue at step 3 | |  | At Step 3 | If any fields did not pass frontend validation | * AIMS software display error for this field. | Continue at step 3 | |  | At Step 3 | If backend validation did not pass. | * AIMS software display message error. | Continue at step 3 |   **Table 2-Alternative flows of events for UC View user details**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 2 | If the id of users is not correct | * AIMS software moves to not found page. | Use case ends |   **Table 3-Alternative flows of events for UC Update user details**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 2 | If the id of users is not correct | * AIMS software moves to not found page. | Use case ends | |  | At Step 5 | If the admin has not filled in any field of user. | * AIMS software display error: All fields must the filled. | Continue at step 5 | |  | At Step 5 | If any fields did not pass frontend validation | * AIMS software display error for this field. | Continue at step 5 | |  | At Step 5 | If backend validation did not pass. | * AIMS software display message error. | Continue at step 5 |   **Table 4-Alternative flows of events for UC Delete User**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 2 | If the id of users is not correct | * AIMS software moves to not found page. | Use case ends | |  | At Step 4 | If admin cancel this delete action | * AIMS software close confirmation pop up. | Use case ends |  1. **Activity Diagram** 2. **Input data**   **Table 5-Input data of create/update new user**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Mandatory** | **Successful condition** | **Example** | | 1. | Is Blocked | User’s Condition | Yes | Unique, not null | 1 = isBlocked | | 2. | User name | User’s Name | No | Number, not null | Le Hai Son | | 3. | Password | User’s Address | Yes | Not null | 123 Nguyen Trai | | 4. | role | User’s Role | Yes | Not null | Admin & Manager |  1. **Output data**   **Table 6 –Output data of list users**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | fullName | User’s Full Name | Left Alignment | Bui Ha | | 2. | email | User’s Email | Left Alignment | ha@gmail.com | | 3. | blocked | User’s blocked | Badge Left Alignment | Active or Block | | 4. | role | User’s role | Badge Left Alignment | Admin or Manager |   **Table 7 –Output data of user detail**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | id | User’s ID | Hidden | Hash64 bits | | 1. | fullName | User’s Full Name | Input field | Bui Ha | | 2. | email | User’s Email | Input field | ha@gmail.com | | 4. | role | User’s role | Dropdown options | Admin, Manager or Admin & Manager |     **10. Postcondition** User’s information is created in database with create action. User’s information is updated in database with update action. User is deleted in database with delete action. |

# Use case “Manage user role”

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| **Use Case “Manage User Role”**   1. **Use case code**   UC005   1. **Brief Description**   This use case describes the interaction between admin and AIMS software when admin wishes to manage user role.   1. **Actors**    1. **Admin** 2. **Preconditions**  * The admin must be logged into the system.  1. **Basic Flow of Events** 2. The admin wishes to update user role. 3. The admin selects user to update role. 4. The software displays the user update role form. 5. The admin chooses a new role for this user. 6. The admin submits. 7. The software displays an updated list of users. 8. **Alternative flows**   **Table 3-Alternative flows of events for UC Manage user role**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 2 | If the id of users is not correct | * AIMS software moves to not found page. | Use case ends | |  | At step 4 | If the admin cancels this update action | * AIMS software closes the popup update role. | Use case ends |  1. **Input data**   **Table 2-Input data of user detail**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Id | User’s ID | Hidden | Hash64 bits | | 2. | role | User’s role | Dropdown option | Admin |  1. **Post condition** User’s role is updated in the database, and AIMS system redisplays the updated list of users. |

# Use case “Block/Unblock user”

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| **Use Case “Block/Unblock User”**   1. **Use case code**   UC006   1. **Brief Description**   This use case describes the interaction between admin and AIMS software when admin wishes to block or unblock user.   1. **Actors**    1. **Admin** 2. **Preconditions**  * The admin must be logged into the system.  1. **Basic Flow of Events** 2. The admin select user to block 3. The software displays updated users list 4. **Alternative flows**   **Table 1-Alternative flows of events for UC Approve order**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 1 | If the admin is not logged in | * AIMS software redirect to the login page | Use case ends |  1. **Input data**   **Table 2-Input data of user detail**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | |  | Id | User’s ID |  |  |  1. **Post condition** User’s blocked is set to the the opposite status in the database, and AIMS system navigates to user's index page. |

# Use case “Change Password”

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| **Use Case “Change Password”**   1. **Use case code**   UC007   1. **Brief Description**   This use case describes the interaction between admin/manager and AIMS software when they wish to change password.   1. **Actors**    1. **Admin**    2. **Manager** 2. **Basic Flow of Events** 3. The user clicks on Change Password 4. The software displays Change Password page. 5. The user inputs a new password and confirmation password. 6. The software displays the admin or manager page based on their role. 7. **Alternative flows**   **Table 1-Alternative flows of events for UC Approve order**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 3 | If the new password or confirmation password is not typed | * AIMS software show error message to user | 3 | |  | At Step 3 | If the new password does not match with confirmation password. | * AIMS software show error message to user | 3 | |  | At Step 3 | If new password or confirmation password length is smaller than 8 or bigger than 100 | * AIMS software show error message to user | 3 |  1. **Input data**   **Table 1-Input data of user when login**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | |  | New Password | User’s new password | Input text | 12345678 | |  | Confirmation Password | To check if new and confirmation password is the same | Input text | 12345678 |  1. **Post condition** User’s password is changed and AIMS system navigates to admin or manager page based on their role. |

# Use case “View list of product in homepage”

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| **Use Case “View list of products in homepage”**   1. **Use case code**   UC008   1. **Brief Description**   This use case describes the process by which a user views a list of products on the homepage of AIMS.   1. **Actors**    1. **Customer**    2. **Admin**    3. **Manager** 2. **Basic Flow of Events** 3. The user clicks on “Home” of the system. 4. The software displays the list of products including essential information of the product 5. **Alternative flows** 6. **Output data**   **Table 1-Output data of list product in home page**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Title | Title of product |  | Doraemon | | 2. | Category | Category of product |  | Books | | 3. | Price | Price of product |  | 30đ | |

# Use case “Search product”

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| **Use Case “Search product”**   1. **Use case code**   UC009   1. **Brief Description**   This use case describes how an user search for a product on AIMS software using the search bar. The system display relevent product result to the user.   1. **Actors**    1. **Customer**    2. **Admin**    3. **Manager** 2. **Basic Flow of Events** 3. The user clicks on “Home” of the system. 4. User enter the title of the product on the search bar. 5. The software displays the relevant product result. 6. **Alternative flows**   **Table 1-Alternative flows of events for UC Search product**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | | 1. | At Step 2 | If the title user enter does not exist | * AIMS software show blank | At step 2 |  1. **Input data**   **Table 1-Input data of search product**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Title | Title of product |  | The Gobfather |  1. **Output data**   **Table 2-Output data of search product**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Title | Title of product |  | Doraemon | | 2. | Category | Category of product |  | Books | | 3. | Price | Price of product |  | 30đ | |

# Use case “View product detail information”

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| **Use Case “View product detail information”**   1. **Use case code**   UC010   1. **Brief Description**   This use case describes how an user view detailed information about a specific product on the AIMS software. The user select a product to see more detailed information.   1. **Actors**    1. **Customer**    2. **Admin**    3. **Manager** 2. **Basic Flow of Events** 3. The user clicks on a product from a product list or search product in search bar. 4. The software displays the detailed information including title, image, price, category, … 5. **Alternative flows** 6. **Output data**   **Table 1-Output data of search product**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Title | Title of product |  | Doraemon | | 2. | Category | Category of product |  | Books | | 3. | Price | Price of product |  | 30đ | | 4. | Year | Year of produce CD |  | 1969 | | 5. | Genre | Genre of Product |  | Rock | | 6. | Record Label | Name of Record Label of CD |  | Apple Records | | 7. | Tracklist | Tracklist of CD |  | Come Together, Something, etc | | 8. | Language | Language support of product |  | English, France, Spanish | | 9. | Studio | Studio that produce DVD |  | Paramount Pictures | | 10. | Director | Director of the DVD |  | Nguyen Quang Dung | | 11. | Duration | Time duration of DVD |  | 175 minutes | | 12. | Author | Author of Book |  | F.Scott Fizgerald | | 13. | Number of pages | Number of page of book |  | 180 | | 14. | Publication Date | The Publication Date of book |  | 4/10/1995 | | 15. | Publisher | The Publisher of the book |  | Scribner | |

# Use case “Add product to cart”

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| **Use Case “Add product to cart”**   1. **Use case code**   UC011   1. **Brief Description**   This use case describes the process by which user adds a product to their shopping cart. This allows the user to save the product for future purchase.   1. **Actors**    1. **Customer** 2. **Basic Flow of Events** 3. The users look for the product that they want add to cart and clicks on “View Detail”. 4. User click on the “Add to cart” button to add product to cart. 5. **Alternative flows**   **Table 1-Alternative flows of events for UC Add product to cart**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | | 1. | At Step 2 | If the product is out of stock | * Display error message | At step 1 |  1. **Input data** 2. **Output data** |

# Use case “View cart”

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| **Use Case “View cart”**   1. **Use case code**   UC012   1. **Brief Description**   This use case describes the process by which user view the contents of their shopping cart. This allow user to review the products they have selected for purchase before proceeding to checkout.   1. **Actors**    1. **Customer** 2. **Basic Flow of Events** 3. The user navigates to the cart by click on the cart icon. 4. The system displays the shopping cart page, showing all the products in the cart with their details, including name, image, selected options, quantity, price, and subtotal. 5. **Alternative flows** 6. **Input data** 7. **Output data**   **Table 2-Output data of View cart**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Title | Title of product |  | The Godfather | | 2. | Category | Category of the product |  | DVD | | 3. | Price | Unit price of product |  | 200.000đ | | 4. | Quantity | Quantity of each product |  | 2 | | 5. | Order Summary | Order summary of user’s cart |  | Total 150.000đ | |

# Use case “Update cart”

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Use Case “Update cart”**   1. **Use case code**   UC013   1. **Brief Description**   This use case describes the process by which a user updates the contents of their shopping cart on the e-commerce website. This includes changing the quantity of products, removing products, and updating selected product options.   1. **Actors**    1. **Customer** 2. **Preconditions**   User has at lease 1 product in their shopping cart.   1. **Basic Flow of Events** 2. The user clicks on cart icon to navigate to user’s cart. 3. User change the quantity of products, removes products, or updates selected product options. 4. The software displays the updated cart contents and updated the order summary to the user, reflecting the changes made. 5. **Alternative flows**   **Table 1-Alternative flows of events for UC Update cart**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | | 1. | At Step 2 | If the quantity is invalid (negative number or zero) | * Display error message “Quantity must be a number” | At step 2 | | 2. | At Step 2 | If the user enters an invalid quantity (e.g., a negative number or a quantity that exceeds available stock): | * Display error message “The quantity is out of stock” | At step 2 |  1. **Input data**   **Table 1-Input data of update cart**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Number | Number of product |  | 9 |  1. **Output data**   **Table 2-Output data of update cart**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Number | Number of product has been updated |  | 9 | |

# Use case “Place Order”

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| **Use Case “Place Order”**   1. **Use case code**   UC014   1. **Brief Description**   This use case describes the process a user places an order for the items in their shopping cart on. This involves reviewing the cart, entering shipping and payment information, and confirming the order.   1. **Actors**    1. **Customer** 2. **Precondition**   User has at least 1 product at their product   1. **Basic Flow of Events** 2. The user clicks on cart icon and review the items in their cart. 3. User click on “Check out” button 4. The software displays the checkout page, including order summary, shipping address, and personal information. 5. Users click on the “Proceed to Payment” button. 6. Users review, confirm their order and click on the “Place Order” 7. Use case Pay Order.   **UC Pay Order**   1. User enter information including Card information to Pay Order 2. User enter OTP code that VNPay send. 3. VNPay process Pay Order. 4. VNPay redirect user to result screen at AIMS.   **UC Place Rush Order**   1. User Click on Rush Order button to choose Rush Order delivery. 2. System display rush order form. 3. User enter on rush order form and click “Proceed Payment button” 4. **Alternative flows**   **Table 1-Alternative flows of events for UC Place Order**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | | 1. | At Step 3 | If the address of user support Rush Delivery, user can choose Rush Delivery for faster shipping | * Display Rush Delivery form and use UC Place Rush Order | At step 3 | | 2. | At Step 3 | If the user need to update the cart |  | At step 1 | | 3. | At Step 5 | If user the need to edit the personal information or shipping address |  | At Step 1 | | 4. | At Step 6 | If user want to get back to AIMS software and cancel pay order | * AIMS software display error message | At step 1 |  1. **Input data**   **Table 1-Input data of Place Order**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Personal Information | Personal Information of user |  | Name: Le Hai Son  Phone number: 0123456789 Email: nguyenvana@gmail.com | | 2. | Shipping address | Shipping address of user |  | Province: Ha Noi  District: Hai Ba Trung  Street Address: So 1 Dai Co Viet |  1. **Output data**   **Table 2-Output data of Place Order**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Your Order | Order detail of user |  | Name: Le Hai Son  Phone: number: 0123456789 Email: [nguyenvana@gmail.com](mailto:nguyenvana@gmail.com) Province: Ha Noi  District: Hai Ba Trung  Street Address: So 1 Dai Co Viet Product: Abey Road Qty: 1 Price 190.000đ  Shipping fee: 7500đ  Total: 197.000đ | |

# Use case “View order information”

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| **Use Case “View order information”**   1. **Use case code**   UC015   1. **Brief Description**   This use case describes the process a user views detailed information about their past orders. This allows the user to review order details, track shipping status, and access invoice information.   1. **Actors**    1. **Customer** 2. **Precondition**   User has at least 1 order.   1. **Basic Flow of Events** 2. The user clicks on “My Order” icon at homepage. 3. System display list of orders , showing basic information such as order number, date, status, and total amount. 4. The software displays the checkout page, including order summary, shipping address, and personal information. 5. Users click on a specific order to view more details. 6. The system displays the detailed order information, including product details, shipping address, payment method, and order status. 7. **Alternative flows** 8. **Input data** 9. **Output data**   **Table 2-Output data of View order information**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Order Information | Order detail of user |  | Name: Nguyen Van A  Phone: number: 0123456789 Email: [nguyenvana@gmail.com](mailto:nguyenvana@gmail.com) Province: Ha Noi  District: Hai Ba Trung  Street Address: So 1 Dai Co Viet Product: Abey Road Qty: 1 Price 190.000đ  Shipping fee: 7500đ  Total: 197.000đ  Order status: In progress | |

# Use case “Cancel Order”

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Use Case “Cancel Order”**   1. **Use case code**   UC016   1. **Brief Description**   This use case describes the process a user cancels an order they have placed.   1. **Actors**    1. **Customer** 2. **Precondition**   User has placed at least 1 order that is eligible for cancellation (e.g., the order has not yet been shipped).   1. **Basic Flow of Events** 2. The user clicks on My Order button at homepage. 3. The software displays the list of orders, showing basic information such as order number, date, status, and total amount. 4. The user clicks on a specific order that they wish to cancel. 5. The system checks if the order is eligible for cancellation. 6. The user clicks the "Cancel Order" button. 7. The system display successful cancellation and updates the order status to "Cancelled" in the database and not processes any refunds. 8. **Alternative flows**   **Table 1-Alternative flows of events for UC Cancel Order**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | | 1. | At Step 3 | If the order is not eligible for cancellation (e.g., it has already been shipped): | * Display a message indicating that the order cannot be cancelled | At step 2 |  1. **Input data** 2. **Output data**   **Table 2-Output data of Cancel Order**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Order number | Order number of customer |  | 1 | | 2. | Order date | Date that customer place order |  | 10/6/2024 | | 3. | Product detail | Product detail |  | Name: Godfather  Qty: 1  Price: 190.000đ | |

# Use case “Login”

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Use Case “Login”**  **1.Use case code**  UC017   1. **Brief Description**   This use case describes the process by which a user logs into the system using their username and password. The system will authenticate the user and grant access to authorized features and resources.   1. **Actors**    1. **Admin**    2. **Manager** 2. **Basic Flow of Events**   1 The user navigates to the login page.  2 The user enters their username and password into the respective fields.  3 The user submits the login form by clicking the "Login" button.  4 The system captures the username and password and sends them to the authentication system.  5 The authentication system verifies the credentials:   * If the credentials are valid, proceed to step 6. * If the credentials are invalid, proceed to the Alternate Flow 1 (AF1).   6 The system creates a user session and logs the successful login.   The system redirects the user to the homepage (or dashboard) indicating successful login.   1. **Alternative flows**   **Table 1-Alternative flows of events for UC Approve order**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 3 | If the new password or confirmation password is not typed | * AIMS software show error message to user | 3 | |  | At Step 3 | If the new password does not match with confirmation password. | * AIMS software show error message to user | 3 | |  | At Step 3 | If new password or confirmation password length is smaller than 8 or bigger than 100 | * AIMS software show error message to user | 3 |  1. **Input data**   **Table 1-Input data of user when login**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | |  | UserName | User’s name | Input text | nguyenhaison | |  | Password | User’s password | Input text | 12345678 |  1. **Post condition** User is authorized into the system |

# Use case “CRUD product”

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| **Use Case “CRUD Product”**  **1.Use case code**  UC018  **2.Brief Description**  This use case describes the interaction between manager and AIMS software when admin wishes to CRUD products.   1. **Actors**    1. **Manager** 2. **Preconditions**  * The manager must be logged into the system as an manager role.  1. **Basic Flow of Events**   **5.1 Create**   1. The manager wishes to create a new product 2. The software displays a product creation form in Create New Product Page. 3. The manager fills in this form and tries to submit 4. The software checks if all information is validated yet. 5. The software adds this user to the database and navigates to the manager page.   **5.2 Read**  **5.1.1 View lists of products**   1. The manager wishes to see lists of products 2. The software takes all the view options 3. The software takes all the products 4. The software display list of products' page include:   **5.1.2 View product details**   1. The manager wishes to see product details 2. The manager select product from the lists 3. The software takes all the data from this product 4. The software displays product details.   **5.3 Update**   1. The manager wishes to update product details 2. The manager select user from the lists 3. The software takes all the data from this user 4. The software displays user details. 5. The manager update user information and submit 6. The software validates this user information 7. The software update user information in the database and navigates to the manager page.   **5.3 Delete**   1. The manager wishes to delete a user. 2. The manager selects delete option from this user action dropdown. 3. The software display confirmation popup for this delete action 4. The manager confirms this delete action 5. The software deletes this user in the database and redisplays the list of users. 6. **Alternative flows**   **Table 1-Alternative flows of events for UC Create new user**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 3 | If the manager not filled in all the fields | * AIMS software display error: All fields must the filled. | Continue at step 3 | |  | At Step 3 | If any fields did not pass frontend validation | * AIMS software display error for this field. | Continue at step 3 | |  | At Step 3 | If backend validation did not pass. | * AIMS software display message error. | Continue at step 3 |   **Table 2-Alternative flows of events for UC View user details**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 2 | If the id of products is not correct | * AIMS software moves to not found page. | Use case ends |   **Table 3-Alternative flows of events for UC Update user details**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 2 | If the id of products is not correct | * AIMS software moves to not found page. | Use case ends | |  | At Step 5 | If the manager has not filled in any field of user. | * AIMS software display error: All fields must the filled. | Continue at step 5 | |  | At Step 5 | If any fields did not pass frontend validation | * AIMS software display error for this field. | Continue at step 5 | |  | At Step 5 | If backend validation did not pass. | * AIMS software display message error. | Continue at step 5 |   **Table 4-Alternative flows of events for UC Delete User**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 2 | If the id of products is not correct | * AIMS software moves to not found page. | Use case ends | |  | At Step 4 | If manager cancel this delete action | * AIMS software close confirmation pop up. | Use case ends |  1. **Activity Diagram** 2. **Input data**   **Table 5-Input data of create/update new user**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Mandatory** | **Successful condition** | **Example** | | 1. | Price | Product’s Full Name | Yes | Number, not null | 33.3 | | 2. | Qty\_in\_stock | Quantity of products in stock | Yes | Number, not null | 52 | | 3. | Rush\_order\_eligible | Can be eligible for rush order ? | Yes | boolean, not null | TRUE | | 4. | weight | Weight of product | Yes | Number, Not null | 2.01 | | 5. | year | Year that release the product | Yes | Number, Not null | 2013 | | 6. | category | Category of product | Yes | String, Not null | DVD | | 7. | Image\_url | url of image of product | Yes | String, Not null | https://www.google.com.vn/url?sa=i&url=https%3A%2F%2Fwww.shutterstock.com%2Fsearch%2Fbatman-movie&psig=AOvVaw0YjkkExOuefocfrjbzsMHg&ust=1718806885912000&source=images&cd=vfe&opi=89978449&ved=0CBEQjRxqFwoTCJDZ5OvO5IYDFQAAAAAdAAAAABAE | | 8. | title | Title of product | Yes | String, Not null | Batman | | 9. | value | Value of product | Yes | Value, Not null | 12000 |  1. **Output data**   **Table 7 –Output data of user detail**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | | 1. | Price | Product’s Full Name | Input field | 33.3 | | 2. | Qty\_in\_stock | Quantity of products in stock | Input field | 52 | | 3. | Rush\_order\_eligible | Can be eligible for rush order ? | checkbox | TRUE | | 4. | weight | Weight of product | Input field | 2.01 | | 5. | year | Year that release the product | Input field | 2013 | | 6. | category | Category of product | Dropdown menu | DVD | | 7. | Image\_url | url of image of product | Input field | https://www.google.com.vn/url?sa=i&url=https%3A%2F%2Fwww.shutterstock.com%2Fsearch%2Fbatman-movie&psig=AOvVaw0YjkkExOuefocfrjbzsMHg&ust=1718806885912000&source=images&cd=vfe&opi=89978449&ved=0CBEQjRxqFwoTCJDZ5OvO5IYDFQAAAAAdAAAAABAE | | 8. | title | Title of product | Input field | Batman | | 9. | value | Value of product | Input field | 12000 |     **10.Postcondition** Product’s information is created in database with create action. Product’s information is updated in database with update action. Product is deleted in database with delete action. |