Management store

Use-Case Specification: Use -Case management store

Version 1.4

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 14/11/2019 | 1.0 | Use-case specification feature: Search product, Add a bill, Add a product to bill, Export a bill, Search a member, Statistics by product, Statistics by product type, Statistics product many buyer, Add a staff, Delete a staff, Search a staff. | Nguyen Ly Nhat Phuong |
| 15/11/2019 | 1.1 | Draw use case model. Use-case specification feature: Login, logout, register member, change password | Ly Thanh Long |
| 15/11/2019 | 1.2 | Make use-case and specialization for the use-case | Nguyen Tuan Phung |
| 17/11/2019 | 1.3 | Feature: import product, export product, check inventory | Vo Khanh Vy |
| 22/11/2019 | 1.4 | Update use case model | Ly Thanh Long |

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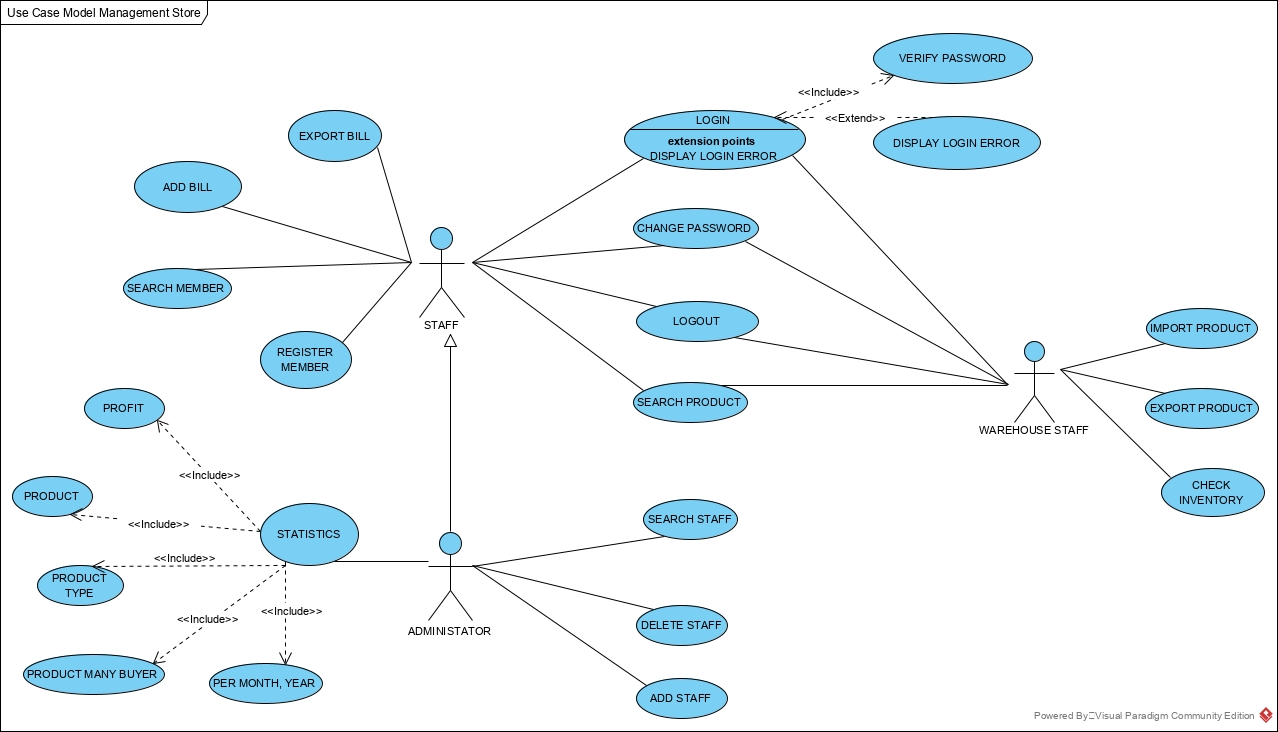
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# Use-case Model



# Use-case Specifications

## Use-case: Search product

|  |  |
| --- | --- |
| Use case Name | Search product. |
| Brief description | This use case describes how the staffs, warehouse staff and administrator can see the information of a product in both the store and the storage. |
| Actors | Administrator, staffs, warehouse staff. |
| Basic Flow | 1. At the main menu, user clicks on ‘Check product’ button to open search product window. 2. System displays the search product window . 3. User enters the ID of the product on the ‘Search’ field. 4. User clicks on the ‘Search’ button to start searching a product. 5. System displays the product found. |
| Alternative Flows | **Alternative flow 1: User cannot find products searched**   1. From #3 of the basic flow, user enters another term. 2. Continue step #4 in the basic flow. |
| Pre-conditions | User goes to main menu. |
| Post-conditions | The user successfully sees information of the searched product or sees information of all the product in the store or in the storage or both. |

## Use-case: Add a bill

|  |  |
| --- | --- |
| Use case Name | Add a bill |
| Brief description | This use case describes how the staffs and the administrator can add it to the database. |
| Actors | Staffs, administrator. |
| Basic Flow | 1. At the main menu, the user clicks ‘Check bill’ button. 2. System displays the bill window. 3. User clicks ‘Add a bill’ button. 4. System displays the add bill window. 5. User adds all product the customer bought to the bill. 6. User clicks ‘Add bill’ button. 7. System adds the bill to the database. 8. System displays all the information of the bill added. |
| Alternative Flows | **Alternative flow 1: The customer is a member**   1. After step #4 of the basic flow, user enters the member id of the customer. 2. Continue step #5 in the basic flow.   **Alternative flow 1: Add bill failed**   1. Do again from step #5 of the basic flow. |
| Pre-conditions | User goes to bill menu. |
| Post-conditions | The user successfully adds the bill to the database. |

## Use-case: Export a bill

|  |  |
| --- | --- |
| Use case Name | Export a bill. |
| Brief description | This use case describes how the staffs and the administrator export a bill information. |
| Actors | Staffs, administrator. |
| Basic Flow | 1. At the main menu, the user clicks ‘Check bill’ button. 2. System displays the bill window. 3. User searchs and selects the bill to export. 4. User clicks ‘Export a bill’ button. 5. System displays the window to choose the output directory and file type. 6. User select output directory and file type. 7. User clicks ‘OK’ button. 8. System displays the confirm window. 9. User clicks ‘Yes’ button. 10. System export the bill to the selected directory. 11. System displays all information of the exported bill. |
| Alternative Flows | **Alternative flow 1: User cannot find the bill**   1. From #2 of the basic flow, user search and selects another bill. 2. Continue step #7 in the basic flow. |
| Pre-conditions | User goes to bill window. |
| Post-conditions | The user successfully exports the bill. |

## Use-case: Search a staff

|  |  |
| --- | --- |
| Use case Name | Search a staff. |
| Brief description | This use case describes how the administrator can search for a staff who work for the store. |
| Actors | Administrator. |
| Basic Flow | 1. At the main menu, user clicks on ‘Staffs’ button to open staffs window. 2. System displays the staffs window . 3. User enters the ID of the staff on the ‘Search’ field. 4. User clicks on the ‘Search’ button to start searching the staff. 5. System displays the staff found. |
| Alternative Flows | **Alternative flow 1: User cannot find the staff searched**   1. From #3 of the basic flow, user enters another term. 2. Continue step #4 in the basic flow. |
| Pre-conditions | User goes to main menu. |
| Post-conditions | The user successfully sees information of the searched staff. |

## Use-case: Add a staff

|  |  |
| --- | --- |
| Use case Name | Add a staff. |
| Brief description | This use case describes how the administrator can add a new staff when a person apply for the job. |
| Actors | Administrator. |
| Basic Flow | 1. At the main menu, the user clicks the ‘Staffs’ button. 2. System displays the staffs window. 3. User clicks ‘Add a staff’ button. 4. User writes down the information of the new staff. 5. User clicks ‘Add’ button. 6. System adds the new staff to the database. 7. System displays the information of the new added staff. |
| Alternative Flows | **Alternative flow 1: Add a new staff failed**   1. Do again from step #4 of the basic flow. |
| Pre-conditions | User goes to main menu. |
| Post-conditions | The user successfully adds a new staff to the database. |

## Use-case: Delete a staff

|  |  |
| --- | --- |
| Use case Name | Delete a staff. |
| Brief description | This use case describes how the store manager can remove a staff when the person retire the job. |
| Actors | Administrator. |
| Basic Flow | 1. At the main menu, the user clicks the ‘Staffs’ button. 2. System displays the staffs window. 3. User search for the staff want to delete. 4. User clicks on the staff. 5. User clicks ‘Delete a staff’ button. 6. System displays the confirm window. 7. User clicks ‘Yes’ button. 8. System deletes the staff from the database. 9. System displays information of all people who work for the store. |
| Alternative Flows | **Alternative flow 1: Delete staff failed**   1. Do again from step #3 of the basic flow. |
| Pre-conditions | User goes to main menu. |
| Post-conditions | The user successfully deletes a staff from the database. |

## Use-case: Search information member

|  |  |
| --- | --- |
| Use case Name | Search information member. |
| Brief description | This use case describes how the staffs and the administrator can search for a member information. |
| Actors | Staffs, administrator. |
| Basic Flow | 1. At the main, the user click ‘Check member’ button. 2. System displays member window. 3. User enters the customer ID or phone number on the ‘Search’ field. 4. Users clicks on ‘Search’ button to start searching a customer. 5. System displays the customer found. |
| Alternative Flows | **Alternative flow 1: User cannot find customer searched**   1. From #3 of the basic flow, user enters another term 2. Continue step #4 in the basic flow |
| Pre-conditions | User goes to main menu. |
| Post-conditions | The user successfully sees the information of the member searched. |

## Use-case: Statistics by product

|  |  |
| --- | --- |
| Use case Name | Statistics by product. |
| Brief description | This use case describes how the administrator can make statistics of sale by product. |
| Actors | Administrator. |
| Basic Flow | 1. At the homepage, the user clicks ‘Statistic’ button. 2. System displays the statistic window. 3. User selects the time want to statistic. 4. User clicks ‘Statistic by product’ button. 5. System makes statistic by product in the selected time. 6. System displays the statistic result. |
| Alternative Flows | **Alternative flow 1: User doesn’t select the time**   1. From #5 of the basic flow, system make statistic by product from the beginning of the data to the current time. 2. Continue step #6 in the basic flow.   **Alternative flow 2: User just selects year and month**   1. From #5 of the basic flow, system make statistic by product in the selected month of the selected year. 2. Continue step #6 in the basic flow.   **Alternative flow 3: User just selects year**   1. From #5 of the basic flow, system make statistic by product in all the month of the selected year. 2. Continue step #6 in the basic flow. |
| Pre-conditions | User goes to main menu. |
| Post-conditions | The user successfully sees the statistic result. |

## Use-case: Statistics by product type

|  |  |
| --- | --- |
| Use case Name | Statistics by product type. |
| Brief description | This use case describes how the administrator can make statistics of sale by product type. |
| Actors | Administrator. |
| Basic Flow | 1. At the homepage, the user clicks ‘Statistic’ button. 2. System displays the statistic window. 3. User selects the time want to statistic. 4. User clicks ‘Statistic by product type’ button. 5. System makes statistic by product type in the selected time. 6. System displays the statistic result. |
| Alternative Flows | **Alternative flow 1: User doesn’t select the time**   1. From #5 of the basic flow, system make statistic by product type from the beginning of the data to the current time. 2. Continue step #6 in the basic flow.   **Alternative flow 2: User just selects year and month**   1. From #5 of the basic flow, system make statistic by product type in the selected month of the selected year. 2. Continue step #6 in the basic flow.   **Alternative flow 3: User just selects year**   1. From #5 of the basic flow, system make statistic by product type in all the month of the selected year. 2. Continue step #6 in the basic flow. |
| Pre-conditions | User goes to main menu. |
| Post-conditions | The user successfully sees the statistic result. |

## Use-case: Statistics product many buyer

|  |  |
| --- | --- |
| Use case Name | Statistics product many buyer. |
| Brief description | This use case describes how the administrator can make statistics for best sell products. |
| Actors | Administrator. |
| Basic Flow | 1. At the homepage, the user clicks ‘Statistic’ button. 2. System displays the statistic window. 3. User selects the time want to statistic. 4. User clicks ‘Statistic product many buyer’ button. 5. System makes statistic for best sell products of the store in the selected time. 6. System displays the statistic result. |
| Alternative Flows | **Alternative flow 1: User doesn’t select the time**   1. From #5 of the basic flow, system make statistic for best sell products of the store from the beginning of the data to the current time. 2. Continue step #6 in the basic flow.   **Alternative flow 2: User just selects year and month**   1. From #5 of the basic flow, system make statistic for best sell products of the store in the selected month of the selected year. 2. Continue step #6 in the basic flow.   **Alternative flow 3: User just selects year**   1. From #5 of the basic flow, system make statistic for best sell products of the store in all the month of the selected year. 2. Continue step #6 in the basic flow. |
| Pre-conditions | User goes to main menu. |
| Post-conditions | The user successfully sees the statistic result. |

## Use-case: Login

|  |  |
| --- | --- |
| Use case Name | Login |
| Brief description | This use case describes  how a user logs into the system |
| Actors | Staff, Administrator, Warehouse staff |
| Basic Flow | 1. At the main menu, show screen login system. 2. User will input username and password  The system displays the Main Form and the use case ends. |
| Alternative Flows | **Alternative Flows 1: User login don’t success**   1. Try again until login success |
| Pre-conditions | Preconditions will be determined during the next iteration |
| Post-conditions | The user successfully login. |

## Use-case: Log out

|  |  |
| --- | --- |
| Use case Name | Log out |
| Brief description | This use case describes  how a user logs out the system |
| Actors | Staff, Administrator, Warehouse staff |
| Basic Flow | 1. At the main menu have button exist |
| Alternative Flows |  |
| Pre-conditions | Preconditions will be determined during the next iteration |
| Post-conditions | The user successfully login. |

## Use-case: Change password

|  |  |
| --- | --- |
| Use case Name | Change password |
| Brief description | This use case describes  how a user change password into the system |
| Actors | Staff, Administrator, Warehouse staff |
| Basic Flow | 1. At the main menu, when user login success user can change password 2. User click button ‘change password’ 3. At Form ‘change password’ user can fill in username, old password, new password, confirm password then click button OK 4. If username and old password conflict with system then require user fill in again 5. If form is null then require user fill in again 6. If new password and confirm password conflict, then require user fill in again 7. Notice change password success |
| Alternative Flows | **Alternative Flows 1: User login don’t success**   1. User change password conflict 2. Continue step #3 in the basic flow |
| Pre-conditions | Preconditions will be determined during the next iteration. |
| Post-conditions | The user change password successfully. |

## Use-case: Register member

|  |  |
| --- | --- |
| Use case Name | Register member |
| Brief description | This use case describes  how a user register member at store |
| Actors | Staff, Administrator |
| Basic Flow | 1. At UI of staff, administrator have button register member 2. Click button, then show form fill in information so that register 3. Then click button OK |
| Alternative Flows | None |
| Pre-conditions | Preconditions will be determined during the next iteration. |
| Post-conditions | The user change password successfully. |

## Use-case: Statistic per month, year

|  |  |
| --- | --- |
| Use case Name | Statistic per month, year |
| Brief description | This use-case shows the user the statistic goods in warehouse (best-selling or inventory). |
| Actors | Manager |
| Basic Flow | At the manager’s homepage, the manager presses the Statistic per month/year button.User selects the start date and end date in date box, press show to see the data.System will show how many products still in warehouse, which one is the best-selling, which is the inventory (depend on numbers of product from the). |
| Alternative Flows | **Alternative flow 1: User cannot find products searched** |
| Post-conditions | The user can see the statistic of the store after one month, many month or year |

## Use-case: Statistic profit

|  |  |
| --- | --- |
| Use case Name | Statistic of profit per month, year |
| Brief description | The use-case is show user the profit of store |
| Actors | Manager |
| Basic Flow | At manager’s homepage, the manager presses the Statistic profit buttonUser select the start date and end date in date box, press show to see the dataSystem will show the total profit of store per month, year. |
| Alternative Flows |  |
| Post-conditions | The user can see the statistic profit of store per month, year. |

## Use-case: Import product

|  |  |
| --- | --- |
| Use case Name | Import product |
| Brief description | This use case describes how the Warehouse staff can import products from the supplier into the store's warehouse. |
| Actors | Warehouse staff |
| Basic Flow | 1. In the interface of warehouse staff, warehouse staff will select the Import feature. Warehouse staff clicks on ‘Import Product’ button. 2. Warehouse staff will enter the necessary information of the product. 3. Warehouse staff click on the "Import" button to import product. 4. The system will add products to the list of products in stock. 5. The system will display a list of products currently in stock for warehouse staff . |
| Alternative Flows | **Alternative flow 1: Warehouse has already had the product**   1. From #4 of the basic flow, system increases the quantity of the product 2. Continue step #5 |
| Pre-conditions | Warehouse staff goes to the interface. |
| Post-conditions | The warehouse staff successfully import product to stock or increases quantity of the existing product in the stock. |

## Use-case: Check inventory

|  |  |
| --- | --- |
| Use case Name | Check inventory |
| Brief description | This use case describes how the Warehouse staff will select the Check feature. Warehouse staff clicks on ‘Check inventory’ button. |
| Actors | Warehouse |
| Basic Flow | 1. At the homepage, the Warehouse staff will enter the time unit to check on the ‘Check’ field 2. Users clicks on ‘Check’ button to start statistics on a product. 3. The system will calculate the number of products that are imported, exported, and the difference of each product. |
| Alternative Flows |  |
| Pre-conditions | Warehouse staff goes to the interface. |
| Post-conditions | Warehouse staff successfully check the number of products |

## Use-case: Export product

|  |  |
| --- | --- |
| Use case Name | Export product |
| Brief description | This use case describes how the Warehouse staff can export products from stock to display shelves and reduce the number of products that exist in the warehouse |
| Actors | Warehouse staff |
| Basic Flow | 1. In the interface of warehouse staff, warehouse staff will select the Export feature. Warehouse staff clicks on ‘Export Product’ button. 2. Warehouse staff will enter the name and number of the product. 3. Warehouse staff click on the "Export" button to export product. 4. The system will reduce the number of products to the list of products in stock. 5. The system will display a list of products currently in stock for warehouse staff . |
| Alternative Flows | **Alternative flow 1: Warehouse has not already had the product**   1. From #2 of the basic flow, Warehouse staff will enter the name of the product. 2. Continue step #3 in the basic flow.   **Alternative flow 2** : **Warehouse staff enter the quantity more than the current quantity of the products**   1. From #2 of the basic flow, Warehouse staff will enter the number of the product. 2. Continue step #3 in the basic flow. |
| Pre-conditions | Warehouse staff goes to the interface. |
| Post-conditions | The warehouse staff successfully export product to stock or decreases quantity of the existing product in the stock. |