

**Capstone Project Report**

**Report 2 – System Requirement Specification**

– Ho Chi Minh, January 2021 –

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# I. Project Report

## 1. Status Report

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Work Item** | **Status** | **Notes (Work Item in Details)** |
| 1 | Overall Description |  |  |
| 2 | User Requirements |  |  |
| 3 | Functional Requirements |  |  |
| 4 | Non-Functional Requirements |  |  |
| 5 | Others Requirements |  |  |

## 2. Team Involvements

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task** | **Member** | **Notes (Task Details, etc.)** |
| 1 | Overall Description |  |  |
| 2 | User Requirements |  |  |
| 3 | Functional Requirements |  |  |
| 4 | Non-Functional Requirements |  |  |
| 5 | Others Requirements |  |  |

## 3. Issues/Suggestions

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Issue** | **Status** | **Notes (Solution, Suggestion, etc.)** |
| 1 |  |  |  |

# II. System Requirement Specification

## 1. Overall Description

### 1.1 Product Overview

#### Unauthenticated User Requirements

Unauthenticated user who has not been identified by CFFA system. Unauthenticated user has limited access to the system with the following feature:

* Login

#### Authenticated User Requirements

Authenticated User who has been logged into the CFFA system. Authenticated user can use the following functions:

* Logout
* Change account's password
* Watch the video
* Save the video
* Delete the video
* View the reports
* View report detail
* Export the report file

#### Manager Requirements

Manager is a person who accesses to the system as manager role. Manager can use the following functions:

* View the shelves
* View shelf detail
* Search the shelf
* Create new shelf
* Update the shelf
* Delete the shelf
* View the stacks
* View stack detail
* Search the stacks
* Create new stack
* Update the stack
* Delete the stack
* View the products
* View product detail
* Search the products
* Create new product
* Update the product
* Delete the product
* View the cameras
* View camera detail
* Search the cameras
* Create new camera
* Update the camera
* Delete the camera
* View the categories
* Create new category
* Update the category
* Delete the category

#### Admin Requirements

Admin is a person who accesses to the system as admin role. Admin can use the following functions:

* View the managers
* View manager detail
* Search the manager
* Create new manager
* Update the manager
* Delete the manager
* View the accounts
* View account detail
* Search the account
* Create new account
* Update the account
* Delete the account
* View the stores
* View store detail
* Search the store
* Create new store
* Update the store
* Delete the account
* Send the mail to the manager

#### Camera Requirements

Camera is an actor which can do:

* Send the videos to the server

#### System AI Requirements

System AI is an actor which can do:

* Analyze facial expression
* Detect the "hotspot"

### 1.2 Business Rules

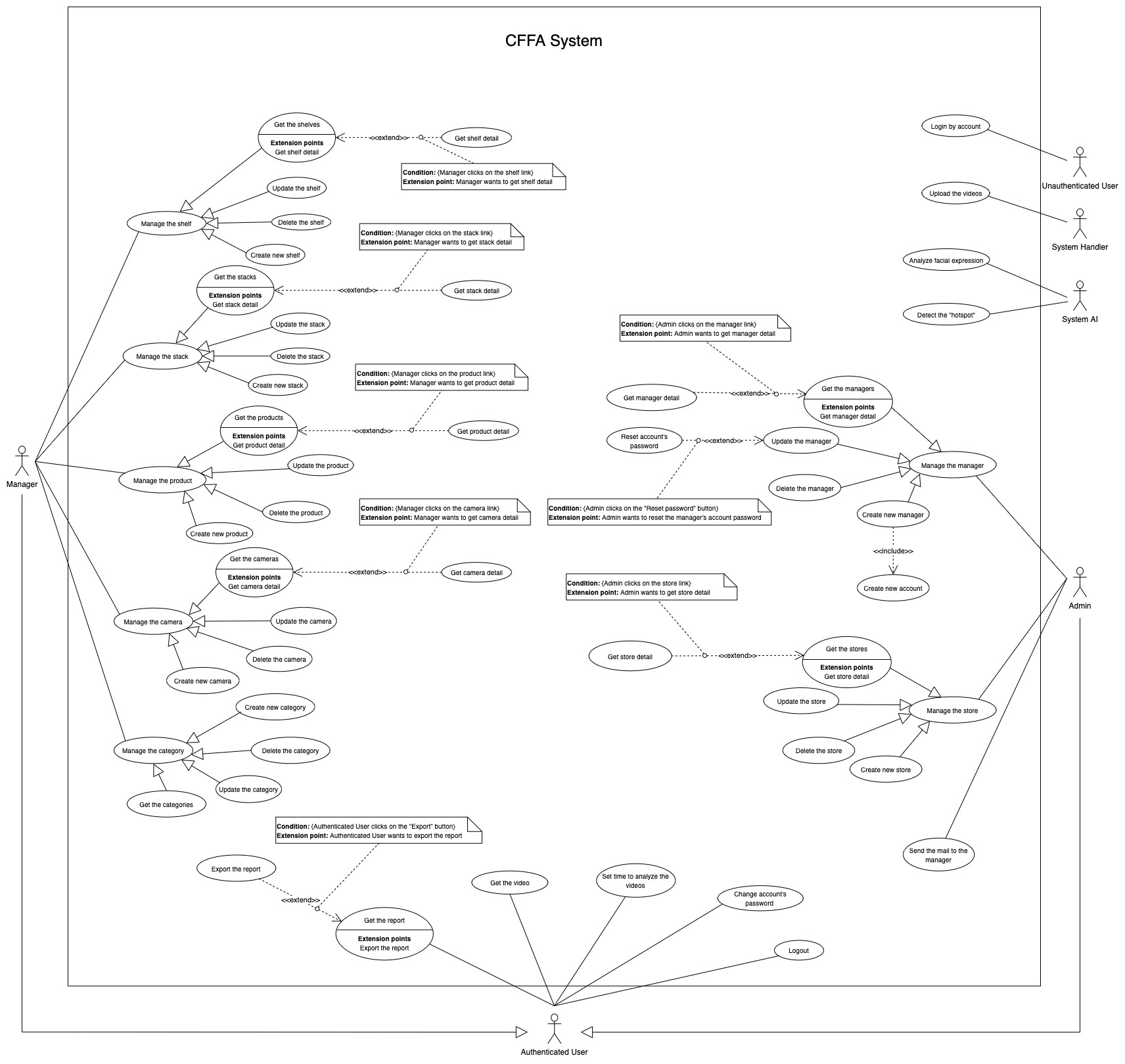
|  |  |
| --- | --- |
| ID | Rule Definition |
| BR-01 | User logs in using username and password are registered. If the username and password are correct, CFFA system redirects users to corresponding home page:   * User logs in as role “manager”, CFFA system will display the manager's home page. * User logs in as role “admin”, CFFA system will display the admin's home page. |
| BR-02 | After logout successfully, user becomes the “Unauthenticated User” and CFFA system will direct to login page. |
| BR-03 | User list contains the following information:   * UserId * Username * Fullname * Email * Avatar * Total applied store * User's active |
| BR-04 | User detail contains the following information:   * UserId * Username * Fullname * Email * Phone * Identify card * Gender * Avatar * Age of birth * Address * User's active * Store list |
| BR-05 | If the searched list is empty, system show "No result". |
| BR-06 | The information for all fields is as follows:   * Username: 6 - 50 characters * Fullname: 6 - 50 characters * Phone: +XX-XXXXXXXX|XXXXXXXXXX|XXX-XXX-XXXX pattern (X - a digit) * Email: @gmail.com, @fpt.edu.vn, @outlook.com * Identify card: 9 - 12 digits * Password: 6 - 20 characters, no special characters * Store name: 6 - 50 characters * Store no: 6 - 50 characters * Brand name: 6 - 50 characters * Hotline: +XX-XXXXXXXX|XXXXXXXXXX|XXX-XXX-XXXX pattern (X - a digit) * Shelf name: 6 - 50 characters * Shelf's position: [Row,Column] * Stack name: 6 - 50 characters * Product code: 6 - 50 characters * Description: 0 - 250 characters * Camera code: 6 - 50 characters * Camera IP address: XXX.XXX.XXX.XXX pattern (X- a digit) * Category name: 6 - 50 characters |
| BR-07 | Download PDF file |
| BR-08 | System stores the entered fields in the following format:  (From hour - To hour, From Day - To Day, From Month - To Month, Store name, Shelf name, Stack name, Product name, Camera name, Type)  Note:   * If the entered field is null, System stores 'null' string. * Type: 1-Emotion, 2-Hotpot, 3-All. |
| BR-09 | Store list contains the following information:   * StoreId * Store name * Store Address * Store Avatar * Total applied shelf |
| BR-10 | Store detail contains the following information:   * StoreId * Store name * Store Address * Store Email * Store Phone * Store Avatar * Date Create * Store's active * Shelf list |
| BR-11 |  |
| BR-12 | Shelf list contains the following information:   * ShelfId * Shelf name * Shelf Position * Store Name * Total applied stack |
| BR-13 | Shelf detail contains the following information:   * ShelfId * Shelf name * Shelf Position * Store Name * Store Position * Date Create * Date Update * Stack list |
| BR-14 | Stack list contains the following information:   * StackId * Stack name * Stack Position * Shelf Name * Store Name * Product Name * Camera Name |
| BR-15 | Stack detail contains the following information:   * StackId * Stack Name * Stack Position * Shelf Name * Shelf Position * Store Name * Store Position * Product Name * Camera Name * Date Create * Date Update |
| BR-16 | Product list contains the following information:   * Product Id * Product Name * Product Type |
| BR-17 | Product detail contains the following information:   * ProductId * Product Name * Product Type * Product Price * Product Avatar * Date Create * Date Update |
| BR-18 | Camera list contains the following information:   * Camera Id * Camera Name * Camera Type |
| BR-19 | Camera detail contains the following information:   * CameraId * Camera Name * Camera Type * Camera Price * Camera Avatar * Date Create * Date Update |

*Table 1 - Business rules*

## 2. User Requirements

### 2.1 Overview

#### Use Case Diagram



*Figure 1 - <Use Case Overview> Overview*

#### System Actors

|  |  |  |
| --- | --- | --- |
| **#** | **Actor** | **Description** |
| 1 | Unauthenticated User | Unauthenticated User is person who has no account. |
| 2 | Authenticated User | Authenticated User is a person who has an account in the system (There are two roles that are admin and manager). |
| 3 | Manager | Manager manages the store's products, shelves, stacks, and cameras. |
| 4 | Admin | Admin manages the managers, accounts, and stores in the system. |
| 5 | System AI | System AI analyzes customers' emotions and detects the "hotspot" in the stores. |

*Table 2 - System actors*

#### Use Case List

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Use Case** | **Primary Actors** | **Secondary Actors** |
| UC-01 | **View all users** | Admin | N/A |
| UC-02 | **View user detail** | Admin | N/A |
| UC-03 | **Search the users** | Admin | N/A |
| UC-04 | **Deactivate a user** | Admin | N/A |
| UC-05 | **Login** | Unauthenticated user | N/A |
| UC-06 | **Register an account** | Unauthenticated user | N/A |
| UC-07 | **Logout** | Customer | Admin |
| UC-08 | **Update the profile** | Authenticated user | N/A |
| UC-09 | **Watch a video** | Customer | N/A |
| UC-10 | **Delete a video** | Customer | N/A |
| UC-11 | **Export the report file** | Customer | N/A |
| UC-12 | **View all stores** | Customer | N/A |
| UC-13 | **View store detail** | Customer | N/A |
| UC-14 | **Search the stores** | Customer | N/A |
| UC-15 | **Create new store** | Customer | N/A |
| UC-16 | **Update the store** | Customer | N/A |
| UC-17 | **Delete the store** | Customer | N/A |
| UC-18 | **View all shelves** | Customer | N/A |
| UC-19 | **View shelf detail** | Customer | N/A |
| UC-20 | **Search the shelves** | Customer | N/A |
| UC-21 | **Create new shelf** | Customer | N/A |
| UC-22 | **Update the shelf** | Customer | N/A |
| UC-23 | **Delete the shelf** | Customer | N/A |
| UC-24 | **View all stacks** | Customer | N/A |
| UC-25 | **View stack detail** | Customer | N/A |
| UC-26 | **Search the stacks** | Customer | N/A |
| UC-27 | **Create new stack** | Customer | N/A |
| UC-28 | **Update the stack** | Customer | N/A |
| UC-29 | **Delete the stack** | Customer | N/A |
| UC-30 | **View all products** | Customer | N/A |
| UC-31 | **View product detail** | Customer | N/A |
| UC-32 | **Search the products** | Customer | N/A |
| UC-33 | **Create new product** | Customer | N/A |
| UC-34 | **Update the product** | Customer | N/A |
| UC-35 | **Delete the product** | Customer | N/A |
| UC-36 | **View all cameras** | Customer | N/A |
| UC-37 | **View camera detail** | Customer | N/A |
| UC-38 | **Search the cameras** | Customer | N/A |
| UC-39 | **Create new camera** | Customer | N/A |
| UC-40 | **Update the camera** | Customer | N/A |
| UC-41 | **Delete the camera** | Customer | N/A |
| UC-42 | **Update the category** | Customer | N/A |
| UC-43 | **Delete the category** | Customer | N/A |
| UC-44 | **View the report** | Customer | N/A |
| UC-45 | **View the report history** | Customer | N/A |
| UC-46 | **Search the users** | Customer | N/A |
| UC-47 | **Approve the user’s request** | Admin | N/A |
| UC-48 | **Send the videos to the server** | Camera | N/A |

*Table 3 - Use case list*

### User case specification



#### 2.2.1 <Unauthenticated User> Overview Use Case



*Figure 2 - <Overview Use Case> Unauthenticated User*

##### 2.2.1.1 <Unauthenticated User> Login by account

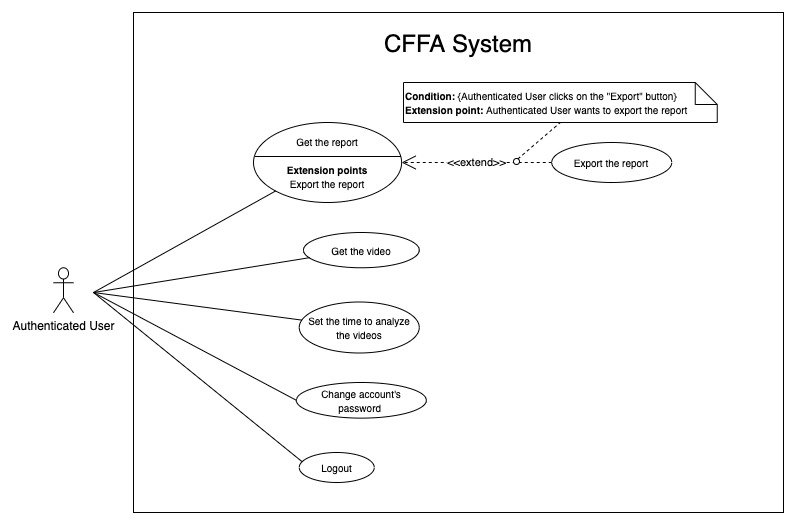


*Figure 3 - <Use Case> Login by account*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-01 Login by account** | | |
| Created By: | TruongTN | Date Created: | 25/01/2021 |
| Primary Actor: | Unauthenticated User | Secondary Actors: | N/A |
| Description: | This feature allows the unauthenticated user to login to CFFA system to verify the role and gives them access to more features. | | |
| Trigger: | Unauthenticated User sends a request to login to CFFA system. | | |
| Pre-conditions: | PRE-01. User's account has been created.  PRE-02. User's account has been authorized as Admin or Manager role.  PRE-03. User has not logged in to CFFA system. | | |
| Post-conditions: | POST-01. User has successfully logged into CFFA system. | | |
| Normal Flow: | **1.0 Login by account**   1. Unauthenticated User send a request to login to the CFFA system. 2. CFFA system requires information from Unauthenticated User:  * “Username”: text input, blank * “Password”: text input, blank  1. Unauthenticated User inputs a login form: username, password. 2. Unauthenticated User clicks to “Login” button. 3. CFFA system validates the username and password. (see 1.0.E1, 1.0.E2) 4. CFFA system determines the user’s identity, role, and permission then redirects to the home page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **1.0.E1 Unauthenticated User does not enter the required fields**   1. CFFA system returns to Unauthenticated User to fill the required fields again (MSG-001, MSG-002). 2. If Unauthenticated User inputs the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Unauthenticated User cancels the login process, then CFFA system terminates this use case.   **1.0.E2 Unauthenticated User enters wrong username or password.**   1. CFFA system returns to Unauthenticated User to fill the required fields again (MSG-003). 2. If Unauthenticated User inputs username and password again, CFFA system returns to step 3 of normal flow. 3. Else if Unauthenticated User cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | High | | |
| Frequency of Use: | Always | | |
| Business Rules: | BR-001, BR-002, BR-003, BR-008, BR-012 | | |
| Other Information: | In case of internet connection failure, Unauthenticated User cannot finish this use case. | | |
| Assumptions: | N/A | | |

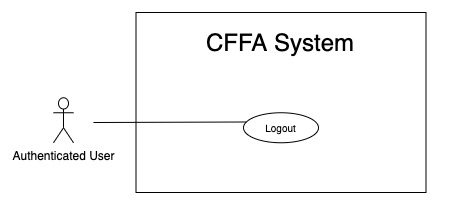
*Table 4 - <Use Case> Login by account*

#### 2.2.2 <Authenticated User> Overview Use Case



*Figure 4 - <Overview Use Case> Authenticated User*

##### 2.2.2.1 <Authenticated User> Logout

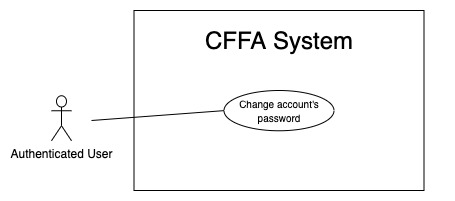


*Figure 5 - <Use Case> Logout*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-02 Logout** | | |
| Created By: | TruongTN | Date Created: | 25/01/2021 |
| Primary Actor: | Authenticated User | Secondary Actors: | N/A |
| Description: | This feature allows Authenticated User to log out from CFFA system. | | |
| Trigger: | Authenticated user sends a request to log out from CFFA system. | | |
| Pre-conditions: | PRE-01. User has logged into CFFA system. | | |
| Post-conditions: | POST-01. User has successfully logged out CFFA system. | | |
| Normal Flow: | **2.0 Logout**   1. Authenticated user clicks on “Logout” button. 2. CFFA system deletes their cookies. 3. CFFA system redirects to "Login" page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-004, BR-005, BR-006 | | |
| Other Information: | In case of internet connection failure, Authenticated User cannot finish this use case. | | |
| Assumptions: | N/A | | |

*Table 5 - <Use Case> Logout*

##### 2.2.2.2 <Authenticated User> Change account's password

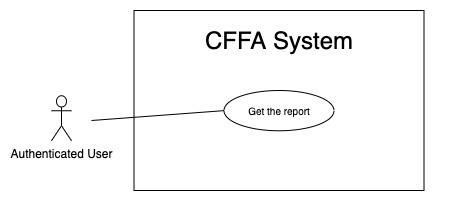


*Figure 6 - <Use Case> Change account's password*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-03 Change account's password** | | |
| Created By: | HuuDN | Date Created: | 10/05/2021 |
| Primary Actor: | Authenticated User | Secondary Actors: | N/A |
| Description: | This feature allows Authenticated User to change the account's password. | | |
| Trigger: | Authenticated User sends a request to change the account's password. | | |
| Pre-conditions: | PRE-01. User has logged into CFFA system. | | |
| Post-conditions: | POST-01. Authenticated User has successfully changed the account's password. | | |
| Normal Flow: | **3.0 Change account's password**   1. Authenticated User sends a request to change the account's password. 2. CFFA system requires information from Authenticated User:  * “Old password”: text input, blank * “New Password”: text input, blank * “Re-enter New Password”: text input, blank  1. Authenticated User inputs a changing password form: old password, new password, and re-enter new password. 2. Authenticated User clicks to "Save" button. 3. CFFA system validates the old password, new password, and re-enter new password. (see 3.0.E1, 3.0.E2) 4. CFFA system will stores changing information. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **3.0.E1 Authenticated User does not enter the required fields**   1. CFFA system returns to Authenticated User to fill the required fields again (MSG-004, MSG-005, MSG-006, MSG-007). 2. If Authenticated User inputs the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Unauthenticated User cancels the login process, then CFFA system terminates this use case.   **3.0.E2 Authenticated User enters the required fields that are not valid**   1. CFFA system returns to Authenticated User to fill the required fields again (MSG-003). 2. If Authenticated User inputs the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Unauthenticated User cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-002, BR-003, BR-007, BR-008, BR-012 | | |
| Other Information: | In case of internet connection failure, Authenticated User cannot finish this use case. | | |
| Assumptions: | N/A | | |

*Table 6 - <Use Case> Change account's password*

##### 2.2.2.3 <Authenticated User> Get the report

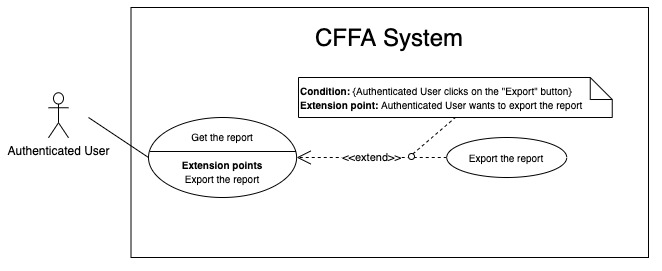


*Figure 7 - <Use Case> Get the report*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-04 Get the report** | | |
| Created By: | HuuDN | Date Created: | 11/05/2021 |
| Primary Actor: | Authenticated User | Secondary Actors: | N/A |
| Description: | This feature allows the Authenticated User to get the report. | | |
| Trigger: | Authenticated User sends a request to get the report. | | |
| Preconditions: | PRE-01. User has logged into CFFA system as admin or manager role. | | |
| Post-conditions: | POST-01. Authenticated User has successfully got the report. | | |
| Normal Flow: | **4.0 Get the report**   1. Authenticated User sends a request to get the report. 2. CFFA system requires the report's information from Authenticated User:  * “Start Time”: text input, blank * “End Time”: text input, blank * “Shelf”: combobox * “Stack”: combobox * “Product”: combobox * “Camera”: combobox * “Analyzed Options”: checkbox * “Time Filter”: checkbox  1. Authenticated User inputs/selects a form: start time, end time, shelf, stack, product, camera, analyzed options, and time filter. 2. CFFA system returns the reports (see 4.0.E1). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **4.0.E1 The report has no data.**   1. CFFA system returns the message (MSG-010). | | |
| Priority: | High | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-013, BR-014, BR-015, BR-016, BR-017, BR-018, BR-019, BR-020, BR-021. | | |
| Other Information: | In case of internet connection failure, Authenticated User cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 7 - <Use Case> Get the report*

##### 2.2.2.4 <Authenticated User> Export the report

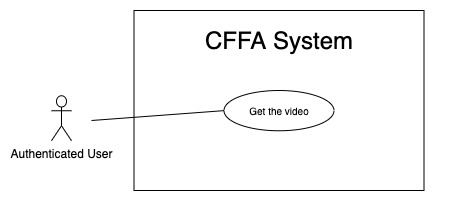


*Figure 8 - <Use Case> Export the report*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-05 Export the report** | | |
| Created By: | HuuDN | Date Created: | 18/01/2021 |
| Primary Actor: | Authenticated User | Secondary Actors: | N/A |
| Description: | This feature allows Authenticated User to export the report. | | |
| Trigger: | Authenticated User sends a request to export the report. | | |
| Preconditions: | PRE-01. User has logged into CFFA system as admin or manager role.  PRE-02. Authenticated User has got the report. | | |
| Post-conditions: | POST-01. Authenticated User has successfully exported the report. | | |
| Normal Flow: | **5.0 Export the report**   1. Authenticated User clicks on "Export" button. 2. CFFA system returns the report file for Authenticated User (see 5.0.E1) | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **5.0.E1 The report has no data**   1. CFFA system returns the message (MSG-010). | | |
| Priority: | High | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-008, BR-009. | | |
| Other Information: | In case of internet connection failure, Authenticated User cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 8 - <Use Case> Export the report*

##### 2.2.2.5 <Authenticated User> Get the video

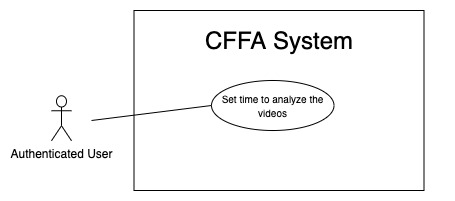


*Figure 9 - <Use Case> Get the video*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-06 Get the video** | | |
| Created By: | HuuDN | Date Created: | 11/05/2021 |
| Primary Actor: | Authenticated User | Secondary Actors: | N/A |
| Description: | This feature allows Authenticated User to get the video. | | |
| Trigger: | Authenticated User sends a request to get the video. | | |
| Preconditions: | PRE-01. User has logged into CFFA system as admin or manager role. | | |
| Post-conditions: | POST-01. Authenticated User has successfully played the video. | | |
| Normal Flow: | **6.0 Get the video**   1. Authenticated User sends a request to get the report. 2. CFFA system requires the report's information from Authenticated User:  * “Start Time”: text input, blank * “End Time”: text input, blank * “Shelf”: combobox * “Stack”: combobox * “Product”: combobox * “Camera”: combobox * “Video Options”: checkbox  1. Authenticated User inputs/selects a form: start time, end time, shelf, stack, product, camera, video options. 2. Authenticated User clicks on "Play" button. 3. CFFA system plays the video (see 6.0.E1). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **6.0.E1 The video has no data to play.**   1. CFFA system returns the message (MSG-011). | | |
| Priority: | High | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-010, BR-011, BR-013, BR-021, BR-022. | | |
| Other Information: | In case of internet connection failure, Authenticated User cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 9 - <Use Case> Get the video*

##### 2.2.2.6 <Authenticated User> Set time to analyze the videos

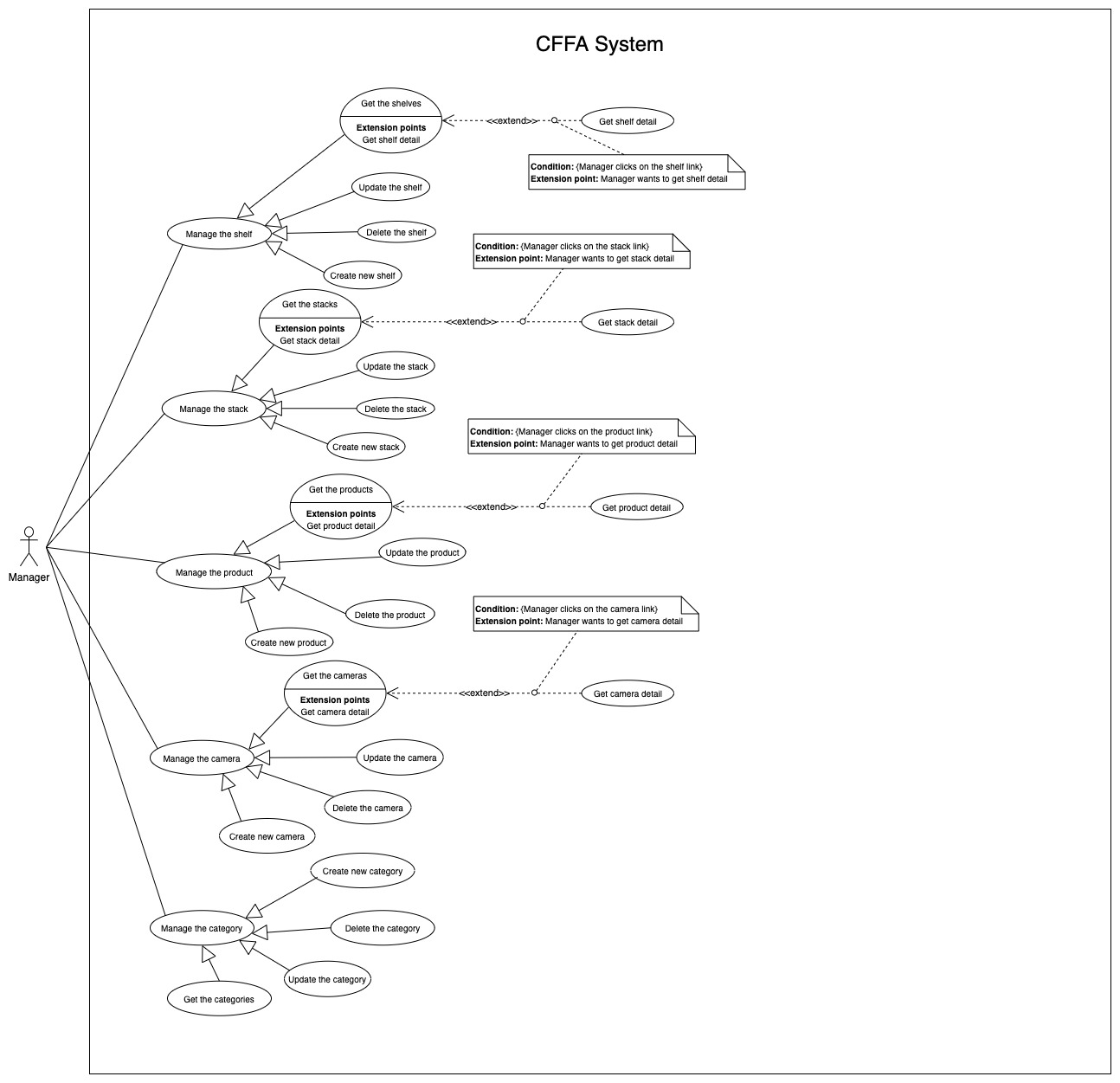


*Figure 10 - <Use Case> Set time to analyze the videos*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-07 Set time to analyze the videos** | | |
| Created By: | HuuDN | Date Created: | 11/05/2021 |
| Primary Actor: | Authenticated User | Secondary Actors: | N/A |
| Description: | This feature allows Authenticated User to set time to analyze the videos. | | |
| Trigger: | Authenticated User sends a request to set time to analyze the video. | | |
| Preconditions: | PRE-01. User has logged into CFFA system as admin or manager role. | | |
| Post-conditions: | POST-01. Authenticated User has successfully got the report. | | |
| Normal Flow: | **7.0 Set time to analyze the videos**   1. Authenticated User sends a request to set time to analyze the videos. 2. CFFA system requires the information from Authenticated User:  * “Set time”: combobox  1. Authenticated User inputs a form: set time 2. Authenticated User clicks on "Save" button. 3. CFFA system stores the time to analyze the videos. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | Rarely | | |
| Business Rules: | BR-023. | | |
| Other Information: | In case of internet connection failure, Authenticated User cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

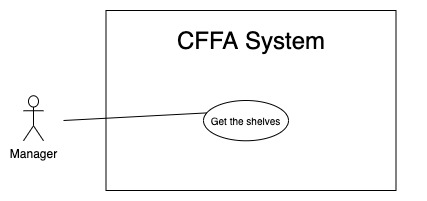
*Table 10 - <Use Case> Set time to analyze the videos*

#### 2.2.3 <Manager> Overview Use Case



*Figure 11 - <Overview Use Case> Manager*

##### 2.2.3.1 <Manager> Get the shelves

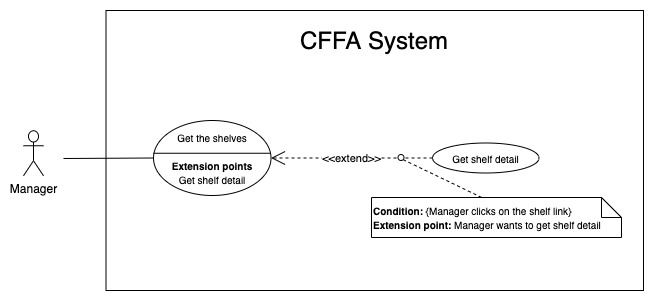


*Figure 12 - <Use Case> Get the shelves*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-08 Get the shelves** | | |
| Created By: | TruongTN | Date Created: | 08/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows manager to get the shelves. | | |
| Trigger: | Manager sends a request to get the shelves. | | |
| Pre-conditions: | PRE-01. User has logged into the system as manager role.  PRE-02. Manager is managing a store. | | |
| Post-conditions: | POST-01. CFFA system returns the list of shelves. | | |
| Normal Flow: | **8.0 Get the shelves**   1. Manager sends a request to get the shelves. 2. CFFA system requires the shelf information from Manager:  * “Name”: text input, blank * “Status”: combobox  1. Manager inputs/selects a form: name and status. 2. Manager clicks on "Search" button. 3. CFFA system returns the shelves based on below conditions and display them (see 8.0.E1). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **8.0.E1 The list of shelves has no data.**   1. CFFA system returns the message (MSG-009). | | |
| Priority: | High | | |
| Frequency of Use: | Usually | | |
| Business Rules: | BR-024, BR-025, BR-026, BR-027 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 11 - <Use Case> Get the shelves*

##### 2.2.3.2 <Manager> Get shelf detail

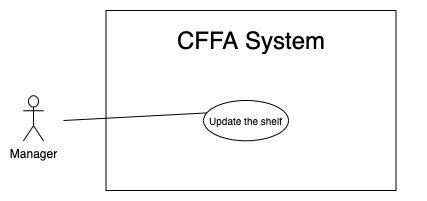


*Figure 13 - <Use Case> Get shelf detail*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-09 Get shelf detail** | | |
| Created By: | TruongTN | Date Created: | 10/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows the Manager to get shelf detail. | | |
| Trigger: | Manager sends a request to get shelf detail. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. There is at least one the shelf link. | | |
| Post-conditions: | POST-01. CFFA system returns shelf information and redirect to shelf detail page. | | |
| Normal Flow: | **9.0 Get shelf detail**   1. Manager clicks on the shelf link. 2. CFFA system validates the shelf exists (see 9.0.E1) 3. CFFA system returns the shelf information and redirects to shelf detail page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **9.0.E1 The shelf does not exist.**  1. CFFA system returns the message (MSG-0012) and terminates this use case. | | |
| Priority: | High | | |
| Frequency of Use: | Usually | | |
| Business Rules: | BR-028 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 12 - <Use Case> Get shelf detail*

##### 2.2.3.3 <Manager> Update the shelf

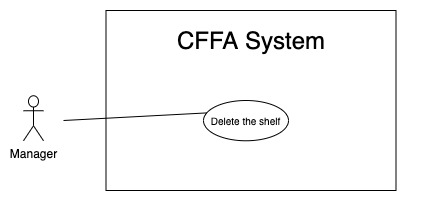


*Figure 14 - <Use Case> Update the shelf*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-10 Update the shelf** | | |
| Created By: | TruongTN | Date Created: | 18/01/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows Manager to update shelf information in CFFA system. | | |
| Trigger: | Manager sends a request to update the shelf. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. Manager is on “Shelf detail” page. | | |
| Post-conditions: | POST-01. CFFA system updates shelf information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **10.0 Update the shelf**   1. Manager sends a request to update the shelf. 2. CFFA system requires shelf information that includes:  * “Shelf name”: input text, blank. * “Description”: input text, blank. * “Maximum of stacks:” input text, blank. * “Status”: combobox. * “Camera”: popup.  1. Manager inputs/selects the required fields. 2. Manager clicks on “Save” button. 3. CFFA system validates the required fields (see 10.0.E1, 10.0.E2) 4. CFFA system updates shelf information and returns the message (MSG-013). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **10.0.E1 Manager does not enter the required fields**   1. CFFA system returns to Manager to fill the required fields again (MSG-014, MSG-016, MSG-018). 2. If Manager inputs the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Manager cancels the login process, then CFFA system terminates this use case.   **10.0.E2 Manager enters the required fields that are not valid**   1. CFFA system returns to Authenticated User to fill the required fields again (MSG-015, MSG-017, MSG-018, MSG-020, MSG-034). 2. If Manager inputs the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Manager cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-029, BR-030, BR-031, BR-032, BR-039 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 13 - <Use Case> Update the shelf*

##### 2.2.3.4 <Manager> Delete the shelf

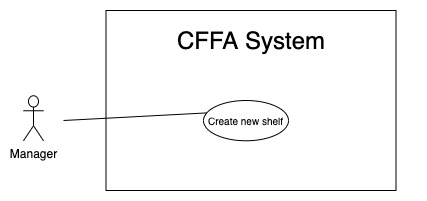


*Figure 15 - <Use Case> Delete the shelf*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-11 Delete the shelf** | | |
| Created By: | TruongTN | Date Created: | 18/01/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows Manager to delete the shelf. | | |
| Trigger: | Manager sends a request to delete the shelf. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. Manager is on “Shelf detail” page. | | |
| Post-conditions: | POST-01. CFFA system updates shelf information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **11.0 Delete the shelf**   1. Manager sends a request to delete the shelf. 2. CFFA system shows delete popup with message: "Are you sure?" and two buttons for Manager can select:  * "Yes" button * "No" button   1. Manager clicks on "Yes" button, CFFA system updates shelf information and returns the message (MSG-021) (see 11.0.E1).   2. Manager clicks on "No" button, close popup and nothing change. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **11.0.E1 The shelf does not exist**   1. CFFA system returns a message (MSG-012). 2. CFFA system redirects to manage shelf page and terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-030, BR-032, BR-033 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 14 - <Use Case> Delete the shelf*

##### 2.2.3.5 <Manager> Create new shelf

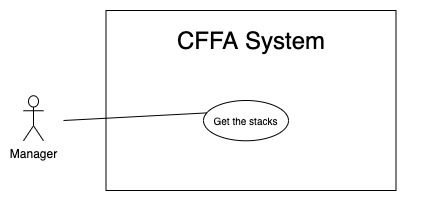


*Figure 16 - <Use Case> Create new shelf*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-12 Create new shelf** | | |
| Created By: | TruongTN | Date Created: | 10/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows Manager to create new shelf. | | |
| Trigger: | Manager sends a request to create new shelf. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. Manager is on “Manage Shelf” page. | | |
| Post-conditions: | POST-01. CFFA system stores newly shelf information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **12.0 Create new shelf**   1. Manager sends a request to create new shelf. 2. CFFA system requires shelf information that includes:  * “Shelf name”: input text, blank. * “Description”: input text, blank. * “Maximum of stacks:” input text, blank.  1. Manager inputs/selects the required fields. 2. Manager clicks on “Create” button. 3. CFFA system validates the required fields (see 12.0.E1, 12.0.E2). 4. CFFA system stores newly shelf information and returns the message (MSG-013). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **12.0.E1 Manager does not enter the required fields**   1. CFFA system returns to Manager to fill the required fields again (MSG-014, MSG-016, MSG-018). 2. If Manager inputs the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Manager cancels the login process, then CFFA system terminates this use case.   **12.0.E2 Manager enters the required fields that are not valid**   1. CFFA system returns to Authenticated User to fill the required fields again (MSG-015, MSG-017, MSG-018, MSG-020, MSG-034). 2. If Manager inputs the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Manager cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-031, BR-034, BR-035 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 15 - <Use Case> Create new shelf*

##### 2.2.3.6 <Manager> Get the stacks

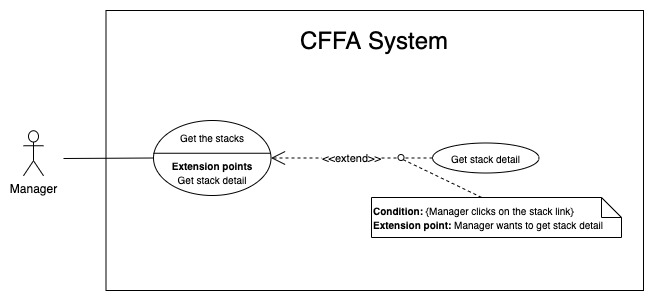


*Figure 17 - <Use Case> Get the stacks*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-13 Get the stacks** | | |
| Created By: | LuanNM | Date Created: | 08/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows manager to get the stacks. | | |
| Trigger: | Manager sends a request to get the stacks. | | |
| Pre-conditions: | PRE-01. User has logged into the system as manager role.  PRE-02. Manager is managing a store. | | |
| Post-conditions: | POST-01. CFFA system returns the list of stacks. | | |
| Normal Flow: | **13.0 Get the stacks**   1. Manager sends a request to get the stacks. 2. CFFA system requires the stack information from Manager:  * “Status”: combobox  1. Manager selects a status. 2. Manager clicks on "Search" button. 3. CFFA system returns the stacks based on below conditions and display them (see 13.0.E1). | | |
| Alternative Flows: | **13.1 Get the stacks on a shelf**   1. Manager clicks on the shelf link to redirect to shelf detail page. 2. CFFA system returns the stacks on the shelf based on below conditions and display them (see 13.0.E1). | | |
| Exceptions: | **13.0.E1 The list of stacks has no data.**   1. CFFA system returns the message (MSG-009). | | |
| Priority: | High | | |
| Frequency of Use: | Usually | | |
| Business Rules: | BR-024, BR-025, BR-036, BR-037 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 16 - <Use Case> Get the stacks*

##### 2.2.3.7 <Manager> Get stack detail

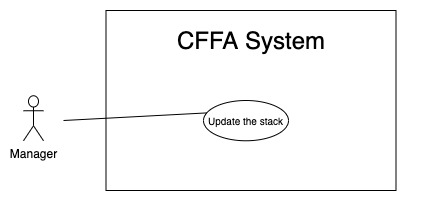


*Figure 18 - <Use Case> Get stack detail*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-14 Get stack detail** | | |
| Created By: | LuanNM | Date Created: | 10/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows the Manager to getstackdetail. | | |
| Trigger: | Manager sends a request to get stack detail. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. There is at least one the stack link. | | |
| Post-conditions: | POST-01. CFFA system returns stack information and redirect to stack detail page. | | |
| Normal Flow: | **14.0 Get stack detail**   1. Manager clicks on the stack link. 2. CFFA system validates the stack exists (see 14.0.E1) 3. CFFA system returns the stack information and redirects to stack detail page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **14.0.E1 The stack does not exist.**  1. CFFA system returns the message (MSG-0022) and terminates this use case. | | |
| Priority: | High | | |
| Frequency of Use: | Usually | | |
| Business Rules: | BR-038 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 17 - <Use Case> Get stack detail*

##### 2.2.3.8 <Manager> Update the stack

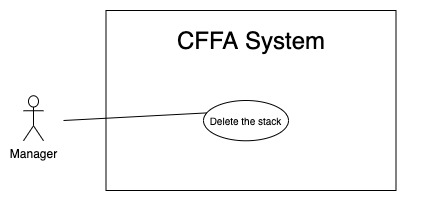


*Figure 19 - <Use Case> Update the stack*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-15 Update the stack** | | |
| Created By: | LuanNM | Date Created: | 18/01/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows Manager to update stack information in CFFA system. | | |
| Trigger: | Manager sends a request to update the stack. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. Manager is on “Stack detail” page. | | |
| Post-conditions: | POST-01. CFFA system updates stack information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **15.0 Update the stack**   1. Manager sends a request to update the stack. 2. CFFA system requires stack information that includes:  * “Product”: popup. * “Camera”: popup. * “Status”: combobox.  1. Manager selects the fields. 2. Manager clicks on “Save” button. 3. CFFA system validates the fields (see 15.0.E1) 4. CFFA system updates stack information and returns the message (MSG-013). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **15.0.E1 Manager inputs/selects the fields that are not valid**   1. CFFA system returns to Manager to input/select the fields again (MSG-023, MSG-024). 2. If Manager selects the fields again, CFFA system returns to step 3 of normal flow. 3. Else if Manager cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-032, BR-039, BR-040, BR-041, BR-042 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 18 - <Use Case> Update the stack*

##### 2.2.3.9 <Manager> Delete the stack

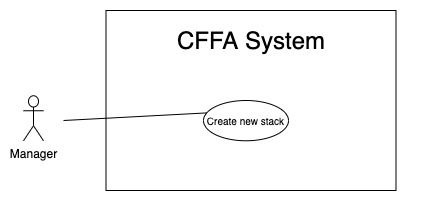


*Figure 20 - <Use Case> Delete the shelf*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-16 Delete the stack** | | |
| Created By: | LuanNM | Date Created: | 10/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows Manager to delete the stack. | | |
| Trigger: | Manager sends a request to delete the stack. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. Manager is on “Stack detail” page. | | |
| Post-conditions: | POST-01. CFFA system updates stack information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **16.0 Delete the stack**   1. Manager sends a request to delete the stack. 2. CFFA system shows delete popup with message: "Are you sure?" and two buttons for Manager can select:  * "Yes" button * "No" button   1. Manager clicks on "Yes" button, CFFA system updates stack information and returns the message (MSG-021) (see 11.0.E1).   2. Manager clicks on "No" button, close popup and nothing change. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **16.0.E1 The stack does not exist**   1. CFFA system returns a message (MSG-022). 2. CFFA system redirects to manage stack page and terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-032, BR-033, BR-041 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 19 - <Use Case> Delete the stack*

##### 2.2.3.10 <Manager> Create new stack

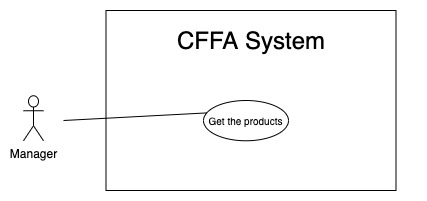


*Figure 21 - <Use Case> Create new stack*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-17 Create new stack** | | |
| Created By: | LuanNM | Date Created: | 10/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows Manager to create new stack. | | |
| Trigger: | Manager sends a request to create new stack. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. Manager is on “Shelf detail” page.  PRE-03. This shelf has total of stacks less than maximum of stacks. | | |
| Post-conditions: | POST-01. CFFA system stores newly created stack information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **17.0 Create new stack**   1. Manager sends a request to create new stack. 2. CFFA system stores newly created stack information and returns the message (MSG-013) (see 17.0.E1). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **17.0.E1 The shelf is full**   1. CFFA system returns a message (MSG-025) and terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-035, BR-043, BR-50 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 20 - <Use Case> Create new stack*

##### 2.2.3.11 <Manager> Get the products

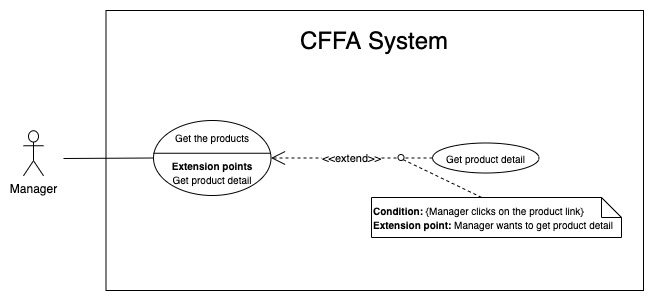


*Figure 22 - <Use Case> Get the products*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-18 Get the products** | | |
| Created By: | HieuNT | Date Created: | 08/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows manager to get the products. | | |
| Trigger: | Manager sends a request to get the products. | | |
| Pre-conditions: | PRE-01. User has logged into the system as manager role.  PRE-02. Manager is managing a store. | | |
| Post-conditions: | POST-01. CFFA system returns the list of products. | | |
| Normal Flow: | **18.0 Get the products**   1. Manager sends a request to get the products. 2. CFFA system requires the product information from Manager:  * “Product name”: input text, blank * “Category”: combobox * “Status”: combobox  1. Manager inputs/selects the fields: product name, category, status. 2. Manager clicks on "Search" button. 3. CFFA system returns the list of products based on below conditions and display them (see 18.0.E1). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **18.0.E1 The list of product has no data.**   1. CFFA system returns the message (MSG-009). | | |
| Priority: | High | | |
| Frequency of Use: | Usually | | |
| Business Rules: | BR-024, BR-025, BR-044, BR-045 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 21 - <Use Case> Get the products*

##### 2.2.3.7 <Manager> Get product detail

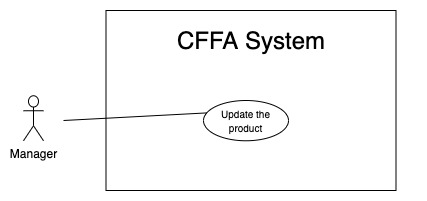


*Figure 23 - <Use Case> Get product detail*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-19 Get product detail** | | |
| Created By: | HieuNT | Date Created: | 10/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows the Manager to getproductdetail. | | |
| Trigger: | Manager sends a request to get product detail. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. There is at least one the product link. | | |
| Post-conditions: | POST-01. CFFA system returns product information and redirect to product detail page. | | |
| Normal Flow: | **19.0 Get product detail**   1. Manager clicks on the product link. 2. CFFA system validates the product exists (see 19.0.E1) 3. CFFA system returns the product information and redirects to product detail page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **19.0.E1 The stack does not exist.**  1. CFFA system returns the message (MSG-0023) and terminates this use case. | | |
| Priority: | High | | |
| Frequency of Use: | Usually | | |
| Business Rules: | BR-046 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table22 - <Use Case> Get product detail*

##### 2.2.3.13 <Manager> Update the product

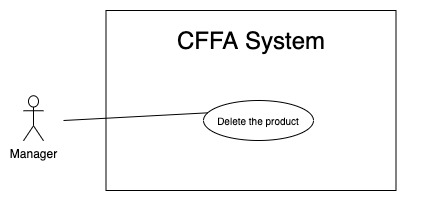


*Figure 24 - <Use Case> Update the product*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-20 Update the product** | | |
| Created By: | HieuNT | Date Created: | 18/01/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows Manager to update product information in CFFA system. | | |
| Trigger: | Manager sends a request to update the product. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. Manager is on “Product detail” page. | | |
| Post-conditions: | POST-01. CFFA system updates product information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **20.0 Update the product**   1. Manager sends a request to update the product. 2. CFFA system requires product information that includes:  * “Product Name”: input text * “Image”: button * “Category”: combobox * “Description”: input text * “Status”: combobox.  1. Manager inputs/selects the required fields. 2. Manager clicks on “Save” button. 3. CFFA system validates the fields (see 20.0.E1, 20.0.E2) 4. CFFA system updates product information and returns the message (MSG-013). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **20.0.E1 Manager does not input/select the required fields**   1. CFFA system returns to Manager to input/select the required fields again (MSG-014, MSG-016, MSG-026, MSG-028). 2. If Manager inputs/selects the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Manager cancels the login process, then CFFA system terminates this use case.   **20.0.E2 Manager inputs/selects the fields that are not valid**   1. CFFA system returns to Manager to input/select the fields again (MSG-015, MSG-017, MSG-027, MSG-029, MSG-034). 2. If Manager inputs/selects the fields again, CFFA system returns to step 3 of normal flow.MSG 3. Else if Manager cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-032, BR-047, BR-048, BR-049 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 13 - <Use Case> Update the product*

##### 2.2.3.14 <Manager> Delete the product

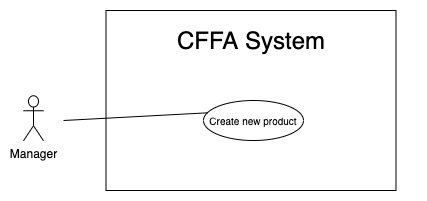


*Figure 24 - <Use Case> Delete the product*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-21 Delete the product** | | |
| Created By: | HieuNT | Date Created: | 10/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows Manager to delete the product. | | |
| Trigger: | Manager sends a request to delete the product. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. Manager is on “Product detail” page. | | |
| Post-conditions: | POST-01. CFFA system updates product information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **21.0 Delete the product**   1. Manager sends a request to delete the product. 2. CFFA system shows delete popup with message: "Are you sure?" and two buttons for Manager can select:  * "Yes" button * "No" button   1. Manager clicks on "Yes" button, CFFA system updates product information and returns the message (MSG-021) (see 21.0.E1).   2. Manager clicks on "No" button, close popup and nothing change. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **21.E1 The product does not exist**   1. CFFA system returns a message (MSG-023). 2. CFFA system redirects to manage product page and terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-032, BR-033, BR-049 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 24 - <Use Case> Delete the product*

##### 2.2.3.15 <Manager> Create new product

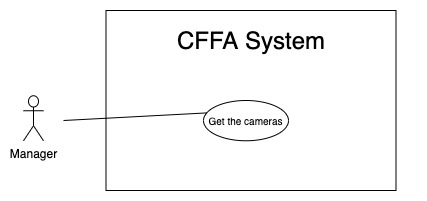


*Figure 26 - <Use Case> Create new product*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-22 Create new product** | | |
| Created By: | HieuNT | Date Created: | 10/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows Manager to create new product. | | |
| Trigger: | Manager sends a request to create new product. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. Manager is on “Manage product” page. | | |
| Post-conditions: | POST-01. CFFA system stores newly created product information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **22.0 Create new product**   1. Manager sends a request to create new product. 2. CFFA system requires the product information:    * "Product name": input text, blank    * "Description": input text, blank    * "Category": combobox    * "Image": button 3. Manager inputs/selects the required fields. 4. Manager clicks on the "Create" button to create new product. 5. CFFA system validates the required fields (see 22.0.E1, 22.0.E2) 6. CFFA system stores newly created product information and returns the message (MSG-013). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **22.0.E1 Manager does not input/select the required fields**   1. CFFA system returns to Manager to input/select the required fields again (MSG-014, MSG-016, MSG-026, MSG-028). 2. If Manager inputs/selects the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Manager cancels the login process, then CFFA system terminates this use case.   **22.0.E1 Manager inputs/selects the fields that are not valid**   1. CFFA system returns to Manager to input/select the fields again (MSG-015, MSG-017, MSG-027, MSG-029, MSG-034). 2. If Manager inputs/selects the fields again, CFFA system returns to step 3 of normal flow. 3. Else if Manager cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-035, BR-051 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 25 - <Use Case> Create new product*

##### 2.2.3.16 <Manager> Get the cameras

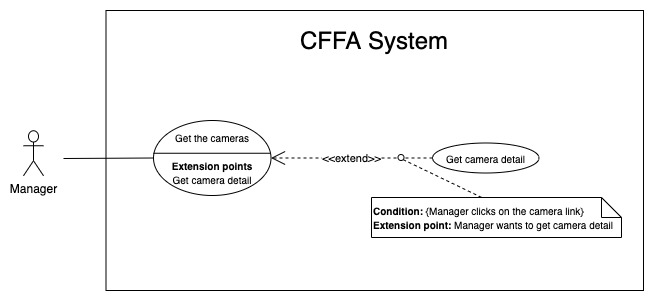


*Figure 27 - <Use Case> Get the cameras*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-23 Get the cameras** | | |
| Created By: | HuuDN | Date Created: | 08/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows manager to get the cameras. | | |
| Trigger: | Manager sends a request to get the cameras. | | |
| Pre-conditions: | PRE-01. User has logged into the system as manager role.  PRE-02. Manager is managing a store. | | |
| Post-conditions: | POST-01. CFFA system returns the list of cameras. | | |
| Normal Flow: | **23.0 Get the cameras**   1. Manager sends a request to get the cameras. 2. CFFA system requires the camera information from Manager:  * “Camera name”: input text, blank * “Status”: combobox  1. Manager inputs/selects the fields: product name, status. 2. Manager clicks on "Search" button. 3. CFFA system returns the list of products based on below conditions and display them (see 23.0.E1). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **23.0.E1 The list of cameras has no data.**   1. CFFA system returns the message (MSG-009). | | |
| Priority: | High | | |
| Frequency of Use: | Usually | | |
| Business Rules: | BR-024, BR-025, BR-052, BR-053 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 26 - <Use Case> Get the products*

##### 2.2.3.17 <Manager> Get camera detail

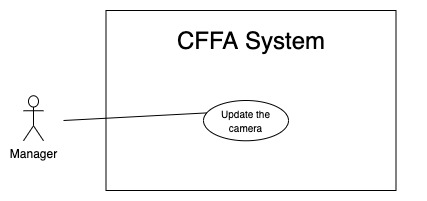


*Figure 28 - <Use Case> Get camera detail*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-24 Get camera detail** | | |
| Created By: | HuuDN | Date Created: | 10/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows the Manager to getcameradetail. | | |
| Trigger: | Manager sends a request to get camera detail. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. There is at least one the camera link. | | |
| Post-conditions: | POST-01. CFFA system returns camera information and redirect to camera detail page. | | |
| Normal Flow: | **24.0 Get product detail**   1. Manager clicks on the camera link. 2. CFFA system validates the camera exists (see 24.0.E1) 3. CFFA system returns the camera information and redirects to camera detail page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **24.0.E1 The camera does not exist.**  1. CFFA system returns the message (MSG-0024) and terminates this use case. | | |
| Priority: | High | | |
| Frequency of Use: | Usually | | |
| Business Rules: | BR-054 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 27 - <Use Case> Get camera detail*

##### 2.2.3.18 <Manager> Update the camera

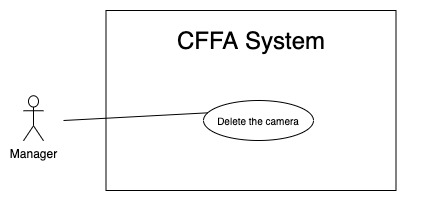


*Figure 29 - <Use Case> Update the camera*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-25 Update the camera** | | |
| Created By: | HuuDN | Date Created: | 18/01/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows Manager to update camera information in CFFA system. | | |
| Trigger: | Manager sends a request to update the camera. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. Manager is on “Camera detail” page. | | |
| Post-conditions: | POST-01. CFFA system updates camera information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **25.0 Update the camera**   1. Manager sends a request to update the camera. 2. CFFA system requires camera information that includes:  * “Camera Name”: input text * “Image”: button * “IP address”: input text * “RTSP string”: input text * “Status”: combobox.  1. Manager inputs/selects the required fields. 2. Manager clicks on “Save” button. 3. CFFA system validates the fields (see 25.0.E1, 25.0.E2) 4. CFFA system updates camera information and returns the message (MSG-013). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **25.0.E1 Manager does not input/select the required fields**   1. CFFA system returns to Manager to input/select the required fields again (MSG-014, MSG-026, MSG-028, MSG-031). 2. If Manager inputs/selects the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Manager cancels the login process, then CFFA system terminates this use case.   **25.0.E2 Manager inputs/selects the fields that are not valid**   1. CFFA system returns to Manager to input/select the fields again (MSG-015, MSG-027, MSG-029, MSG-032, MSG-034). 2. If Manager inputs/selects the fields again, CFFA system returns to step 3 of normal flow.MSG 3. Else if Manager cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-032, BR-055, BR-056, BR-57, BR-60 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 28 - <Use Case> Update the product*

##### 2.2.3.19 <Manager> Delete the camera

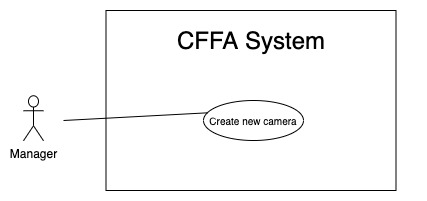


*Figure 29 - <Use Case> Delete the camera*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-26 Delete the camera** | | |
| Created By: | HuuDN | Date Created: | 10/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows Manager to delete the camera. | | |
| Trigger: | Manager sends a request to delete the camera. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. Manager is on “Camera detail” page. | | |
| Post-conditions: | POST-01. CFFA system updates camera information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **26.0 Delete the camera**   1. Manager sends a request to delete the camera. 2. CFFA system shows delete popup with message: "Are you sure?" and two buttons for Manager can select:  * "Yes" button * "No" button   1. Manager clicks on "Yes" button, CFFA system updates camera information and returns the message (MSG-021) (see 26.0.E1).   2. Manager clicks on "No" button, close popup and nothing change. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **26.E1 The camera does not exist**   1. CFFA system returns a message (MSG-024). 2. CFFA system redirects to manage camera page and terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-032, BR-033, BR-058 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 24 - <Use Case> Delete the product*

##### 2.2.3.20 <Manager> Create new camera

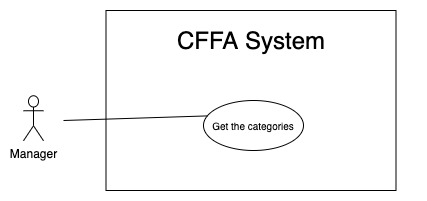


*Figure 30 - <Use Case> Create new camera*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-27 Create new product** | | |
| Created By: | HuuDN | Date Created: | 10/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows Manager to create new camera. | | |
| Trigger: | Manager sends a request to create new camera. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. Manager is on “Manage camera” page. | | |
| Post-conditions: | POST-01. CFFA system stores newly created camera information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **27.0 Create new camera**   1. Manager sends a request to create new camera. 2. CFFA system requires the camera information:    * "Camera name": input text, blank    * "Image": button    * "Ip address": input text, blank    * "RPST string": input text, blank 3. Manager inputs/selects the required fields. 4. Manager clicks on the "Create" button to create new camera. 5. CFFA system validates the required fields (see 27.0.E1, 27.0.E2). 6. CFFA system stores newly created camera information and returns the message (MSG-013). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **27.0.E1 Manager does not input/select the required fields**   1. CFFA system returns to Manager to input/select the required fields again (MSG-014, MSG-026, MSG-028, MSG-031). 2. If Manager inputs/selects the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Manager cancels the login process, then CFFA system terminates this use case.   **27.0.E1 Manager inputs/selects the fields that are not valid**   1. CFFA system returns to Manager to input/select the fields again (MSG-015, MSG-027, MSG-029, MSG-032, MSG-034). 2. If Manager inputs/selects the fields again, CFFA system returns to step 3 of normal flow. 3. Else if Manager cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-035, BR-055, BR-059, BR-060 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 30 - <Use Case> Create new camera*

##### 2.2.3.21 <Manager> Get the categories

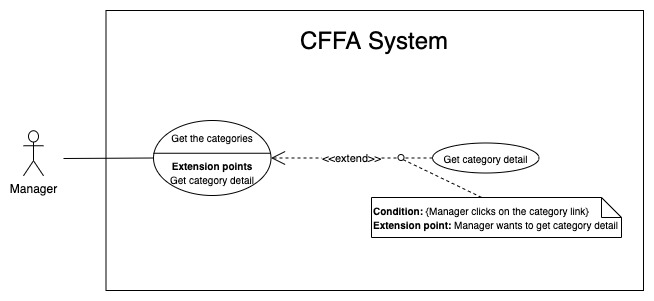


*Figure 32 - <Use Case> Get the categories*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-28 Get the categories** | | |
| Created By: | TruongTN | Date Created: | 08/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows manager to get the categories. | | |
| Trigger: | Manager sends a request to get the categories. | | |
| Pre-conditions: | PRE-01. User has logged into the system as manager role.  PRE-02. Manager is managing a store. | | |
| Post-conditions: | POST-01. CFFA system returns the list of categories. | | |
| Normal Flow: | **28.0 Get the categories**   1. Manager sends a request to get the categories. 2. CFFA system requires the camera information from Manager:  * “Category name”: input text, blank  1. Manager inputs/selects the fields: category name 2. Manager clicks on "Search" button. 3. CFFA system returns the list of products based on below conditions and display them (see 28.0.E1). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **28.0.E1 The list of categories has no data.**   1. CFFA system returns the message (MSG-009). | | |
| Priority: | High | | |
| Frequency of Use: | Usually | | |
| Business Rules: | BR-024, BR-025, BR-061 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 31 - <Use Case> Get the categories*

##### 2.2.3.22 <Manager> Get category detail

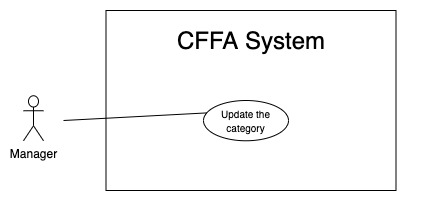


*Figure 33 - <Use Case> Get category detail*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-29 Get category detail** | | |
| Created By: | HuuDN | Date Created: | 10/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows the Manager to getcategorydetail. | | |
| Trigger: | Manager sends a request to get categorydetail. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. There is at least one the categorylink. | | |
| Post-conditions: | POST-01. CFFA system returns categoryinformation and redirect to categorydetail page. | | |
| Normal Flow: | **29.0 Get product detail**   1. Manager clicks on the categorylink. 2. CFFA system validates the categoryexists (see 24.0.E1) 3. CFFA system returns the categoryinformation and redirects to categorydetail page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **29.0.E1 The category does not exist.**  1. CFFA system returns the message (MSG-0033) and terminates this use case. | | |
| Priority: | High | | |
| Frequency of Use: | Usually | | |
| Business Rules: | BR-062 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 32 - <Use Case> Get camera detail*

##### 2.2.3.22 <Manager> Update the category

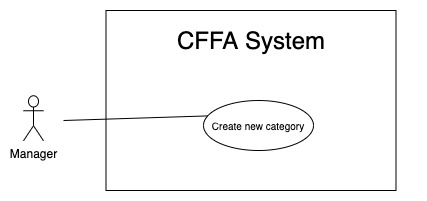


*Figure 33 - <Use Case> Update the category*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-30 Update the category** | | |
| Created By: | HuuDN | Date Created: | 18/01/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows Manager to update category information in CFFA system. | | |
| Trigger: | Manager sends a request to update the category. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. Manager is on “Category detail” page. | | |
| Post-conditions: | POST-01. CFFA system updates category information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **30.0 Update the category**   1. Manager sends a request to update the camera. 2. CFFA system requires category information that includes:  * “Category Name”: input text  1. Manager inputs/selects the required fields. 2. Manager clicks on “Save” button. 3. CFFA system validates the fields (see 30.0.E1, 30.0.E2) 4. CFFA system updates camera information and returns the message (MSG-013). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **30.0.E1 Manager does not input/select the required fields**   1. CFFA system returns to Manager to input/select the required fields again (MSG-014). 2. If Manager inputs/selects the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Manager cancels the login process, then CFFA system terminates this use case.   **30.0.E2 Manager inputs/selects the fields that are not valid**   1. CFFA system returns to Manager to input/select the fields again (MSG-015, MSG-034). 2. If Manager inputs/selects the fields again, CFFA system returns to step 3 of normal flow.MSG 3. Else if Manager cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-063 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 33 - <Use Case> Update the product*

##### 2.2.3.20 <Manager> Create new category



*Figure 35 - <Use Case> Create new category*

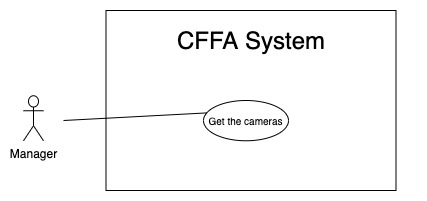
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-31 Create new category** | | |
| Created By: | TruongTN | Date Created: | 10/05/2021 |
| Primary Actor: | Manager | Secondary Actors: | N/A |
| Description: | This feature allows Manager to create new category. | | |
| Trigger: | Manager sends a request to create new category. | | |
| Preconditions: | PRE-01. User has logged in the system as manager role.  PRE-02. Manager is on “Manage category” page. | | |
| Post-conditions: | POST-01. CFFA system stores newly created category information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **31.0 Create new camera**   1. Manager sends a request to create new category. 2. CFFA system requires the category information:    * "Category name": input text, blank 3. Manager inputs the required fields. 4. Manager clicks on the "Create" button to create new category. 5. CFFA system validates the required fields (see 31.0.E1, 31.0.E2). 6. CFFA system stores newly created category information and returns the message (MSG-013). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **31.0.E1 Manager does not input/select the required fields**   1. CFFA system returns to Manager to input the required fields again (MSG-014). 2. If Manager inputs/selects the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Manager cancels the login process, then CFFA system terminates this use case.   **31.0.E1 Manager inputs the fields that are not valid**   1. CFFA system returns to Manager to input the fields again (MSG-015, MSG-034). 2. If Manager inputs the fields again, CFFA system returns to step 3 of normal flow. 3. Else if Manager cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-063 | | |
| Other Information: | In case of internet connection failure, Manager cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 31 - <Use Case> Create new category*

#### 2.2.4 <Admin> Overview Use Case

*Figure 36 - <Use Case> Get the cameras*

##### 2.2.4.1 <Admin> Get the stores



*Figure 37 - <Use Case> Get the stores*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-32 Get the stores** | | |
| Created By: | LuanNM | Date Created: | 08/05/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This feature allows admin to get the stores. | | |
| Trigger: | Admin sends a request to get the stores. | | |
| Pre-conditions: | PRE-01. User has logged into the system as admin role. | | |
| Post-conditions: | POST-01. CFFA system returns the list of stores. | | |
| Normal Flow: | **32.0 Get the stores**   1. Admin sends a request to get the stores. 2. CFFA system requires the store information from Admin:  * “Store name”: input text, blank * “City”: combobox * “District”: combobox * “Status”: combobox  1. Admin inputs/selects the fields: Store name, city, district, and status. 2. Admin clicks on "Search" button. 3. CFFA system returns the list of stores based on below conditions and display them (see 32.0.E1). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **32.0.E1 The list of stores has no data.**   1. CFFA system returns the message (MSG-009). | | |
| Priority: | High | | |
| Frequency of Use: | Usually | | |
| Business Rules: | BR-024, BR-025, BR-064, BR-065 | | |
| Other Information: | In case of internet connection failure, Admin cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 35 - <Use Case> Get the stores*

##### 2.2.4.2 <Admin> Get store detail

*Figure 38 - <Use Case> Get store detail*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-33 Get store detail** | | |
| Created By: | LuanNM | Date Created: | 10/05/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This feature allows the admin to getstoredetail. | | |
| Trigger: | Admin sends a request to get store detail. | | |
| Preconditions: | PRE-01. User has logged in the system as admin role.  PRE-02. There is at least one the store link. | | |
| Post-conditions: | POST-01. CFFA system returns stores information and redirect to store detail page. | | |
| Normal Flow: | **33.0 Get store detail**   1. Admin clicks on the admin link. 2. CFFA system validates the admin exists (see 33.0.E1) 3. CFFA system returns the stores information and redirects to store detail page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **33.0.E1 The stores does not exist.**  1. CFFA system returns the message (MSG-035) and terminates this use case. | | |
| Priority: | High | | |
| Frequency of Use: | Usually | | |
| Business Rules: | BR-066 | | |
| Other Information: | In case of internet connection failure, Admin cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 36 - <Use Case> Get camera detail*

##### 2.2.4.3 <Admin> Update the store

*Figure 39 - <Use Case> Update the store*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-34 Update the store** | | |
| Created By: | LuanNM | Date Created: | 18/01/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This feature allows Admin to update store information in CFFA system. | | |
| Trigger: | Admin sends a request to update the store. | | |
| Preconditions: | PRE-01. User has logged in the system as admin role.  PRE-02. Admin is on “Store detail” page. | | |
| Post-conditions: | POST-01. CFFA system updates store information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **34.0 Update the store**   1. Admin sends a request to update the store. 2. CFFA system requires store information that includes:  * “Store Name”: input text * “Image”: button * “Address”: input text * “City”: combobox * “District”: combobox * “Status”: combobox.  1. Admin inputs/selects the required fields. 2. Admin clicks on “Save” button. 3. CFFA system validates the fields (see 34.0.E1, 34.0.E2) 4. CFFA system updates store information and returns the message (MSG-013). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **34.0.E1 Admin does not input/select the required fields**   1. CFFA system returns to Admin to input/select the required fields again (MSG-014, MSG-026, MSG-036, MSG-038, MSG-039). 2. If Admin inputs/selects the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Admin cancels the login process, then CFFA system terminates this use case.   **34.0.E2 Admin inputs/selects the fields that are not valid**   1. CFFA system returns to Manager to input/select the fields again (MSG-015, MSG-027, MSG-037, MSG-034). 2. If Admin inputs/selects the fields again, CFFA system returns to step 3 of normal flow.MSG 3. Else if Admin cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-032, BR-055, BR-067, BR-68, BR-69 | | |
| Other Information: | In case of internet connection failure, Admin cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 37 - <Use Case> Update the store*

##### 2.2.4.4 <Admin> Delete the store

*Figure 40 - <Use Case> Delete the store*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-35 Delete the store** | | |
| Created By: | LuanNM | Date Created: | 10/05/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This feature allows Admin to delete the store. | | |
| Trigger: | Admin sends a request to delete the store. | | |
| Preconditions: | PRE-01. User has logged in the system as admin role.  PRE-02. Admin is on “Store detail” page. | | |
| Post-conditions: | POST-01. CFFA system updates store information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **35.0 Delete the store**   1. Admin sends a request to delete the camera. 2. CFFA system shows delete popup with message: "Are you sure?" and two buttons for Admin can select:  * "Yes" button * "No" button   1. Admin clicks on "Yes" button, CFFA system updates store information and returns the message (MSG-021) (see 26.0.E1).   2. Admin clicks on "No" button, close popup and nothing change. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **26.E1 The store does not exist**   1. CFFA system returns a message (MSG-035). 2. CFFA system redirects to manage store page and terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-032, BR-033, BR-069 | | |
| Other Information: | In case of internet connection failure, Admin cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 38 - <Use Case> Delete the store*

##### 2.2.4.5 <Admin> Create new store

*Figure 41 - <Use Case> Create new store*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-36 Create new store** | | |
| Created By: | LuanNM | Date Created: | 10/05/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This feature allows Admin to create new store. | | |
| Trigger: | Admin sends a request to create new store. | | |
| Preconditions: | PRE-01. User has logged in the system as admin role.  PRE-02. Admin is on “Manage store” page. | | |
| Post-conditions: | POST-01. CFFA system stores newly created store information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **36.0 Create new store**   1. Store sends a request to create new store. 2. CFFA system requires the store information:    * "Store name": input text, blank    * "Image": button    * "Address": input text    * "City": combobox    * "District": combobox 3. Admin inputs/selects the required fields. 4. Admin clicks on the "Create" button to create new store. 5. CFFA system validates the required fields (see 36.0.E1, 36.0.E2). 6. CFFA system stores newly created camera information and returns the message (MSG-013). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **36.0.E1 Admin does not input/select the required fields**   1. CFFA system returns to Admin to input/select the required fields again (MSG-014, MSG-026, MSG-036, MSG-038, MSG-39). 2. If Admin inputs/selects the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Admin cancels the login process, then CFFA system terminates this use case.   **36.0.E1 Admin** **inputs/selects the fields that are not valid**   1. CFFA system returns to Admin to input/select the fields again (MSG-015, MSG-027, MSG-034, MSG-037). 2. If Admin inputs/selects the fields again, CFFA system returns to step 3 of normal flow. 3. Else if Admin cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-035, BR-067, BR-070 | | |
| Other Information: | In case of internet connection failure, Admin cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 39 - <Use Case> Create new store*

##### 2.2.4.6 <Admin> Get the managers

*Figure 37 - <Use Case> Get the stores*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-37 Get the managers** | | |
| Created By: | HieuNT | Date Created: | 08/05/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This feature allows admin to get the managers. | | |
| Trigger: | Admin sends a request to get the managers. | | |
| Pre-conditions: | PRE-01. User has logged into the system as admin role. | | |
| Post-conditions: | POST-01. CFFA system returns the list of stores. | | |
| Normal Flow: | **37.0 Get the managers**   1. Admin sends a request to get the managers. 2. CFFA system requires the manager information from Admin:  * “Employee code”: input text, blank * “Manager name”: input text, blank * “Username”: input text, blank * “Status”: combobox  1. Admin inputs/selects the fields: Manager name, and status. 2. Admin clicks on "Search" button. 3. CFFA system returns the list of stores based on below conditions and display them (see 37.0.E1). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **37.0.E1 The list of managers has no data.**   1. CFFA system returns the message (MSG-009). | | |
| Priority: | High | | |
| Frequency of Use: | Usually | | |
| Business Rules: | BR-024, BR-025, BR-071, BR-072 | | |
| Other Information: | In case of internet connection failure, Admin cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 40 - <Use Case> Get the managers*

##### 2.2.4.7 <Admin> Get manager detail

*Figure 43 - <Use Case> Get store detail*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-38 Get manager detail** | | |
| Created By: | HieuNT | Date Created: | 10/05/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This feature allows the admin to getmanagerdetail. | | |
| Trigger: | Admin sends a request to get manager detail. | | |
| Preconditions: | PRE-01. User has logged in the system as admin role.  PRE-02. There is at least one the manager link. | | |
| Post-conditions: | POST-01. CFFA system returns manager information and redirect to manager detail page. | | |
| Normal Flow: | **38.0 Get manager detail**   1. Admin clicks on the admin link. 2. CFFA system validates the admin exists (see 38.0.E1) 3. CFFA system returns the manager information and redirects to manager detail page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **38.0.E1 The stores does not exist.**  1. CFFA system returns the message (MSG-041) and terminates this use case. | | |
| Priority: | High | | |
| Frequency of Use: | Usually | | |
| Business Rules: | BR-073 | | |
| Other Information: | In case of internet connection failure, Admin cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 42 - <Use Case> Get manager detail*

##### 2.2.4.3 <Admin> Update the store

*Figure 39 - <Use Case> Update the store*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-34 Update the store** | | |
| Created By: | LuanNM | Date Created: | 18/01/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This feature allows Admin to update store information in CFFA system. | | |
| Trigger: | Admin sends a request to update the store. | | |
| Preconditions: | PRE-01. User has logged in the system as admin role.  PRE-02. Admin is on “Camera detail” page. | | |
| Post-conditions: | POST-01. CFFA system updates store information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **34.0 Update the store**   1. Admin sends a request to update the store. 2. CFFA system requires store information that includes:  * “Store Name”: input text * “Image”: button * “Address”: input text * “City”: combobox * “District”: combobox * “Status”: combobox.  1. Admin inputs/selects the required fields. 2. Admin clicks on “Save” button. 3. CFFA system validates the fields (see 34.0.E1, 34.0.E2) 4. CFFA system updates store information and returns the message (MSG-013). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **34.0.E1 Admin does not input/select the required fields**   1. CFFA system returns to Admin to input/select the required fields again (MSG-014, MSG-026, MSG-036, MSG-038, MSG-039). 2. If Admin inputs/selects the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Admin cancels the login process, then CFFA system terminates this use case.   **34.0.E2 Admin inputs/selects the fields that are not valid**   1. CFFA system returns to Manager to input/select the fields again (MSG-015, MSG-027, MSG-037, MSG-034). 2. If Admin inputs/selects the fields again, CFFA system returns to step 3 of normal flow.MSG 3. Else if Admin cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-032, BR-055, BR-067, BR-68, BR-69 | | |
| Other Information: | In case of internet connection failure, Admin cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 37 - <Use Case> Update the store*

##### 2.2.4.4 <Admin> Delete the store

*Figure 40 - <Use Case> Delete the store*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-35 Delete the store** | | |
| Created By: | LuanNM | Date Created: | 10/05/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This feature allows Admin to delete the store. | | |
| Trigger: | Admin sends a request to delete the store. | | |
| Preconditions: | PRE-01. User has logged in the system as admin role.  PRE-02. Admin is on “Store detail” page. | | |
| Post-conditions: | POST-01. CFFA system updates store information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **35.0 Delete the store**   1. Admin sends a request to delete the camera. 2. CFFA system shows delete popup with message: "Are you sure?" and two buttons for Admin can select:  * "Yes" button * "No" button   1. Admin clicks on "Yes" button, CFFA system updates store information and returns the message (MSG-021) (see 26.0.E1).   2. Admin clicks on "No" button, close popup and nothing change. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **26.E1 The store does not exist**   1. CFFA system returns a message (MSG-035). 2. CFFA system redirects to manage store page and terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-032, BR-033, BR-069 | | |
| Other Information: | In case of internet connection failure, Admin cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 38 - <Use Case> Delete the store*

##### 2.2.4.5 <Admin> Create new store

*Figure 41 - <Use Case> Create new store*

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-36 Create new store** | | |
| Created By: | LuanNM | Date Created: | 10/05/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This feature allows Admin to create new store. | | |
| Trigger: | Admin sends a request to create new store. | | |
| Preconditions: | PRE-01. User has logged in the system as admin role.  PRE-02. Admin is on “Manage store” page. | | |
| Post-conditions: | POST-01. CFFA system stores newly created store information.  POST-02. CFFA system returns the message. | | |
| Normal Flow: | **36.0 Create new store**   1. Store sends a request to create new store. 2. CFFA system requires the store information:    * "Store name": input text, blank    * "Image": button    * "Address": input text    * "City": combobox    * "District": combobox 3. Admin inputs/selects the required fields. 4. Admin clicks on the "Create" button to create new store. 5. CFFA system validates the required fields (see 36.0.E1, 36.0.E2). 6. CFFA system stores newly created camera information and returns the message (MSG-013). | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **36.0.E1 Admin does not input/select the required fields**   1. CFFA system returns to Admin to input/select the required fields again (MSG-014, MSG-026, MSG-036, MSG-038, MSG-39). 2. If Admin inputs/selects the required fields again, CFFA system returns to step 3 of normal flow. 3. Else if Admin cancels the login process, then CFFA system terminates this use case.   **36.0.E1 Admin** **inputs/selects the fields that are not valid**   1. CFFA system returns to Admin to input/select the fields again (MSG-015, MSG-027, MSG-034, MSG-037). 2. If Admin inputs/selects the fields again, CFFA system returns to step 3 of normal flow. 3. Else if Admin cancels the login process, then CFFA system terminates this use case. | | |
| Priority: | Medium | | |
| Frequency of Use: | Often | | |
| Business Rules: | BR-035, BR-067, BR-070 | | |
| Other Information: | In case of internet connection failure, Admin cannot finish this use case properly. | | |
| Assumptions: | N/A | | |

*Table 39 - <Use Case> Create new store*

## 3. Other Requirements

### 3.1 Messages List

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Message code** | **Message Type** | **Context** | **Content** |
| 1 | MSG-001 | In line, under input form, red text | The list is empty. | No {object} to display |
| 2 | MSG-002 | In line, under input form, red text | The object doesn't not exist. | The {object} does not exist |
| 3 | MSG-003 | In line, under input form, red text | User does not enter/select any fields of search form. | Please enter/select at least one field. |
| 4 | MSG-004 | In line, under input form, red text | User does not enter/select the required field. | The {field} is required. |
| 5 | MSG-005 | In line, under input form, red text | Username or password is wrong. | Invalid username or password. |
| 6 | MSG-006 | in line, text field, red text | Unauthenticated user registers an account successfully. | Registration successful. |
| 7 | MSG-007 | in line, text field, red text | System already has object. | The {object} already exists. |
| 8 | MSG-008 | In line, under input form, red text | The text fields have wrong length or datatype. | The {field} has from {min-length} to {max-length} characters/digits.  (Based on BR-16) |
| 9 | MSG-009 | In line, under input form, red text | The text fields have wrong pattern. | The {field} is wrong the form. ({form-validation})  (Based on BR-16) |
| 10 | MSG-010 | In line, under input form, red text | The re-type password is wrong. | The re-type password is wrong. |
| 11 | MSG-011 | in line, text field, red text | Updating an object is successful. | Updated {object} successfully. |
| 12 | MSG-012 | in line, text field, red text | Deleting an object is successful. | Deleted {object} successfully. |
| 13 | MSG-013 | in line, text field, red text | Creating an object is successful. | Created {object} successfully. |
| 14 | MSG-014 | in line, text field, red text | The total of an object is a number. | The total of {object} is {number}. |