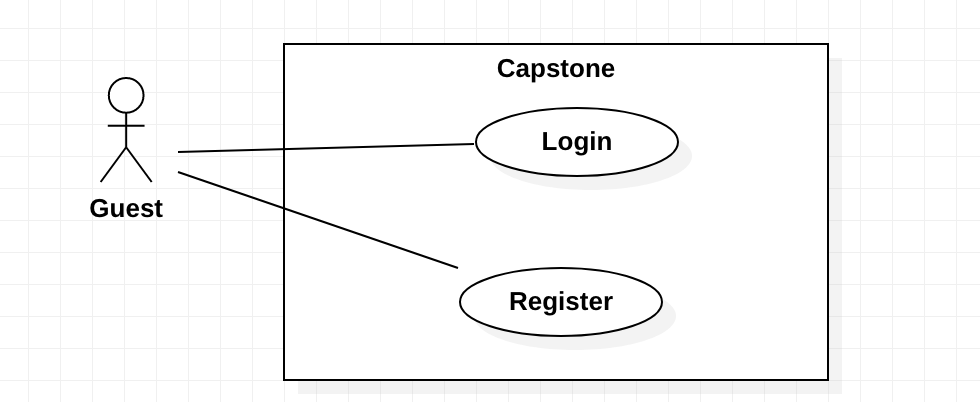
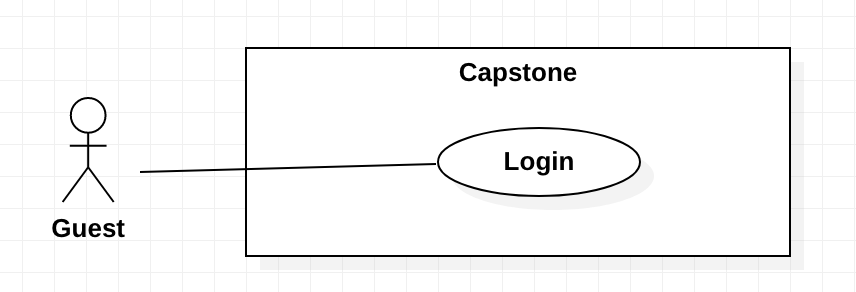
1. **Guest**

**Overview use case**

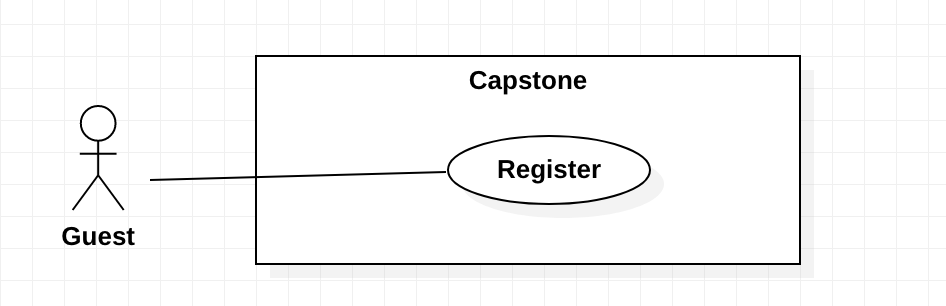
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**1.1<Guest> Login**

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| **USE CASE – Engineer Grab System** | | | |
| **Use Case No.** | CT-01 | **Use Case Version** | 1.0 |
| **Use Case Name** | Login by Account | | |
| **Author** | Than Nhat Truong | | |
| **Date** | 02/01/2021 | **Priority** | Normal |
| **Actor:**  - Guest.  **Summary:**  - This use case allows the guest to login the system by account.  **Goal:**  - Guest can login into the system by account.  **Triggers:**  - Guest clicks on the “Login” button.  **Preconditions:**  - Guest is on the Home page.  **Postconditions:**  - **Success**: Guest logins to the system successfully.  - **Fail**: System shows the error message.  **Main Success Scenarios:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Guest clicks on the “Login” button on the navigation menu. | System shows the form:  + Username: input.  + Password: input. | | 2 | Guest inputs the fields. |  | | 3 | Guest clicks on the “Login” button. | System shows the message: “Login successful”.  [Exception 1, 2, 3] |   **Alternative Scenarios:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | The username is blank. | System shows the message: “The username is required”. | | 2 | The password is blank. | System shows the message: “The password is required”. | | 3 | The account is not available. | System shows the message: “Invalid username or password”. | | 4 | Internet problem. | System shows the message:" The system is busy" when the internet is lost. |   **Relationships:** N/A  **Business Rules:**  - Password was converted before being sent to server.  - After login to the system, guest will be redirected to Admin page. | | | |

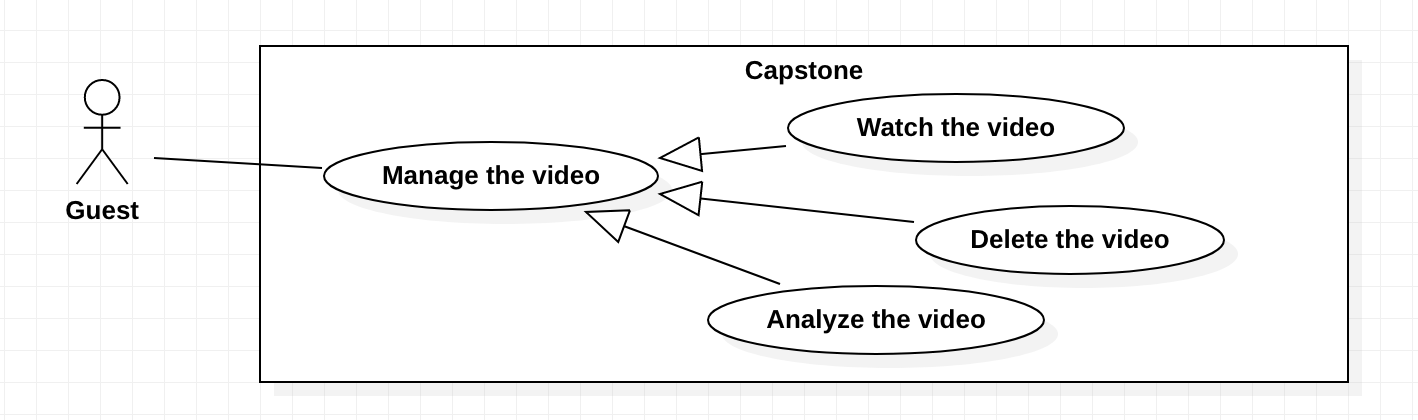
**1.2<Guest> Register**

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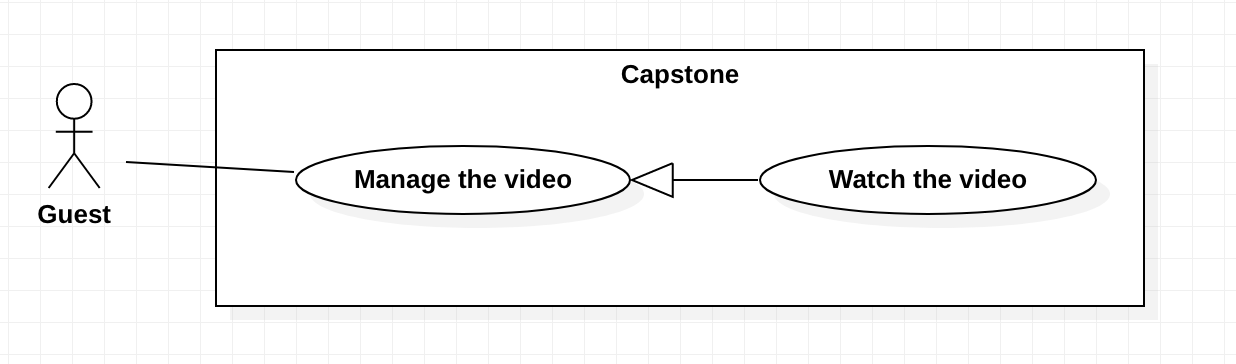
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| **USE CASE – Engineer Grab System** | | | |
| **Use Case No.** | CT-02 | **Use Case Version** | 1.0 |
| **Use Case Name** | Register an account | | |
| **Author** | Than Nhat Truong | | |
| **Date** | 20/02/2020 | **Priority** | Normal |
| **Actor:**  - Guest.  **Summary:**  - This use case allows the guest to register an account.  **Goal:**  - Guest can register an account.  **Triggers:**  - Guest clicks on the “Register” button.  **Preconditions:**  - Guest is on the login page.  **Postconditions:**  - **Success**: Guest registers successfully.  - **Fail**: System shows the error message.  **Main Success Scenarios:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Guest clicks on the “Register an account” button. | System shows the form that includes:  + Username: input.  + Fullname: input  + Phone: input  + Email: input  + Sex: check box  + Address: input  + City: combobox  + District: combobox  + Identify card: image  + Password: input.  + Re-type password: input | | 2 | Guest inputs the fields. |  | | 3 | Guest clicks on the “Register” button. | System shows the message: “Register successful”.  [Exception 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11] |   **Alternative Scenarios:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | The username existed. | System shows the message: “The username existed”. | | 2 | The username includes 6 – 30 characters. | System shows the message: “The username includes 6 - 30 characters.” | | 3 | The full name includes 6 – 50 characters. | System shows the message: “The full name includes 6 - 50 characters.” | | 4 | The sex is not selected. | System shows the message: “The sex must be selected”. | | 5 | The requestor’s phone includes 10 – 12 digits. | System shows the message: “The requestor’s phone includes 10 – 12 digits.” | | 6 | The identify card is empty. | System shows the message: “The identify card is required”. | | 7 | Email does not follow format form: ^[^\s@]+@[^\s@]+\.[^\s@]+$ | Email must follow format: ^[^\s@]+@[^\s@]+\.[^\s@]+$ | | 8 | The address is blank. | System shows the message: “The address is required”. | | 9 | The district is not selected. | System shows the message: “The district must be selected.” | | 10 | The city is not selected. | System shows the message: “The city must be selected”. | | 11 | The password includes 6 – 30 characters | System shows the message: “The password includes 6 - 30 characters.” | | 12 | The re-type password does not match password. | System show the message: “The re-type password does not match password.” | | 12 | Internet problem. | System shows message "The system is busy" when the internet is lost. |   **Relationships:** N/A  **Business Rules:**  - Password was converted before being sent to server.  - Guest can register an account by Facebook or Google.  - A new account has “admin” role.  - After the register successful, system redirects to the login page. | | | |

1. **Authorized user**

**Overview manage the video use case:**

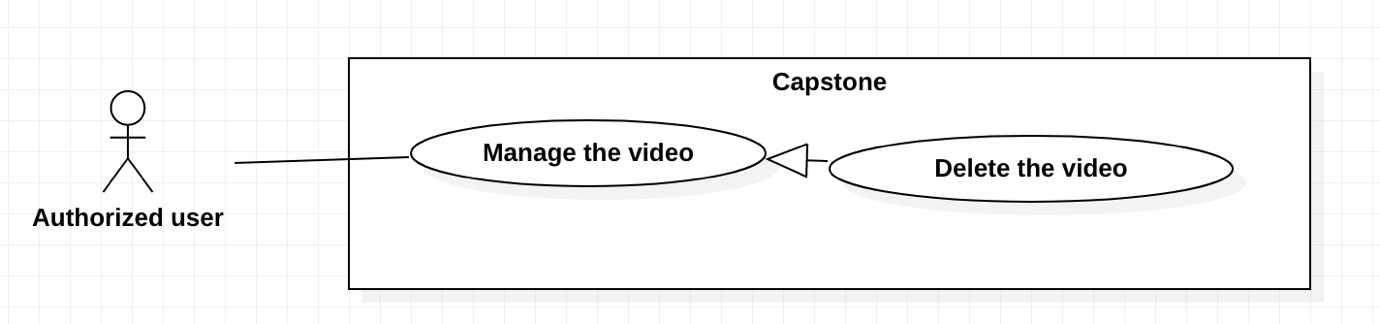
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**2.1 <Authorized user> Watch the video**



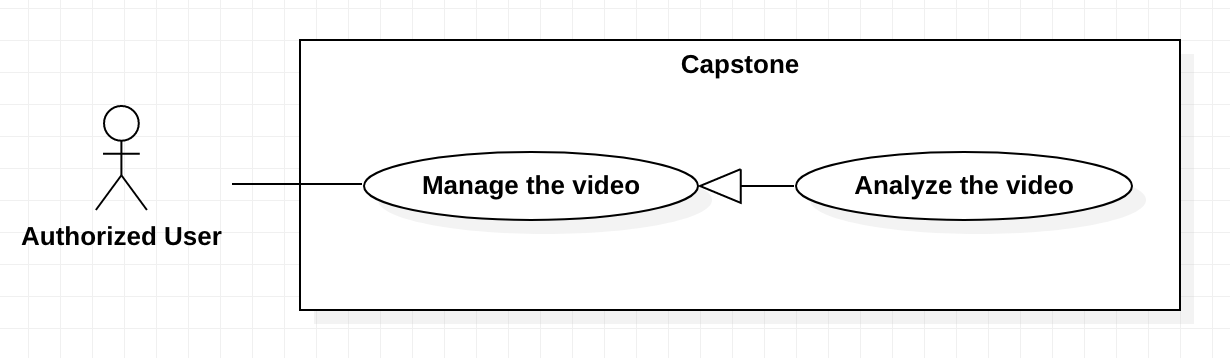
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| **USE CASE – Engineer Grab System** | | | |
| **Use Case No.** | CT-03 | **Use Case Version** | 1.0 |
| **Use Case Name** | Watch the video | | |
| **Author** | Than Nhat Truong | | |
| **Date** | 02/02/2021 | **Priority** | Normal |
| **Actor:**  - Authorized user.  **Summary:**  - This use case allows the authorized user to watch the video.  **Goal:**  - Authorized user can watch the video.  **Triggers:**  - Authorized user clicks on the “Play” button or choose start time.  **Preconditions:**  - Authorized user must login into the system.  - Authorized user is on the videos page.  **Postconditions:**  - **Success**: Authorized user watch the video successfully.  - **Fail**: System shows the error message.  **Main Success Scenarios:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Authorized user clicks on the “Play” button to watch the live video or choose start time to watch the video. | System shows the video.  [Exception 1] |   **Alternative Scenarios:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | The start time of video is invalid. | System shows the nearest time video with start time that was chosen by user. | | 2 | Internet problem. | System shows message "The system is busy" when the internet is lost. |   **Relationships:** N/A  **Business Rules:**  - The authorized can stop or back to the video while watching the video. | | | |

**2.2 <Authorized user> Delete the video**

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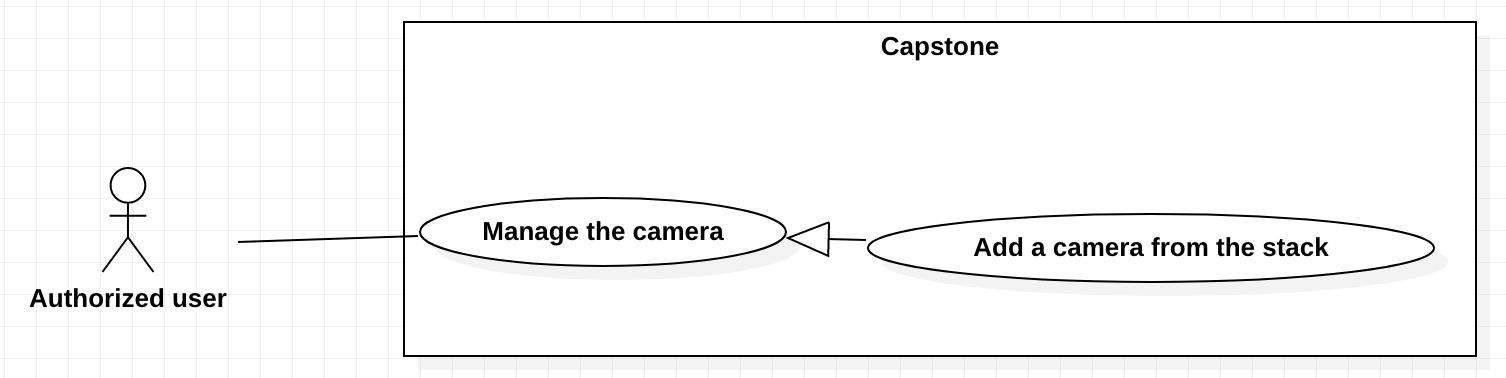
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| **USE CASE – Engineer Grab System** | | | |
| **Use Case No.** | CT-04 | **Use Case Version** | 1.0 |
| **Use Case Name** | Delete the video | | |
| **Author** | Than Nhat Truong | | |
| **Date** | 02/02/2021 | **Priority** | Normal |
| **Actor:**  - Authorized user.  **Summary:**  - This use case allows the authorized user to delete the video.  **Goal:**  - Authorized user can delete the video.  **Triggers:**  - Authorized user clicks on the “Delete” button.  - Authorized user clicks on the “Ok” button in confirm message dialog.  **Preconditions:**  - Authorized user must login into the system.  - Authorized user is on the video list page.  **Postconditions:**  - **Success**: Authorized user delete the video successfully.  - **Fail**: System shows the error message.  **Main Success Scenarios:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Authorized user clicks on the “Delete” button on the video. | System shows confirm message dialog. | | 2 | Authorized user clicks on the “Ok” button in confirm message dialog. | The system shows the message: “Delete the video successful”.  [Exception 1] |   **Alternative Scenarios:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | The chosen video is invalid. | System shows the message: “The video is invalid.” | | 2 | Internet problem. | System shows message "The system is busy" when the internet is lost. |   **Relationships:** N/A  **Business Rules:**  - After authorized had deleted the video, system redirects to video list page. | | | |

**2.3 <Authorized user> Analyze the video**



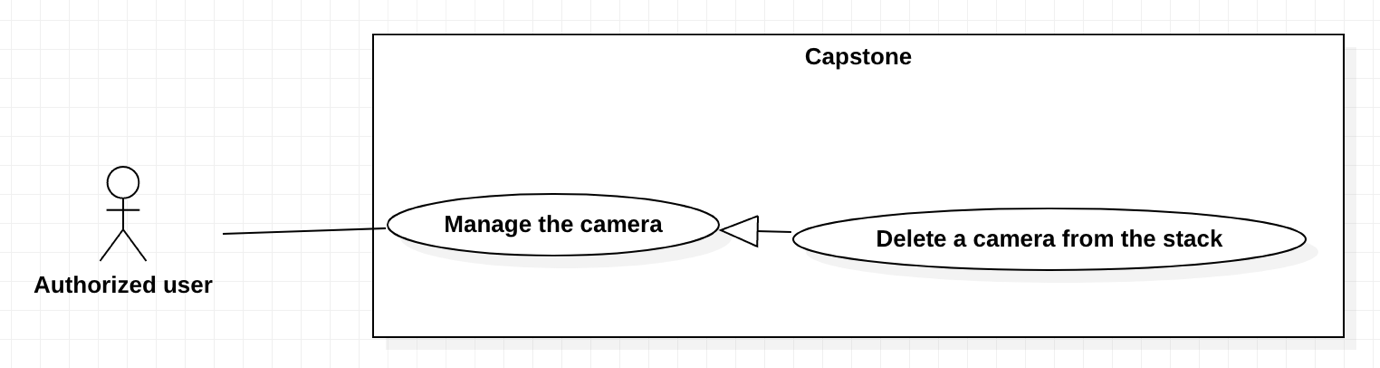
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| **USE CASE – Engineer Grab System** | | | |
| **Use Case No.** | CT-05 | **Use Case Version** | 1.0 |
| **Use Case Name** | Analyze the video | | |
| **Author** | Than Nhat Truong | | |
| **Date** | 02/02/2021 | **Priority** | Normal |
| **Actor:**  - Authorized user.  **Summary:**  - This use case allows the authorized user to analyze the video.  **Goal:**  - Authorized user can analyze the video.  **Triggers:**  - Authorized user clicks on the “Analyze” button.  **Preconditions:**  - Authorized user must login into the system.  - Authorized user is on the video page.  **Postconditions:**  - **Success**: Authorized user analyze the video successfully.  - **Fail**: System shows the error message.  **Main Success Scenarios:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Authorized user clicks on the “Analyze” button on the video page. | System shows analyze form:  + From time: datetime  + To time: datetime  + Auto analyze: combobox | | 2 | Authorized user clicks on the “Start” button. | The system shows the message: “Analyze the video successful”.  [Exception 1, 2 , 3] |   **Alternative Scenarios:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | From time is invalid. | System shows the message: “The from time video is invalid.” | | 2 | To time is invalid. | System shows the message: “The to time video is invalid.” | | 3 | Internet problem. | System shows message "The system is busy" when the internet is lost. |   **Relationships:** N/A  **Business Rules:**  - After authorized had analyzed the video, system redirects to video page. | | | |

**2.4 <Authorized user> Add a camera to the stack**

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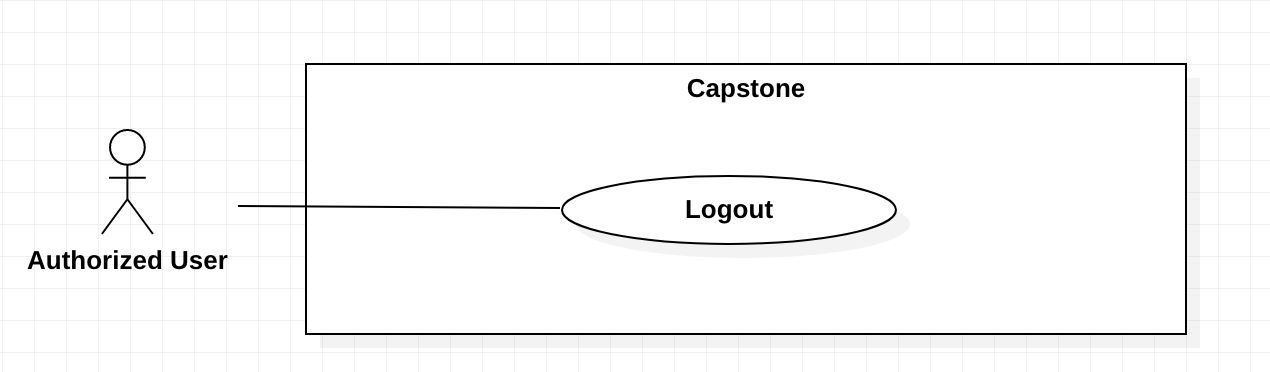
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| --- | --- | --- | --- |
| **USE CASE – Engineer Grab System** | | | |
| **Use Case No.** | CT-27 | **Use Case Version** | 1.0 |
| **Use Case Name** | Add a camera to the stack | | |
| **Author** | Than Nhat Truong | | |
| **Date** | 02/02/2021 | **Priority** | Normal |
| **Actor:**  - Authorized user.  **Summary:**  - This use case allows the authorized user to add a camera to the stack.  **Goal:**  - Authorized user can add a camera to the stack.  **Triggers:**  - Authorized user clicks on the “Add” button.  **Preconditions:**  - Authorized user must login into the system.  - Authorized user is on the stack list page.  **Postconditions:**  - **Success**: Authorized adds the camera to a stack successfully.  - **Fail**: System shows the error message.  **Main Success Scenarios:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Authorized user clicks on the “Add” button on the stack list page. | System shows available camera list. | | 2 | Authorized user clicks add icon on camera list. | The system shows the message: “Add a camera to the stack successfully”.  [Exception 1, 2 , 3] |   **Alternative Scenarios:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | Camera is not available. | System shows the message: “This camera is not available.” | | 2 | The stack has more one available camera. | System shows the message: “The stack has only one available camera at a time.” | | 3 | Internet problem. | System shows message "The system is busy" when the internet is lost. |   **Relationships:** N/A  **Business Rules:**  - After authorized had analyzed the video, system redirects to stack list page. | | | |

**2.5 Delete a camera from the stack**

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| **USE CASE – Engineer Grab System** | | | |
| **Use Case No.** | CT-28 | **Use Case Version** | 1.0 |
| **Use Case Name** | Delete a camera from the stack | | |
| **Author** | Than Nhat Truong | | |
| **Date** | 02/02/2021 | **Priority** | Normal |
| **Actor:**  - Authorized user.  **Summary:**  - This use case allows the authorized user to delete a camera from the stack.  **Goal:**  - Authorized user can to delete a camera from the stack.  **Triggers:**  - Authorized user clicks on the “Delete” button.  - Authorized user “Ok” button in the dialog.  **Preconditions:**  - Authorized user must login into the system.  - Authorized user is on the stack list page.  **Postconditions:**  - **Success**: Authorized adds the camera to a stack successfully.  - **Fail**: System shows the error message.  **Main Success Scenarios:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Authorized user clicks on the “Delete” button on the stack list page. | System shows confirm message dialog. | | 2 | Authorized user “Ok” button on the dialog. | The system shows the message: “Delete a camera from the stack successfully”.  [Exception 1, 2] |   **Alternative Scenarios:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | Camera is not available. | System shows the message: “This camera is not available.” | | 2 | Internet problem. | System shows message "The system is busy" when the internet is lost. |   **Relationships:** N/A  **Business Rules:**  - After authorized had analyzed the video, system redirects to stack list page. | | | |

**2.6 <Authorized user> Logout**

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| **USE CASE – Engineer Grab System** | | | |
| **Use Case No.** | CT-30 | **Use Case Version** | 1.0 |
| **Use Case Name** | Logout | | |
| **Author** | Than Nhat Truong | | |
| **Date** | 02/01/2021 | **Priority** | Normal |
| **Actor:**  - Authorized User.  **Summary:**  - This use case allows the authorized user to logout the system.  **Goal:**  - Authorized user can logout from the system.  **Triggers:**  - Authorized user clicks on the “Logout” button.  **Preconditions:**  - Authorized user must login to the system.  **Postconditions:**  - **Success**: Authorized user logout from the system successfully.  - **Fail**: System shows the error message.  **Main Success Scenarios:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | Authorized user clicks on the “Logout” button on navigation menu. | System shows Logout dialog with message:” Do you want to logout? ”. | | 2 | Authorized user clicks on the “Yes” button. | Authorized user logout the system. |   **Alternative Scenarios:** N/A  **Exceptions:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | Authorized user clicks on the “No” button. | System closed Logout form. | | 2 | Internet problem. | System shows message: "The system is busy" when the internet is lost. |   **Relationships:** N/A.  **Business Rules:**  - After authorized user logout from the system, system redirects to the home page. | | | |