# Algorithms - Data Flowchart:

Symbol generate:



## Login process



## Logout process



## Online Admission



## Student Registration



## Insert process



## Update process



## Delete process



## Search process



# Sequence Diagram

## Login

|  |  |  |
| --- | --- | --- |
| Use Case Name | Login | |
| Author | Nguyen Vu Hung | |
| Actors | Administrator, Staff, Student | |
| Description | Actors use this use case to login to system | |
| Requirements |  | |
| Pre-Conditions |  | |
| Post-Condition |  | |
| Basic Flow | Actors action  1. Actors click on “Login “ button  3. Actors enter username and password into form.  4. Actors click “Login”  button  [alternative] | System Response  2. The system display ”Login” page the following control:  - “Username” text field  - “Password” text field  - “Login” button  - “Cancel” button  5. The system validate Username and Password  6. The system log Actors into system. |
| Alternative Flow | Actors action  [alternative] Actors click Cancel button | System Response  System return to Homepage |
| Exceptions | Actors action  [exception1] Actors provide invald Username and Password | System Response  1. System display message: “The usename or password provided are incorrect” |

## Logout

|  |  |  |
| --- | --- | --- |
| Use Case Name | Logout | |
| Author | Nguyen Vu Hung | |
| Actors | Administrator, Staff, Student | |
| Description | Actors use this use case to login to system | |
| Requirements |  | |
| Pre-Conditions | Already login into the System | |
| Post-Condition |  | |
| Basic Flow | Actors action  1. Actors click on “Logout “ button  3. Actors click “OK”  button  [alternative] | System Response  2. System display message: “Do you want to logout?”  5. System logout Actors. |
| Alternative Flow | Actors action  [alternative] Actors click Cancel button | System Response  System return to previous page |
| Exceptions |  |  |

## Insert

|  |  |  |
| --- | --- | --- |
| Use Case Name | Insert | |
| Author | Tran Dung Tri | |
| Actors | Administrator, Staff | |
| Description | Actors use this use case to insert new information into system | |
| Requirements |  | |
| Pre-Conditions | Already logged in to the System as Administrator or Staff | |
| Post-Condition | Success: New information is saved into system database  Fail: Refill information | |
| Basic Flow | Actors action  1. Actors click on “Insert” button  3. Actors enter new information into form.  4. Actors click “Submit”  button  [alternative] | System Response  2. System displays ”Insert” page  5. System validates new information  [exception1]  6. System saves new information into system. |
| Alternative Flow | Actors action  [alternative] Actors click “Cancel” button | System Response  System returns to previous page |
| Exceptions | Actors action  [exception1] Actors provide invalid information | System Response  1. System displays error message |

## Update

|  |  |  |
| --- | --- | --- |
| Use Case Name | Update | |
| Author | Tran Dung Tri | |
| Actors | Administrator, Staff | |
| Description | Actors use this use case to update new information into system | |
| Requirements |  | |
| Pre-Conditions | Already logged in to the system | |
| Post-Condition | Success: Selected information is updated into system database  Fail: Refill information | |
| Basic Flow | Actors action  1. Actors click on “Update” button  3. Actors update new information into form.  4. Actors click “Update”  button  [alternative] | System Response  2. System displays ”Update” page  5. System validates new information  [exception1]  6. System updates new information into system. |
| Alternative Flow | Actors action  [alternative] Actors click Cancel button | System Response  System returns to previous page |
| Exceptions | Actors action  [exception1] Actors provide invalid information | System Response  1. System displays error message |

## Delete

|  |  |  |
| --- | --- | --- |
| Use Case Name | Delete | |
| Author | Tran Dung Tri | |
| Actors | Administrator, Staff | |
| Description | Actors use this use case to delete information from system | |
| Requirements |  | |
| Pre-Conditions | Already logged in to the system | |
| Post-Condition | Success: Selected information is deleted from system database  Fail: Refill information | |
| Basic Flow | Actors action  1. Actors click on “Delete” button  4. Actors click “Yes”  button  [alternative] | System Response  2. System displays “Delete” page  5. The system deletes the selected information  [exception1] |
| Alternative Flow | Actors action  [alternative] Actors click Cancel button | System Response  System returns to previous page |
| Exceptions | Actors action  [exception1] Actors provide invalid information | System Response  1. System displays error message |

## Search

|  |  |  |
| --- | --- | --- |
| Use Case Name | Search | |
| Author | Tran Dung Tri | |
| Actors | Administrator, Staff, Student | |
| Description | Actors use this use case to information into system | |
| Requirements |  | |
| Pre-Conditions | Already logged in to the system | |
| Post-Condition | Success: Found information is displayed on the “Display” page  Fail: Refill information | |
| Basic Flow | Actors action  1. Actors click on “Search“ button  3. Actors enter keyword to search.  4. Actors click “Search”  button  [alternative] | System Response  2. System display ”Search” page  5. The system validates keyword  [exception1]  6. The system saves new information into system. |
| Alternative Flow | Actors action  [alternative] Actors click Cancel button | System Response  System returns to previous page |
| Exceptions | Actors action  [exception1] Actors provide invalid information | System Response  1. System display error message |