**Use Cases**

**for**

**StudyHub@NTU**

**Version 1.0 approved**

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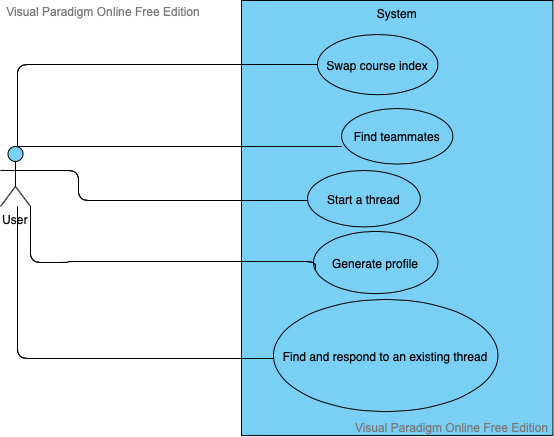
**Revision History**

| **Name** | **Date** | **Reason For Changes** | **Version** |
| --- | --- | --- | --- |
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|  |  |  |  |

**Use Case List**

| ***Primary Actor*** | ***Use Cases*** |
| --- | --- |
| Users | Swap course index |
| Users | Find teammates |
| Users | Start a thread |
| Users | Generate profile |
| Users | Find and respond to an existing thread |

**Use Case Diagram**



| Use Case ID: | 1 | | |
| --- | --- | --- | --- |
| Use Case Name: | Swap course index | | |
| Created By: | Li Pingrui | Last Updated By: | Li Pingrui |
| Date Created: | 20/08/2021 | Date Last Updated: | 01/09/2021 |

| Actors: | Users |
| --- | --- |
| Description: | This use case allows users to post index swapping requests as well as view requests posted by others. |
| Trigger: | A user wishes to change a course to another slot which has no vacancy during the add/drop period. |
| Preconditions: | 1. Users must have logged in the system. |
| Postconditions: | Users’ swap post is displayed under the related course site. |
| Normal Flow: | 1. The user selects a module in the module list.  2. The user selects swap index function  3. The system displays index swapping requests posted for the specific module.  4. The user consents to a request.  5. The system sends a notification to the user who posted the request and removes the request from page until further confirmation from the author. |
| Alternative Flows: | AF-S4: If the user can’t find any swapping requests from the desired index to the user’s current index.  1. The user selects posting a new request function.  2. The system prompts the user to input the current index and desired index.  3. The user confirms to post the request.  4. The system displays a success message. |
| Exceptions: | EX1: If the request was fulfilled when the user is browsing and the user chooses to consent to the request.  1. The system will display an error message and prompt the user to consider other requests. |
| Includes: | None |
| Priority: | Low |
| Frequency of Use: | Less than 10 times per semester |
| Business Rules: | N.A. |
| Special Requirements: | The course must be a valid course offered by NTU. |
| Assumptions: | None |
| Notes and Issues: | None |

| Use Case ID: | 2 | | |
| --- | --- | --- | --- |
| Use Case Name: | Find teammates | | |
| Created By: | Li Pingrui | Last Updated By: | Li Pingrui |
| Date Created: | 20/08/2021 | Date Last Updated: | 01/09/2021 |

| Actors: | Users |
| --- | --- |
| Description: | This use case allows users to look for teammates for course projects. |
| Trigger: | A user doesn't have enough members in his or her team and wishes to find more teammates. Or the user wishes to join a group that is open for new members. |
| Preconditions: | 1. Users must have logged in the system. |
| Postconditions: | A prompt message is displayed to indicate whether the action is successful or not. |
| Normal Flow: | 1. The user selects a module in the module list.  2. The user selects find teammates function  3. The system displays all teammate-seeking information posted for the specific module.  4. The user applies to join a team.  5. The system sends a notification to the user who posted the information and increments number of users applying to the team by 1. |
| Alternative Flows: | AF-S4: If the user wants to post teammate-seeking information for his or her own group.  1. The user selects the posting new information function.  2. The system prompts the user to input the class index, the current members of the team and target number of teammates.  3. The user confirms to post the information.  4. The system displays a success message. |
| Exceptions: | EX1: If one teammate-seeking information was closed when the user is browsing and the user chooses to apply to join.  1. The system will display an error message and prompt the user to consider other requests. |
| Includes: | None |
| Priority: | Low |
| Frequency of Use: | Less than 10 times per semester |
| Business Rules: | N.A. |
| Special Requirements: | The course must be a valid course offered by NTU. |
| Assumptions: | None |
| Notes and Issues: | None |

| Use Case ID: | 3 | | |
| --- | --- | --- | --- |
| Use Case Name: | Start a thread | | |
| Created By: | Wang Ying | Last Updated By: | Wang Ying |
| Date Created: | 22/8/2021 | Date Last Updated: | 1/9/2021 |

| Actors: | Users |
| --- | --- |
| Description: | This use case allows users to start and post a thread to the system. |
| Trigger: | Users want to share some information with others or ask for help in the system. |
| Preconditions: | Users must have logged in the system. |
| Postconditions: | None |
| Normal Flow: | 1. The user clicks the button for posting.  2. The user types in what they want to post including photo and math formula.  3. The user clicks the button for confirmation of the post.  4. The system displays a success message. |
| Alternative Flows: | AF-S3: If the user has already written part of the thread but does not want to send it.  1. The user can click the button for cancelation.  2. The system asks the user whether he wants to discard the thread. 3. The user chooses yes.  4. The system displays a success message.  AF-S3: If the user has already written part of the thread but does not want to send it right away.  1. The user can click the button to save.  2. The system asks the user whether he wants to save the thread as draft.  3. The user chooses yes.  4. The system displays a success message. |
| Exceptions: | EX1: If there is no internet connection and the thread was failure to post  1. The system will give an error message. |
| Includes: | None |
| Priority: | Medium |
| Frequency of Use: | 1 time per day |
| Business Rules: | N.A. |
| Special Requirements: | N.A. |
| Assumptions: | None |
| Notes and Issues: | None |

| Use Case ID: | 4 | | |
| --- | --- | --- | --- |
| Use Case Name: | Generate profile | | |
| Created By: | Ge Zhuoyan | Last Updated By: | Ge Zhuoyan |
| Date Created: | 24/8/2021 | Date Last Updated: | 1/9/2021 |

| Actors: | Users |
| --- | --- |
| Description: | This use case allows users to enter personal information and their enrolled courses and view personal profile |
| Trigger: | It is a new semester and the user took on new courses. |
| Preconditions: | The user must have logged in to the system |
| Postconditions: | Personal profile is generated and system display the profile page |
| Normal Flow: | 1. User selects the personal profile function  2. The system prompts the user to enter their personal information and the courses they enrolled in.  3. User enters the required information  4. The system validates the information and create the profile  5. System enters the profile page where account information is displayed |
| Alternative Flows: | AF-S2: If the user wants to update their personal information:  1. The system shows current profile  2. User selects edit function  3. The system returns to step 3 of the normal flow  AF-S4: If the system fails to validate the information:  1. The system gives an error message  2. The system returns to step 2 of the normal flow |
| Exceptions: | EX1: If the system cannot connect to the database  1. The system fails to create the profile  2. The system gives an error message |
| Includes: | None |
| Priority: | Low |
| Frequency of Use: | Once a semester |
| Business Rules: | N.A. |
| Special Requirements: | None |
| Assumptions: | The user is a current NTU student |
| Notes and Issues: | None |

| Use Case ID: | 5 | | |
| --- | --- | --- | --- |
| Use Case Name: | Find and respond to an existing thread | | |
| Created By: | Ge Zhuoyan | Last Updated By: | Ge Zhuoyan |
| Date Created: | 24/8/2021 | Date Last Updated: | 1/9/2021 |

| Actors: | Users |
| --- | --- |
| Description: | This use case allows the user to find and respond to an existing thread. (e.g. reply, forward and save as favorite) |
| Trigger: | User wishes to view the threads of a specific course |
| Preconditions: | The user must have logged in to the system |
| Postconditions: | 1. User finds the information they need  2. User responds to the information they found |
| Normal Flow: | 1. User enters a course of interest in the search box  2. The system displays a collapsed view of all the threads  3. User browses through the threads and select the one they are interested in  4. The system displays the full thread  5. User clicks on the reply button and enter their replies  6. The system posts the reply in the thread  7. The system notifies the thread owner and displays the updated thread |
| Alternative Flows: | AF-S5 If the user wishes to notify a friend about this post:  1. User tags the friend’s ID in the reply  2. The system notifies the friend  3. The system returns to step 6 of the normal flow  AF-S5 If the user wishes to save the thread as favorite for later use  1. User clicks on the like button  2. The system prompts the user that thread is saved  3. The system returns to step 7 of the normal flow |
| Exceptions: | EX1: If the system cannot connect to the database  1. The system fails to display thread information  2. The system gives an error message |
| Includes: | None |
| Priority: | High |
| Frequency of Use: | Once per day |
| Business Rules: | N.A. |
| Special Requirements: | The system should be under stable network connection |
| Assumptions: | The user is a current NTU student taking at least one course |
| Notes and Issues: | None |