Use Cases

for

NTUCollab

Version 1.2 approved

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Team Eagles

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Revision History

Name	Date	Reason For Changes	Version
Somani Palak	24/01/2021	Added Use Case Descriptions	1.0
Dandapath Soham	30/01/2021	Updated first Draft	1.1
Bhatia Ritik	01/02/2021	Added additional Use Cases	1.2

Use Case List

Primary Actor	Use Cases
User	10
Database System	9

Use Case ID:	1		
Use Case Name:	Log In		
Created By:	Somani Palak	Last Updated By:	Somani Palak
Date Created:	24/01/2021	Date Last Updated:	01/02/2021

Actors:	User (Initiating), Database System (Participating)
Description:	To Log Into the system
Trigger:	Clicking on the 'Login' button
Preconditions:	User must have an account registered with the system
Postconditions:	User will be signed into the system
Normal Flow:	1. The user enters the email address 2. The user enters the password 3. The system verifies the account information with the database system 4. If the account credentials are verified, then the user is signed in
Alternative Flows:	5. If the credentials are invalid: 　　a. The system displays the message: "Invalid Credentials. Please try again" 　　b. The system returns to step 1 6. If the user has forgotten password: 　　c. The user clicks at "Forgot Password?" 　　d. The system will ask for the recovery email address 　　　　i. If the email address exists in the database, the system triggers a password recovery link to the email 　　　　ii. If the email address does not exist, the system displays a message "No Account found" and returns to Step 1
Exceptions:	1. If the user enters incorrect credentials for 3 times, the account is locked, and an account activation email is sent to the registered email address 2. If the system cannot connect to the database server, the system displays an error message "Cannot connect to server. Please try again later"
Includes	Nil
Priority:	High (Mandatory for each user signed up in the system to login every time)
Frequency of Use:	Once every time in case the user is signed up. (Else the user will need to sign up)
Business Rules:	Nil
Special Requirements	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	2		
Use Case Name:	Module Groups Recommendation		
Created By:	Somani Palak	Last Updated By:	Somani Palak
Date Created:	24/01/2021	Date Last Updated:	01/02/2021

Actors:	User, Database System
Description:	To view recommended modules based on user's preferences.
Trigger:	Clicking on "Module Recommendations" button
Preconditions:	1) User must have an account registered with the system 2) User must be logged into the system 3) User must have already filled in his preferences in order to provide relevant module recommendations
Postconditions:	User will be shown the suggested modules as per their entered preferences
Normal Flow:	1. The user clicks on "Module Recommendations" button 2. The details of the modules best matching the user's preferences are retrieved from the database and displayed
Alternative Flows:	Nil
Exceptions:	1. If no courses meeting the user's preferences are found, the system displays a message - "No modules matching your selected preferences found" 2. If the communication with the database cannot be established, then an error message "Database connection failed" is shown to the user.
Includes:	Nil
Priority:	Medium (User can click on the "Module Recommendations" button in order to retrieve relevant recommendations)
Frequency of Use:	Once every time the user clicks on "Module Recommendations" icon
Special Requirements	Nil
Business Rules:	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	3		
Use Case Name:	Interest Groups Recommendation		
Created By:	Somani Palak	Last Updated By:	Somani Palak
Date Created:	24/01/2021	Date Last Updated:	01/02/2021

Actors:	User, Database System
Description:	To view recommended interest groups to join based on the user's selected preferences.
Trigger:	Clicking on "Interest Group Recommendations" button
Preconditions:	1) User must have an account registered with the system 2) User must be logged into the system 3) User must have already filled in his preferences in order to retrieve relevant interest groups that match his/her taste
Postconditions:	User will be shown the suggested interest groups they can join, as per their preferences
Normal Flow:	1. The user clicks on "Interest Group Recommendations" button 3. The details of the interest groups best matching the user's preferences are retrieved from the database and displayed
Alternative Flows:	Nil
Exceptions:	1. If no interest group meeting the user's preferences are found, the system displays a message - "No interest groups matching your selected preferences found" 2. If the communication with the database cannot be established, then an error message "Database connection failed" is shown to the user.
Includes:	Nil
Priority:	Medium (User can click on the "Interest Group Recommendations" button in order to retrieve relevant recommendations)
Frequency of Use:	Once every time the user clicks on "Interest Group Recommendations" icon
Business Rules:	Nil
Special Requirements	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	4		
Use Case Name:	Club Groups Recommendation		
Created By:	Somani Palak	Last Updated By:	Somani Palak
Date Created:	24/01/2021	Date Last Updated:	01/02/2021

Actors:	User, Database System
Description:	To view recommended clubs based on selected interests/hobbies
Trigger:	Clicking on the 'Club Recommendations' button
Preconditions:	1) User must have an account registered with the system 2) User must be logged into the system 3) User must have already filled in his preferences in order to provide relevant club recommendations
Postconditions:	User will be shown the suggested clubs as per his/her interests and hobbies
Normal Flow:	1. The user clicks on "Club Recommendations" button 2. The details of the clubs best matching the user's preferences are retrieved from the database and displayed
Alternative Flows:	Nil
Exceptions:	1. If no clubs meeting the user's preference are found, the system displays a message - "No clubs matching your selected preferences found" 2. If the communication with the database cannot be established, then an error message "Database connection failed" is shown to the user.
Includes:	Nil
Priority:	Medium (User can click on the "Club Recommendations" button in order to retrieve relevant recommendations)
Frequency of Use:	Once every time the user clicks on "Club Recommendations" icon
Business Rules:	Nil
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	5		
Use Case Name:	Register		
Created By:	Bhatia Ritik	Last Updated By:	Bhatia Ritik
Date Created:	24/01/2021	Date Last Updated:	26/01/2021

Actors:	User, Database System
Description:	To create the personal account of a new user in the application database
Trigger:	Clicking on the 'Register' button
Preconditions:	Nil
Postconditions:	User account will be created and stored in database. User will then be taken to the home page
Normal Flow:	1. User opens the application 2. User enters personal information required for account creation 3. User data is validated, and the home page is shown
Alternative Flows:	Nil
Exceptions:	1. If user attempts to create account without specifying all information, application notifies the user to provide all necessary information
Includes:	Nil
Priority:	High
Frequency of Use:	Once, for every new user using the application
Business Rules:	The user should have an account with at least one of the social login methods.
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	6		
Use Case Name:	Edit Profile		
Created By:	Bhatia Ritik	Last Updated By:	Bhatia Ritik
Date Created:	24/01/2021	Date Last Updated:	25/01/2021

Actors:	User, Database System
Description:	To allow the user to change profile-specific information like preferences, interests etc.
Trigger:	Clicking on the 'Edit Profile' button
Preconditions:	1. User must have an account registered with the system 2. User must be logged into the system
Postconditions:	User's data will be changed in the database, as per the modifications done by the user
Normal Flow:	1. User clicks on *Profile* tab, to open the profile page 2. User specifies whether he/she wants to add or remove preferences 3. If user wants to add preferences, he/she clicks the respective tag. If user wants to remove preferences, he/she removes the same. 4. The modifications are stored in the database 5. Profile page is updated
Alternative Flows:	1. User clicks on *Profile* tab, to open the profile page 2. User specifies whether he/she wants to add or remove preferences 3. User presses 'Cancel' to cancel transaction 4. Profile page is left as it is
Exceptions:	1. If the user wants to add a preference that does not exist in the database, the system notifies the user to choose preferences which are available
Includes:	Nil
Priority:	High
Frequency of Use:	Once every time the user wishes to add, remove or change preferences
Business Rules:	Nil
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	7		
Use Case Name:	Select Preferences		
Created By:	Bhatia Ritik	Last Updated By:	Bhatia Ritik
Date Created:	24/01/2021	Date Last Updated:	25/01/2021

Actors:	User, Database System
Description:	To allow the user to specify the interests, so that recommendations can be tailored accordingly
Trigger:	When the user registers a new account.
Preconditions:	1. User must have an account registered with the system 2. User must be logged into the system
Postconditions:	User will be asked to select his/her preferences and then provided recommendations accordingly
Normal Flow:	1. The user chooses his/her preferences for which he/she recommendations 2. System records preferences, stores in database 3. Recommendations are shown as per preferences
Alternative Flows:	Nil
Exceptions:	1. If the user wants to add a preference that does not exist in the database, the system notifies the user to choose preferences which are available
Includes:	Nil
Priority:	High
Frequency of Use:	Once every time the user registers an account with the system.
Business Rules:	Nil
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	8		
Use Case Name:	Display Details		
Created By:	Bhatia Ritik	Last Updated By:	Bhatia Ritik
Date Created:	24/01/2021	Date Last Updated:	25/01/2021

Actors:	User, Database System
Description:	To display details of modules, clubs and interest groups recommended to the user
Trigger:	When user clicks on a specific module, club, or interest group
Preconditions:	1. User must have an account registered with the system 2. User must be logged into the system 3. User must have provided his/her preferences
Postconditions:	User can view detailed information about each recommendation like posts, description, and rating
Normal Flow:	1. User clicks on modules, clubs or interest groups based on what he/she wants to view 2. Application displays recommendations based on preferences recorded earlier 3. User can click on a recommendation for more detailed information like posts, description and rating
Alternative Flows:	Nil
Exceptions:	Nil
Includes:	Nil
Priority:	High
Frequency of Use:	Every time the user logs into the application
Business Rules:	Nil
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID	9		
Use Case Name:	Create Post		
Created By:	Dandapath Soham	Last Updated By:	Dandapath Soham
Date Created:	30/1/2021	Date Last Updated:	30/1/2021

Actors:	User, Database
Description:	To create post for interest groups, clubs or module
Trigger:	User selects the Create Post button at the bottom left corner
Preconditions:	User must have an account registered with the system User must be logged into the system User must have already filled in his preferences in to provide relevant module recommendations. User must have selected a recommended group, module or club based on his selection in the main page.
Postconditions:	User can create a post which will be publicly visible on the group's details page.
Normal Flow:	The user clicks on "Create post" button located on the bottom left corner. A text box pops up which allows user to enter the content of the post. The user clicks on "Done" which triggers a communication to the database storing the post. The post is displayed on the page.
Alternative Flows:	The user clicks on "Create post" button located on the bottom A text box pops up which allows user to enter the content of the post. The user clicks on "Cancel" which closes the text box.
Exceptions:	If the communication with the database cannot be established then an error message "Database connection failed" is shown to the user.
Includes:	Nil
Priority:	Low
Frequency of Use:	Once every time the user wants to create a post details page.
Business Rules:	Nil
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	10		
Use Case Name:	Provide a general rating for a particular interest group		
Created By:	Somani Palak	Last Updated By:	Somani Palak
Date Created:	30/01/2021	Date Last Updated:	01/02/2021

Actors:	User, Database System
Description:	To allow users to provide a general rating for a particular interest group
Trigger:	Clicking on the "Give General Ratings" button
Preconditions:	1) User must have an account registered with the system 2) User must be logged into the system
Postconditions:	User's ratings will be added to existing ratings (if any) on the general ratings for a particular interest group
Normal Flow:	1. The user searches and opens the details for the desired interest group he would like to rate 2. The user clicks on "Give General Ratings" 3. The user provides a rating from 1 to 5.
Alternative Flows:	Nil
Exceptions:	1. If the communication with the database cannot be established, then an error message "Database connection failed" is shown to the user.
Includes:	Nil
Priority:	Low
Frequency of Use:	Once
Business Rules:	Nil
Special Requirements:	Nil
Assumptions:	An assumption is that in case a user is providing a rating for an interest group, he/she is or has been a part of the interest group on the application
Notes and Issues:	Nil

Use Case ID:	11		
Use Case Name:	Provide rating for time commitment of a particular module		
Created By:	Somani Palak	Last Updated By:	Somani Palak
Date Created:	26/01/2021	Date Last Updated:	01/02/2021

Actors:	User, Database System
Description:	To allow users to provide a rating on the time commitment required for a given module
Trigger:	Clicking on the "Give Ratings" button
Preconditions:	1) User must have an account registered with the system 2) User must be logged into the system
Postconditions:	User's ratings will be added to existing ratings (if any) on the time commitment for the particular course
Normal Flow:	3. The user searches and opens the details for the desired course he would like to rate 4. The user clicks on "Give Ratings" 4. The user provides a rating from 1 to 5 under the "Time" field based on the time commitment for the course.
Alternative Flows:	Nil
Exceptions:	2. If the communication with the database cannot be established, then an error message "Database connection failed" is shown to the user.
Includes:	Nil
Priority:	Low (Only in case a user has completed a module and would like to share his opinions to help other users within the app planning to take the course in the future)
Frequency of Use:	Once
Business Rules:	Nil
Special Requirements:	Nil
Assumptions:	An assumption is that in case a user is providing a rating for a given course, he/she has already completed the course before
Notes and Issues:	Nil

Use Case ID:	12		
Use Case Name:	Provide rating for the difficulty level of a particular module		
Created By:	Somani Palak	Last Updated By:	Somani Palak
Date Created:	26/01/2021	Date Last Updated:	01/02/2021

Actors:	User, Database System
Description:	To allow users to provide a rating on the difficulty level of a given module
Trigger:	Clicking on the "Give Ratings" button
Preconditions:	1) User must have an account registered with the system 2) User must be logged into the system
Postconditions:	User's ratings will be added to existing ratings (if any) on the difficulty level for the particular module
Normal Flow:	1. The user searches and opens the details for the desired course he would like to rate 2. The user clicks on "Give Ratings" 3. The user provides a rating from 1 to 5 under the "Difficulty" field based on the time commitment for the course.
Alternative Flows:	Nil
Exceptions:	1. If the communication with the database cannot be established, then an error message "Database connection failed" is shown to the user.
Includes:	Nil
Priority:	Low (Only in case a user has completed a moduele and would like to share his/her opinions to help other users within the app planning to take the course in the future)
Frequency of Use:	Once
Business Rules:	Nil
Special Requirements:	Nil
Assumptions:	An assumption is that in case a user is providing a rating for a given course, he/she has already completed the course before
Notes and Issues:	Nil

Use Case ID:	13		
Use Case Name:	Provide rating for demand of a particular module		
Created By:	Somani Palak	Last Updated By:	Somani Palak
Date Created:	26/01/2021	Date Last Updated:	01/02/2021

Actors:	User, Database System
Description:	To allow users to provide a rating on the demand of a given module
Trigger:	Clicking on the "Give Ratings" button
Preconditions:	1) User must have an account registered with the system 2) User must be logged into the system
Postconditions:	User's ratings will be added to existing ratings (if any) on the demand of a particular module
Flow of Events:	1. The user searches and opens the details for the desired module he/she would like to rate 2. The user clicks on "Give Ratings" 3. The user provides a rating from 1 to 5 under the "Demand" field based on the time commitment for the course.
Alternative Flows:	Nil
Exceptions:	1. If the communication with the database cannot be established, then an error message "Database connection failed" is shown to the user.1
Includes:	Nil
Priority:	Low (Only in case a user has completed a module and would like to share his/her opinions to help other users within the app planning to take the course in the future)
Frequency of Use:	Once
Business Rules:	Nil
Special Requirements:	Nil
Assumptions:	An assumption is that in case a user is providing a rating for a given course, he/she has already completed the course before
Notes and Issues:	Nil

Use Case ID:	14		
Use Case Name:	Provide rating for entry difficulty of a particular club		
Created By:	Somani Palak	Last Updated By:	Somani Palak
Date Created:	30/01/2021	Date Last Updated:	01/02/2021

Actors:	User, Database System
Description:	To allow users to provide a rating on the entry difficulty of a particular club
Triggers:	Clicking on the "Give Ratings" button
Preconditions:	1) User must have an account registered with the system 2) User must be logged into the system
Postconditions:	User's ratings will be added to existing ratings (if any) on the entry difficulty of a particular club
Flow of Events:	1. The user searches and opens the details for the desired club he/she would like to rate 2. The user clicks on "Give Ratings" 3. The user provides a rating from 1 to 5 under the "Entry Difficulty" field
Alternative Flows:	Nil
Exceptions:	1. If the communication with the database cannot be established, then an error message "Database connection failed" is shown to the user
Includes:	Nil
Priority:	Low (Only in case a user has been part of a club and would like to share his/her opinions to help other users within the app planning to join the club in the future)
Frequency of Use:	Once
Business Rules:	Nil
Special Requirements:	Nil
Assumptions:	An assumption is that in case a user is providing a rating for a given club, he/she was/is a part of the club
Notes and Issues:	Nil

Use Case ID:	15		
Use Case Name:	Provide rating for time commitment of a particular club		
Created By:	Somani Palak	Last Updated By:	Somani Palak
Date Created:	30/01/2021	Date Last Updated:	01/02/2021

Actors:	User, Database System
Description:	To allow users to provide a rating on the time commitment of a particular club
Triggers:	Clicking on the "Give Ratings" button
Preconditions:	1) User must have an account registered with the system 2) User must be logged into the system
Postconditions:	User's ratings will be added to existing ratings (if any) on the time commitment of a particular club
Flow of Events:	1. The user searches and opens the details for the desired club he/she would like to rate 2. The user clicks on "Give Ratings" 3. The user provides a rating from 1 to 5 under the "Time Commitment" field
Alternative Flows:	Nil
Exceptions:	1. If the communication with the database cannot be established, then an error message "Database connection failed" is shown to the user.1
Includes:	Nil
Priority:	Low (Only in case a user has been part of a club and would like to share his/her opinions to help other users within the app planning to join the club in the future)
Frequency of Use:	Once
Business Rules:	Nil
Special Requirements:	Nil
Assumptions:	An assumption is that in case a user is providing a rating for a given club, he/she was/is a part of the club
Notes and Issues:	Nil

Use Case ID:	16		
Use Case Name:	Provide rating for the learning from a particular club		
Created By:	Somani Palak	Last Updated By:	Somani Palak
Date Created:	30/01/2021	Date Last Updated:	01/02/2021

Actors:	User, Database System
Description:	To allow users to provide a rating on the learning from a particular club
Triggers:	Clicking on the "Give Ratings" button
Preconditions:	1) User must have an account registered with the system 2) User must be logged into the system
Postconditions:	User's ratings will be added to existing ratings (if any) on the learning from a particular club
Flow of Events:	1. The user searches and opens the details for the desired club he/she would like to rate 2. The user clicks on "Give Ratings" 3. The user provides a rating from 1 to 5 under the "Learning" field based on the learning from the club.
Alternative Flows:	Nil
Exceptions:	1. If the communication with the database cannot be established, then an error message "Database connection failed" is shown to the user.1
Includes:	Nil
Priority:	Low (Only in case a user has been part of a club and would like to share his/her opinions to help other users within the app planning to join the club in the future)
Frequency of Use:	Once
Business Rules:	Nil
Special Requirements:	Nil
Assumptions:	An assumption is that in case a user is providing a rating for a given club, he/she was/is a part of the club
Notes and Issues:	Nil

Use Case ID:	17		
Use Case Name:	Search		
Created By:	Somani Palak	Last Updated By:	Somani Palak
Date Created:	26/01/2021	Date Last Updated:	01/02/2021

Actors:	User, Database System
Description:	To allow users to look up details about a particular module, club or interest groups.
Triggers:	Clicking on the "search" button
Preconditions:	1) User must have an account registered with the system 2) User must be logged into the system
Postconditions:	All modules, club or interest groups matching the search query will be displayed
Flow of Events:	1. The user clicks on the search button 2. The user enters the module, club or interest group name and clicks "search" 3. All matching module, club or interest groups will be displayed
Alternative Flows:	Nil
Exceptions:	If the communication with the database cannot be established, then an error message "Database connection failed" is shown to the user. 1. If no module, club or interest groups meeting the search query are found, the system displays a message - "No results matching your search query can be found"
Includes:	Nil
Priority:	Low (Only in case a user wishes to look up into details of a particular module, club or interest group)
Frequency of Use:	Once
Business Rules:	Nil
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	18		
Use Case Name:	Create Group		
Created By:	Bhatia Ritik	Last Updated By:	Bhatia Ritik
Date Created:	27/01/2021	Date Last Updated:	30/01/2021

Actors:	User, Database System
Description:	To allow users to create groups having people of common interests
Trigger:	Clicking on the '+' floating button in the Groups Recommendation page
Preconditions:	1. User must have an account registered with the system 2. User must be logged into the system 3. User must be on the Group Recommendation Page
Postconditions:	A new group with the user's specifications will be created
Normal Flow:	1. The user clicks on the **'+'** button 2. The page to create a new group opens up, where the user specifies details for the group 3. The new group is created and is recommended to future users with similar interests
Alternative Flows:	1. User clicks on the 'Create Group' button 2. User chooses to cancel the operation and stops midway 3. No new group is selected, transaction is aborted and the user is taken back to the group recommendation page
Exceptions:	1. If user attempts to create account without specifying all information, application notifies the user to provide all necessary information
Includes:	Nil
Priority:	Medium
Frequency of Use:	Once, every time wishes to create a new group
Business Rules:	The user should not create groups for explicit content as it goes against the application's rules of conduct for use
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	19		
Use Case Name:	Filter		
Created By:	Bhatia Ritik	Last Updated By:	Bhatia Ritik
Date Created:	27/01/2021	Date Last Updated:	29/01/2021

Actors:	User, Database System
Description:	To allow users to filter recommendations based on various options such as time commitment, demand, and difficulty
Trigger:	Clicking on the 'Filter' button in the recommendation pages
Preconditions:	1. User must have an account registered with the system 2. User must be logged into the system
Postconditions:	All module, club or interest groups matching the filtering criteria will be displayed
Normal Flow:	1. The user clicks on the filter button 2. The user specifies the rating regarding difficulty, time commitment and / or demand, to search specific results 3. All matching modules, clubs or interest groups will be displayed
Alternative Flows:	1. The user clicks on the filter button 2. User cancels the operation without specifying the filter criteria 3. Transaction is cancelled and the user is taken back to the recommendation page without applying any filters
Exceptions:	1. If the communication with the database cannot be established, then an error message "Database connection failed" is shown to the user. 2. If no modules, clubs or interest groups meeting the filter options are found, the system displays a message - "No results matching your filters can be found"
Includes:	Nil
Priority:	Low (Only in case a user wishes to look up specific modules, clubs and groups)
Frequency of Use:	Once every time the user wants to filter results
Business Rules:	Nil
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil