
Use Cases

for

SC2006: Software Engineering

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version
Luu Minh Thang	5/9/2024	Update docs	1.0
Luu Minh Thang	2/9/2024	Create docs	1.0

Use Case Template

Use Case ID:			
Use Case Name:			
Created By:		Last Updated By:	
Date Created:		Date Last Updated:	

Actor:	
Description:	
Preconditions:	
Postconditions:	
Priority:	
Frequency of Use:	
Flow of Events:	
Alternative Flows:	
Exceptions:	
Includes:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	A01		
Use Case Name:	Login		
Created By:	Luu Minh Thang	Last Updated By:	Luu Minh Thang
Date Created:	2/9/2024	Date Last Updated:	5/9/2024

Actor:	User
Description:	Users log into the system by providing their username and password.
Preconditions:	The user has an account.
Postconditions:	The user is authenticated and redirected to the explore page.
Priority:	High
Frequency of Use:	Low
Flow of Events:	<ol style="list-style-type: none"> 1. User enters username and password. 2. System checks the username and password. 3. If credentials are valid, the user is logged in and taken to the explore page. 4. If credentials are invalid, the user is prompted with an error message. 5. If incorrect credentials are entered five consecutive times, the account is locked.
Alternative Flows:	1.1. If the user has forgotten their password, they can use the "Forgot Password" functionality.
Exceptions:	Show errors if user type in wrong username/password
Includes:	Check Username/Password, Forgot Password
Special Requirements:	None
Assumptions:	User has internet access.
Notes and Issues:	None

Use Case ID:	A02		
Use Case Name:	Create Account		
Created By:	Luu Minh Thang	Last Updated By:	Luu Minh Thang
Date Created:	2/9/2024	Date Last Updated:	5/9/2024

Actor:	User
Description:	New users can create an account by providing the required details.
Preconditions:	The user does not have an account.
Postconditions:	The user's account is created and they are logged in automatically.
Priority:	Very High
Frequency of Use:	Very Low
Flow of Events:	<ol style="list-style-type: none"> 1. User selects the "Create Account" option. 2. User fills in required fields: language, username, password, email. 3. System verifies email and username availability. 4. User accepts terms and conditions. 5. Account is created and the user is redirected to the profile setup.
Alternative Flows:	<ol style="list-style-type: none"> 3.1. If username exists, show "User already exists". 3.2. Go back to step 2
Exceptions:	None
Includes:	None
Special Requirements:	Email verification
Assumptions:	User provides valid information.
Notes and Issues:	None

Use Case ID:	A03		
Use Case Name:	Forgot Password		
Created By:	Luu Minh Thang	Last Updated By:	Luu Minh Thang
Date Created:	2/9/2024	Date Last Updated:	5/9/2024

Actor:	User
Description:	Users who forgot their password can reset it by providing their email.
Preconditions:	The user must have an account and know the email associated with it.
Postconditions:	The user receives an email with instructions to reset their password.
Priority:	Low
Frequency of Use:	Low
Flow of Events:	<ol style="list-style-type: none"> 1. User selects the "Forgot Password" option. 2. User enters their email address. 3. System checks if the email is associated with an existing account. 4. If yes, an email is sent with password reset instructions.
Alternative Flows:	None
Exceptions:	Show message "User not found" if cannot retrieve from database
Includes:	None
Special Requirements:	Email system functionality
Assumptions:	User has access to their email.
Notes and Issues:	None

Use Case ID:	A04		
Use Case Name:	Manage Profile		
Created By:	Luu Minh Thang	Last Updated By:	Luu Minh Thang
Date Created:	2/9/2024	Date Last Updated:	5/9/2024

Actor:	User
Description:	Users can view and edit their profile information, including their preferences and joined groups.
Preconditions:	The user is logged in.
Postconditions:	Changes to the profile are saved and updated.
Priority:	Medium
Frequency of Use:	Low
Flow of Events:	<ol style="list-style-type: none"> 1. User navigates to the profile page. 2. User selects the "Edit Profile" option. 3. User updates their area, activity preferences, language, email, password and username. 4. User saves changes, and the profile is updated across the app.
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	User already logged in
Assumptions:	User provides accurate information.
Notes and Issues:	None

Use Case ID:	A05		
Use Case Name:	Explore Facilities		
Created By:	Luu Minh Thang	Last Updated By:	Luu Minh Thang
Date Created:	2/9/2024	Date Last Updated:	5/9/2024

Actor:	User
Description:	Users can view a list of nearby facilities, filtered by preferences and location.
Preconditions:	The user is logged in and has set their preferences.
Postconditions:	The user views available facilities.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> 1. User navigates to the explore page. 2. The system loads a list of facilities based on the user's preferences and location. 3. User can search and filter facilities. 4. User can view detailed information about each facility.
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	Location access
Assumptions:	User has enabled location services.
Notes and Issues:	None

Use Case ID:	A06		
Use Case Name:	View Interest Groups		
Created By:	Luu Minh Thang	Last Updated By:	Luu Minh Thang
Date Created:	2/9/2024	Date Last Updated:	5/9/2024

Actor:	User
Description:	Users can view a list of interest groups available in their area.
Preconditions:	The user is logged in.
Postconditions:	The user views available interest groups.
Priority:	High
Frequency of Use:	Very high
Flow of Events:	<ol style="list-style-type: none"> 1. User navigates to the community page. 2. The system loads a list of interest groups based on the user's preferences and area. 3. User can browse through the list and view detailed information about each group.
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	A07		
Use Case Name:	Join group		
Created By:	Luu Minh Thang	Last Updated By:	Luu Minh Thang
Date Created:	2/9/2024	Date Last Updated:	5/9/2024

Actor:	User
Description:	Users can join an interest group from the list of available groups.
Preconditions:	The user is logged in and has found a group of interest.
Postconditions:	The user joins the selected group.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> 1. User selects an interest group from the community page. 2. User clicks on the "Join Group" button. 3. The system adds the user to the group, and the group appears on the user's profile.
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	User logged in
Assumptions:	None
Notes and Issues:	None

Use Case ID:	A08		
Use Case Name:	Leave Group		
Created By:	Luu Minh Thang	Last Updated By:	Luu Minh Thang
Date Created:	2/9/2024	Date Last Updated:	5/9/2024

Actor:	Users
Description:	Users can leave an interest group they have joined.
Preconditions:	The user is logged in and is a member of the group.
Postconditions:	The user leaves the group, but their RSVP status for any events remains unchanged.
Priority:	High
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. User navigates to the profile page. 2. User selects the group they wish to leave. 3. User clicks on the "Leave Group" button. 4. The system removes the user from the group, and the group no longer appears on the user's profile.
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	A09		
Use Case Name:	Create Group		
Created By:	Luu Minh Thang	Last Updated By:	Luu Minh Thang
Date Created:	2/9/2024	Date Last Updated:	5/9/2024

Actor:	User
Description:	Users can create a new interest group.
Preconditions:	The user is logged in and has identified a need for a new group.
Postconditions:	A new interest group is created and pending approval by an administrator.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> 1. User navigates to the community page and clicks on the "Create New Group" button. 2. User fills out the form with the group details: activity type, residential area, group name, and description. 3. The system submits the group for approval by an administrator.
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	Administrator approval
Assumptions:	None
Notes and Issues:	None

Use Case ID:	A10		
Use Case Name:	Create Meet-Up		
Created By:	Luu Minh Thang	Last Updated By:	Luu Minh Thang
Date Created:	2/9/2024	Date Last Updated:	5/9/2024

Actor:	User
Description:	Users can schedule a meet-up event within an interest group.
Preconditions:	The user is logged in and is a member of an interest group.
Postconditions:	The meet-up event is created and visible to group members.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> 1. User navigates to the interest group page and clicks on the "Schedule Meet-Up" button. 2. User fills out the meet-up form with the date, time, location, and description. 3. The system checks for any schedule conflicts. 4. If no conflicts are found, the meet-up is created and added to the group's event list.
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	A11		
Use Case Name:	Join Meet-Up		
Created By:	Luu Minh Thang	Last Updated By:	Luu Minh Thang
Date Created:	2/9/2024	Date Last Updated:	5/9/2024

Actor:	User
Description:	Users can RSVP to meet-up events within their interest groups
Preconditions:	The user is logged in and is a member of the group hosting the meet-up.
Postconditions:	The user's RSVP status is updated.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> 1. User navigates to the meet-up event on the interest group page. 2. User selects their RSVP status: "Yes" or "No". 3. The system updates the user's RSVP status. 4. If the user RSVPs "Yes", the event is added to their profile page.
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	A12		
Use Case Name:	Receive Notifications		
Created By:	Luu Minh Thang	Last Updated By:	Luu Minh Thang
Date Created:	2/9/2024	Date Last Updated:	5/9/2024

Actor:	Users
Description:	Users receive notifications about upcoming events, approvals, and RSVPs.
Preconditions:	The user is logged in and has enabled notifications.
Postconditions:	The user receives notifications as per their preferences.
Priority:	Very Low
Frequency of Use:	Very High
Flow of Events:	<ol style="list-style-type: none"> 1. The system sends notifications to the user about upcoming events, approvals, and RSVPs. 2. The user receives the notifications based on their notification preferences.
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	Notification settings
Assumptions:	None
Notes and Issues:	None

Use Case ID:	A13		
Use Case Name:	Configure Notification Preferences		
Created By:	Luu Minh Thang	Last Updated By:	Luu Minh Thang
Date Created:	2/9/2024	Date Last Updated:	5/9/2024

Actor:	User
Description:	Users can customize which notifications they receive.
Preconditions:	The user is logged in.
Postconditions:	The user's notification preferences are updated.
Priority:	Very Low
Frequency of Use:	Very Low
Flow of Events:	<ol style="list-style-type: none"> 1. User navigates to the notification settings page. 2. User selects or deselects the types of notifications they wish to receive. 3. The system saves the user's preferences.
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None