



CAPSTONE PROJECT REPORT

Report 3 – Software Requirement Specification

– Hanoi, December 2024 –

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I. Record of Changes

Date	A* M, D	In charge	Change Description
10/09/2024	A	HauNX	Initiation
11/09/2024	A	HauNX	Add context diagram
12/09/2024	A	ThuyDTT	Add function description for use case in iteration 1
15/09/2024	A	ManhDD	Add function description for use case in iteration 1 (Account Management)
14/09/2024	A	PhucND	Add function description for use case in iteration 1 (Student Management)
15/09/2024	A	NinhNT	Add function description for use case in iteration 1 (Course Management)
15/09/2024	A	HauNX	Add screen flow and description, screen authorization
15/09/2024	A	ThuyDTT	Add use case diagram & description
16/09/2024	A	ThuyDTT	Add entity relationship diagram & description
11/10/2024	M	HauNX	Edit use case diagram, screen flow and and use case description for iteration 2
02/11/2024	M	PhucND	Edit use case diagram, screen flow and and use case description for iteration 3
24/11/2024	M	NinhNT	Edit use case diagram, screen flow and and use case description for iteration 4
24/11/2024	M	ManhDD	Edit Functional Requirement (sort and numbering)

*A - Added M - Modified D - Deleted

II. Software Requirement Specification

1. Product Overview

1.1 Context Diagram

The "Cultivation Course Management System for Co Loan Pagoda" is designed to streamline the organization and operation of summer cultivation course activities. The system provides key functionalities such as participant and volunteer registration, night shift management, and the ability to generate reports during the course. It aims to increase efficiency, reduce manual tasks, and improve the overall experience for participants and organizers. Core features include online registration, personal information management, and tools for fostering communication between participants and instructors. It also integrates reporting and statistical analysis to assist organizers in evaluating and adjusting activities.

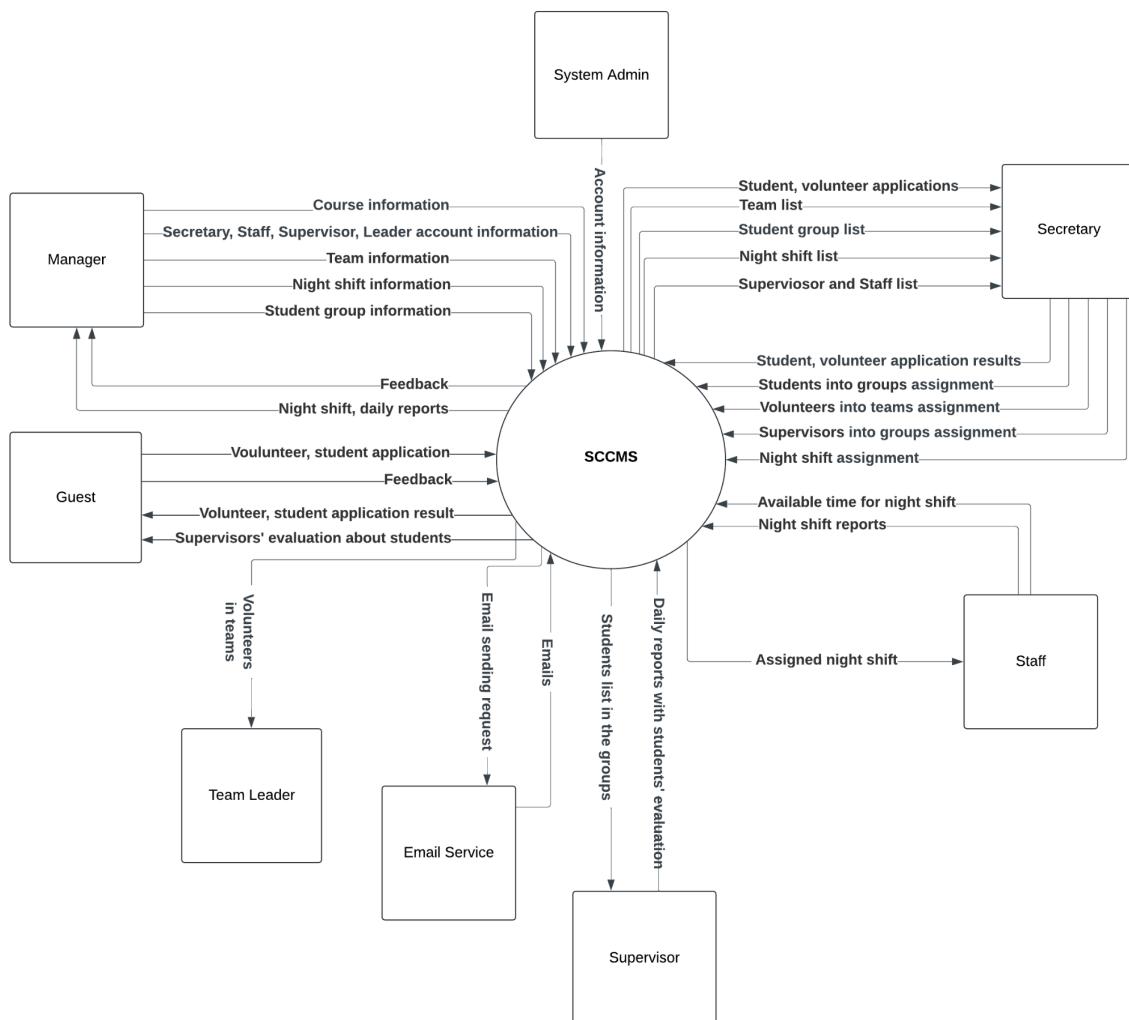


Figure 1: Context Diagram for the system

The link of context diagram: [Context Diagram](#)

The system is primarily built for seven main user roles: system admin, manager, secretary, staff, team leaders, supervisor and guest, each with customized features. This application is especially beneficial for secretaries because it can reduce the time spent on manual activities to a minimum, such as automatically creating cards for students, volunteers and leaders, automatically dividing classes, and sending mass mails. At the same time, the system also helps improve the process of viewing and sending reports to managers and staff.

1.2 Main Workflows

1.2.1 Initialize and setup cultivation course

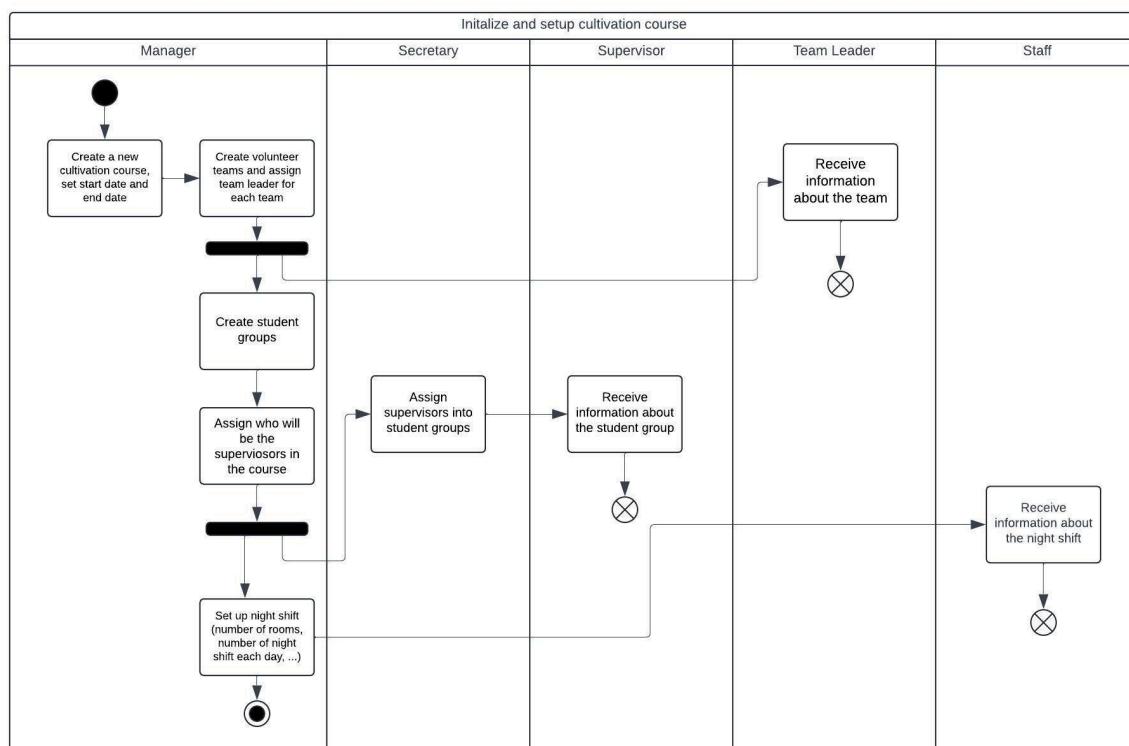


Figure 2 : Swimlane diagram of initializing and setup cultivation course

The link of swimlane diagram: [Swimlane - Initialize and setup cultivation course](#)

1.2.2 Manage student from registration to graduation

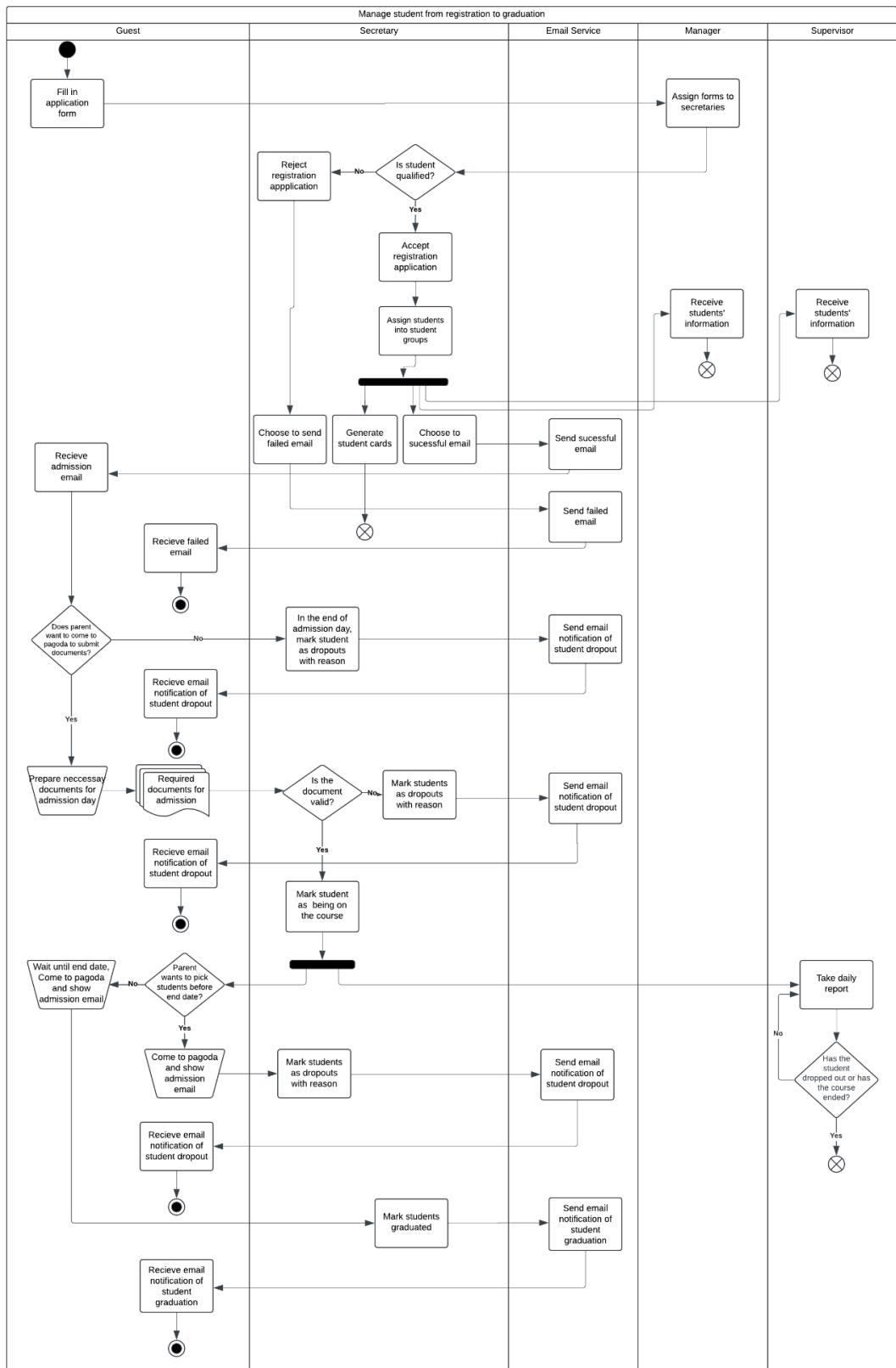


Figure 3: Swimlane diagram of managing students from registration to graduation

The link of swimlane diagram: [Swimlane - Manage student from registration to graduation](#)

1.2.3 Manage volunteer from registration to end date

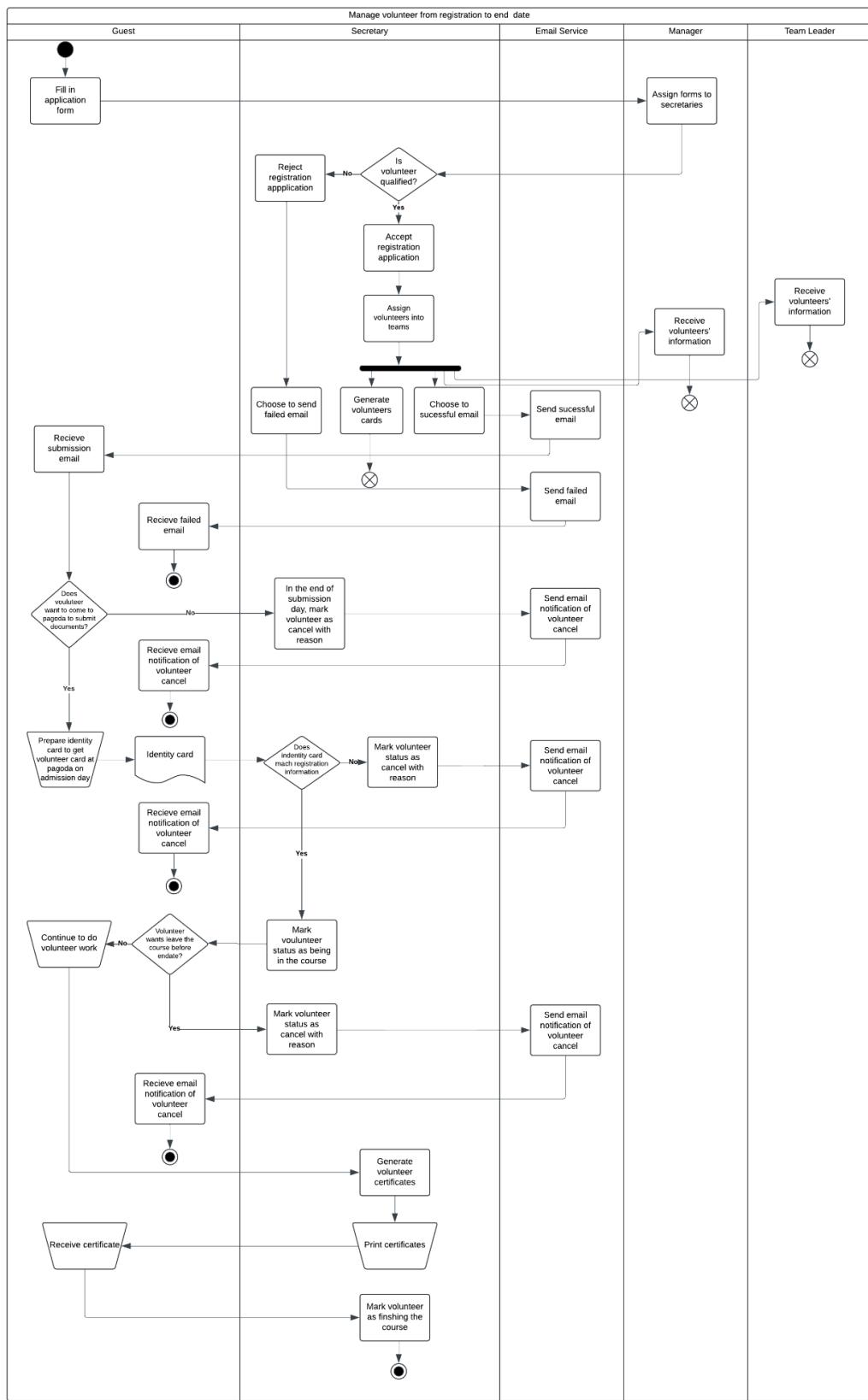


Figure 4: Swimlane diagram of managing volunteer from registration to end date

The link of swimlane diagram: [Swimlane - Manage volunteer from registration to end date](#)

1.2.4 Manage Night Shift

The main process for assigning the shift scheduling tasks to employees is based on the Greedy Algorithm. The goal is to ensure that each shift in the departments is allocated enough employees according to the gender and number requirements, while respecting the availability of each employee during the period from the start date to the end date of the course

Candidates: The Candidate Set is a list of employees who can be assigned to shifts. Each candidate (employee) has information about their availability and gender, which is provided by the system input.

Selection Function: Select employees whose availability matches the shift duration and meets the gender and number requirements for the department.

Feasibility Function: Checks whether a candidate can be assigned to a shift.

Objective Function: Evaluate the number of employees assigned to each room in each shift, so that the required number and gender are met. Ensure that all shifts have enough employees to meet the gender requirements.

Evaluation Function: The solution is considered complete when all shifts have been assigned enough employees according to the number and gender requirements and no employees have duplicate schedules or all employees have been scheduled.

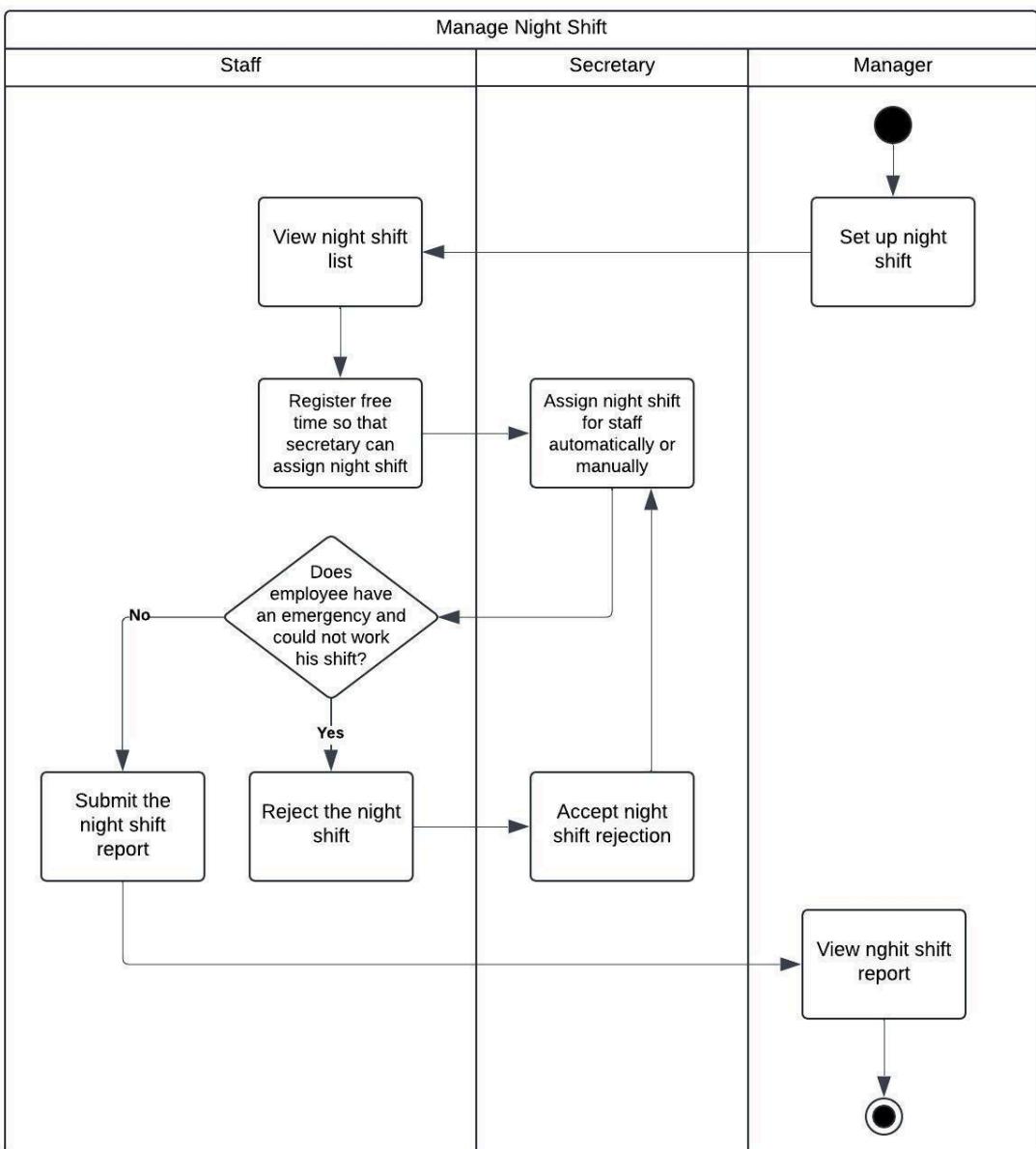


Figure 5: Swimlane diagram of managing the night shift

The link of swimlane diagram: [Swimlane - Manage Night Shift](#)

2. User Requirements

2.1 Actors

#	Actor	Description
1	System admin	System admins manage the accounts of managers
2	SCCMS's User	Includes actors that interact with the system such as: secretary, staff, team leader, supervisor, manager, admin
3	Manager	As a monk in the pagoda, responsible for managing all cultivation courses. Managers oversee the creation and management of courses, teams, and staff. They need to be aware of night shift assignments, reports, and also manage posts and view feedback.
4	Secretary	As a Buddhist follower of the pagoda, responsible for managing personnel. The secretary will assign and arrange volunteers into teams and distribute students into groups.
5	Staff	As a Buddhist follower of the pagoda, responsible for managing volunteers, overseeing a group of students, or participating in night shifts.
6	Team leader	In the pagoda, there are usually divisions such as: mobile division, cleaning division, cooking division, etc. The team leader is the head of the division, the person who manages these divisions.
7	Supervisor	In a course that will include many classes, the Supervisor will be the one to manage the students and submit reports.
8	Guest	As someone who can view posts, submit registration forms for their child to join the cultivation course, and register to become a volunteer.
9	Email service	As a service that sends emails to parents, volunteers, and sends notification emails.

Table 1: Actor description

2.2 Use Cases

2.2.1 Diagram(s)

2.2.1.1. The relationship of actors in the system

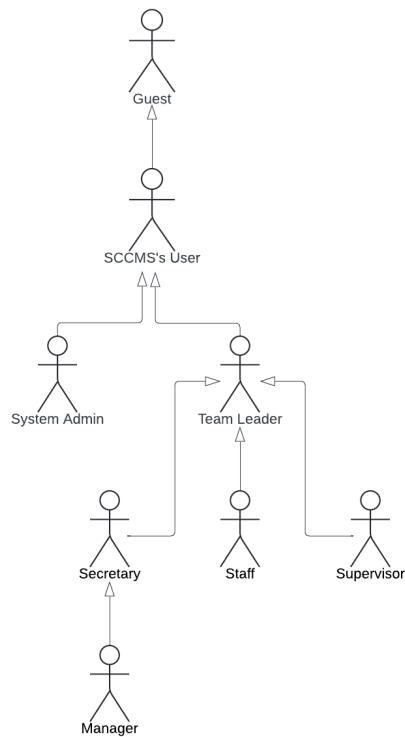


Figure 6: The relationship between the actors in the system

The link of relationship between the actors in the system: [Use case diagram](#)

2.2.1.2. Use cases for Guest

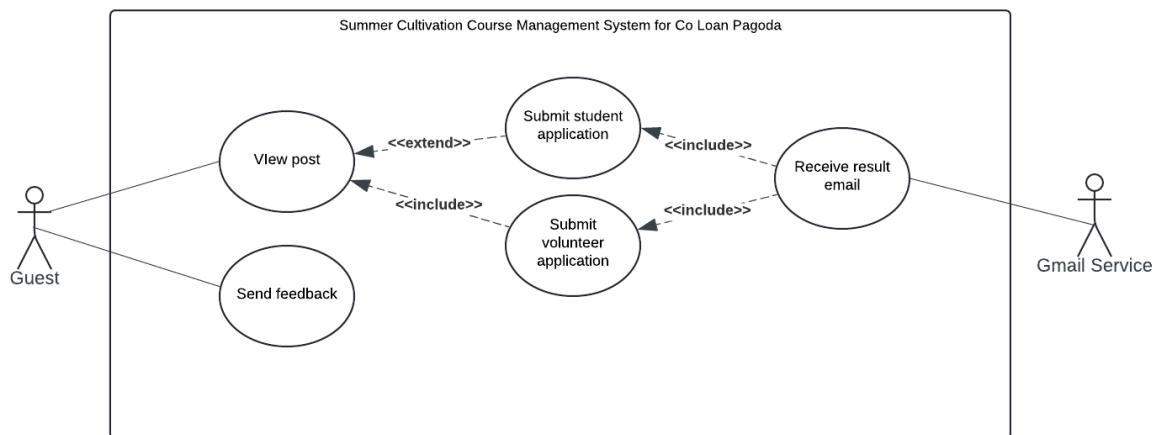


Figure 7: Use case diagram for guest

The link of Use case diagram for guest: [Use case diagram](#)

2.2.1.3. Use cases for SCCMS's User

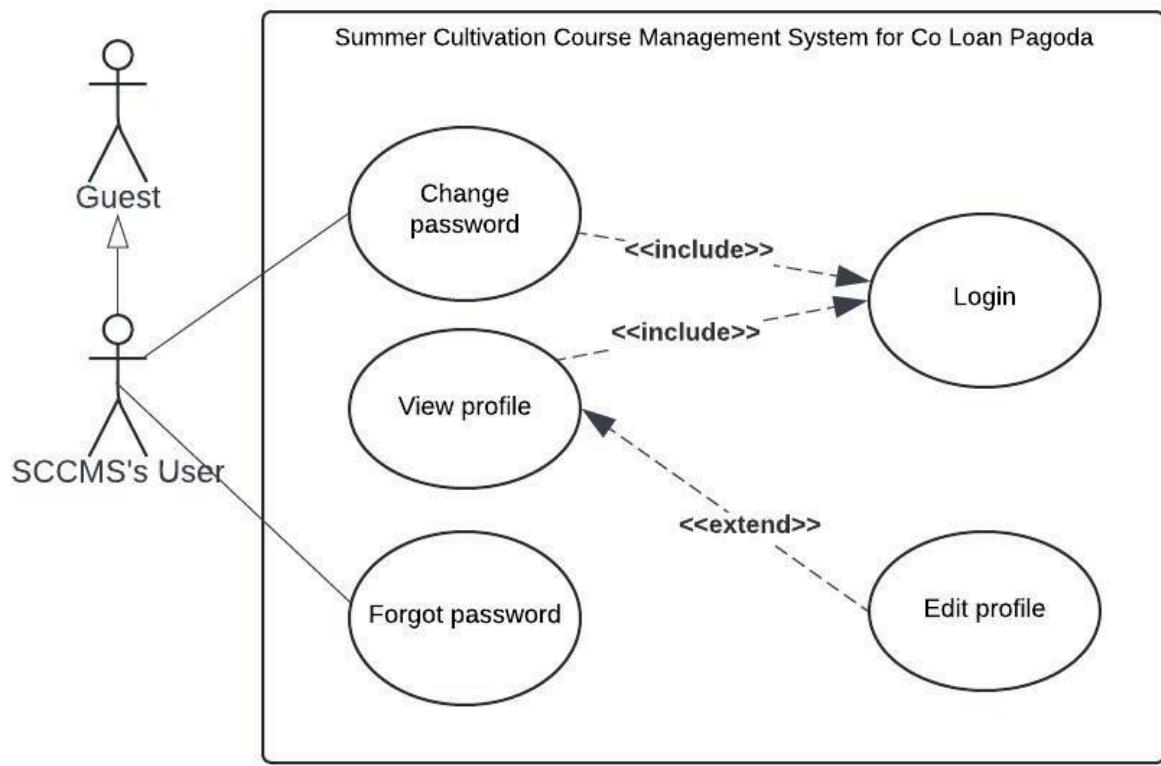


Figure 8: Use case diagram for SCCMS's user

The link of Use case diagram for user: [Use case diagram](#)

2.2.1.4. Use cases for Admin

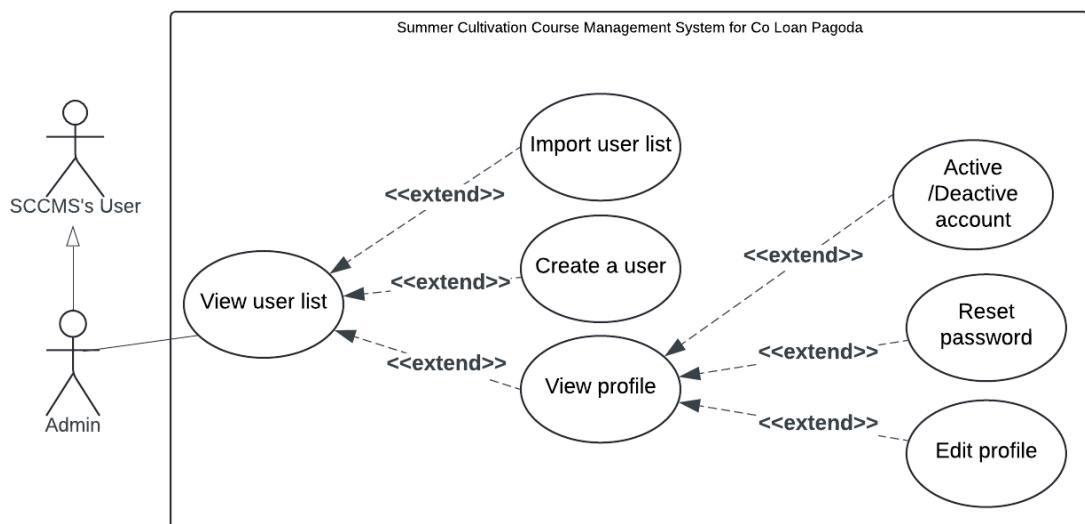


Figure 9: Use case diagram for admin

The link of Use case diagram for admin: [Use case diagram](#)

2.2.1.5. Use cases for Team Leader

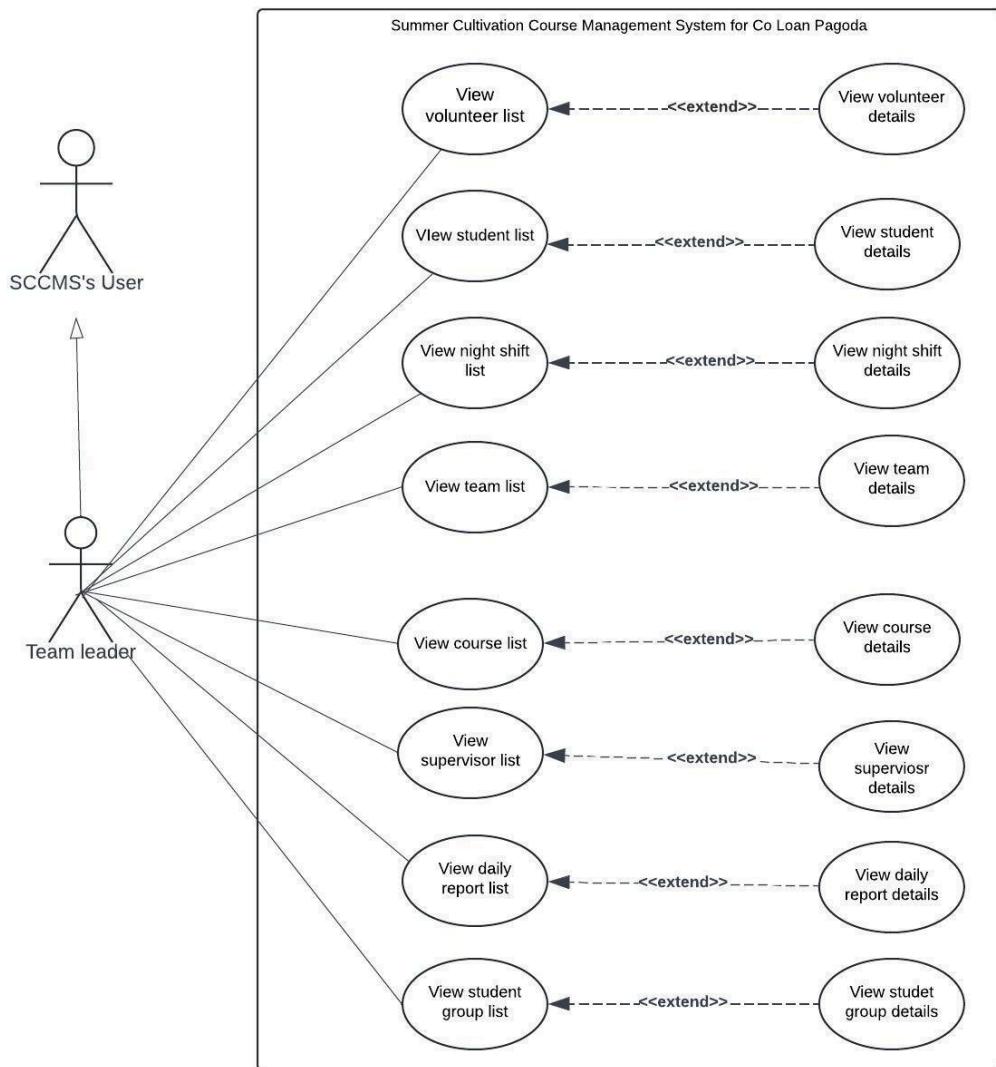


Figure 10: Use case diagram for team leader

The link of Use case diagram for team leader: [Use case diagram](#)

2.2.1.6. Use cases for Staff

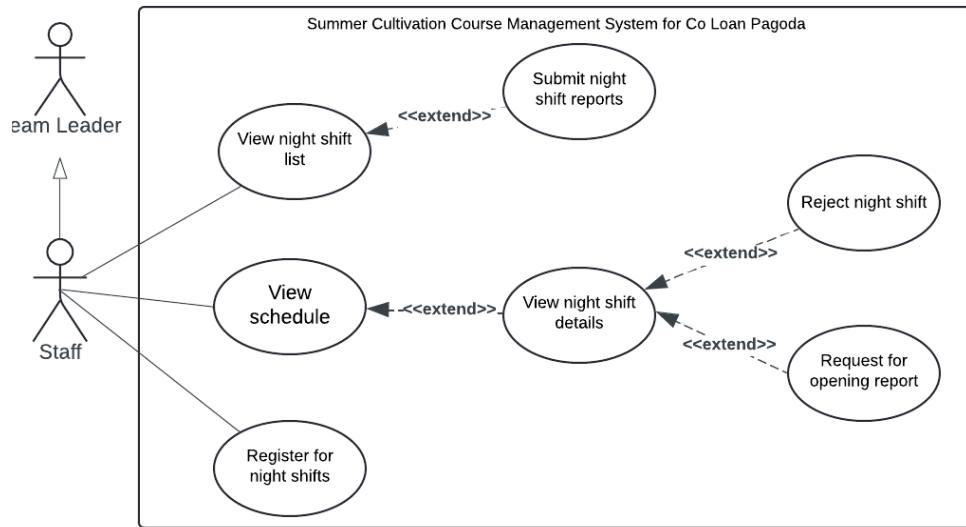


Figure 11: Use case diagram for staff

The link of Use case diagram for staff: [Use case diagram](#)

2.2.1.7. Use cases for Supervisor

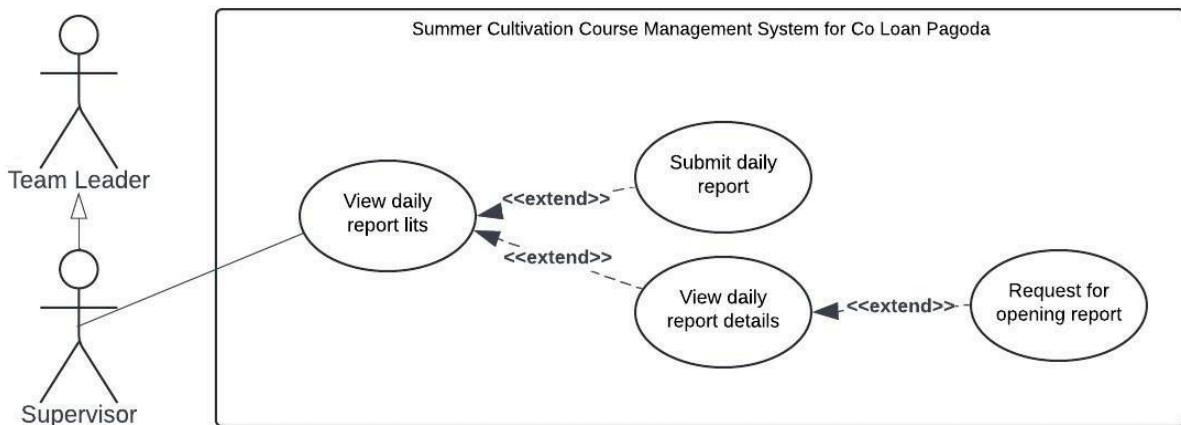
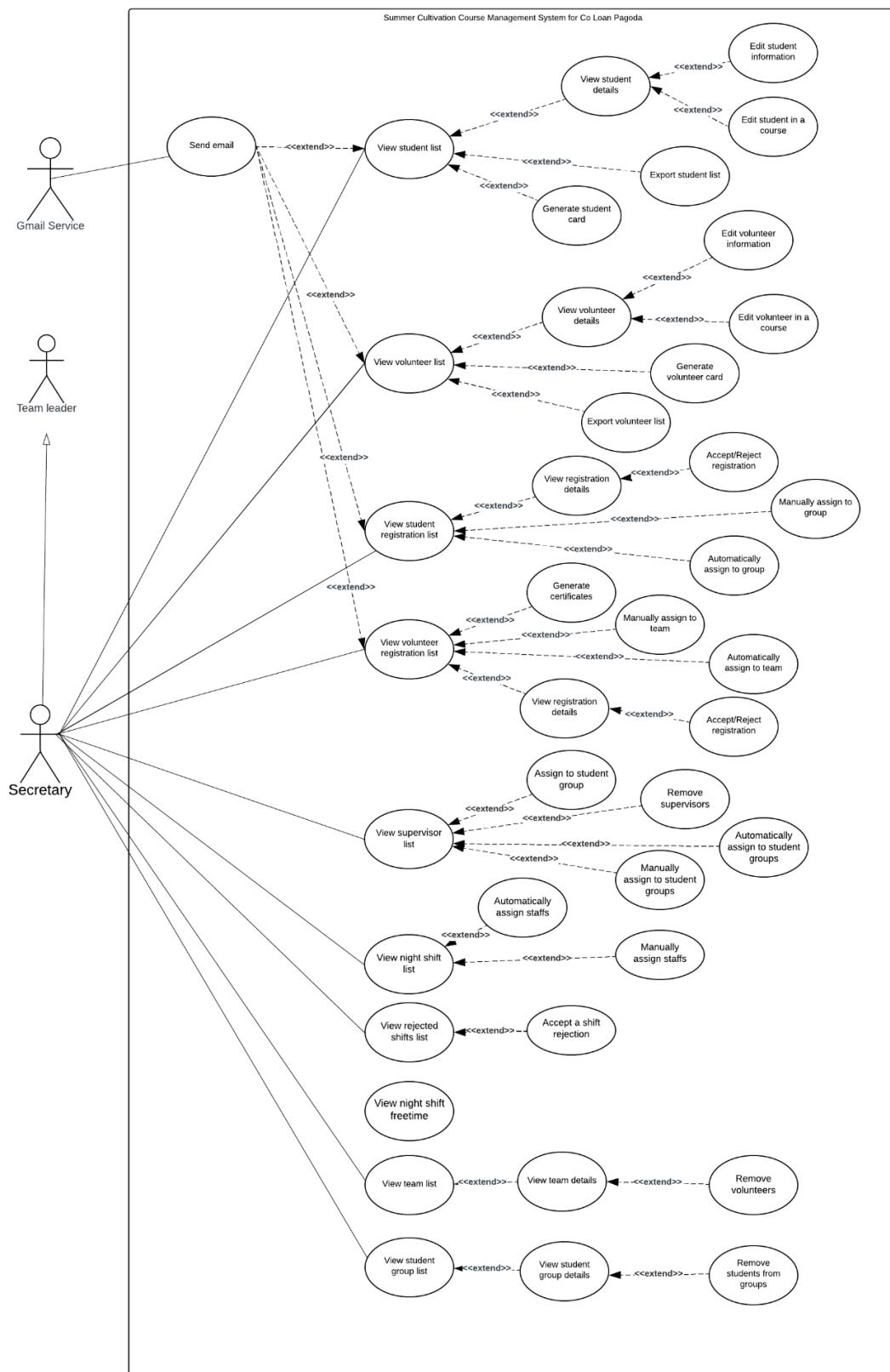


Figure 12: Use case diagram for supervisor

The link of Use case diagram for supervisor: [Use case diagram](#)

2.2.1.9. Use cases for Secretary



*Figure 13: Use case diagram for secretary
The link of Use case diagram for secretary: [Use case diagram](#)*

2.2.1.10. Use cases for Manager



Figure 14: Use case diagram for manager
The link of Use case diagram for manager: [Use case diagram](#)

2.2.2 Descriptions

ID	Use Case	Actors	Use Case Description
UC-01	Login	System Admin, Manager, Secretary, Staff, Team Leader, Supervisor	Enables users to authenticate and gain access to the system by entering valid credentials.
UC-02	Logout	System Admin, Manager, Secretary, Staff, Team Leader, Supervisor	Enables users to logout from the system.
UC-03	View profile	System Admin, Manager, Secretary, Staff, Team Leader, Supervisor	Allows users to view their personal profile information, including personal details. System Admin can view profile of managers and managers can view profile of Secretary, Staff, Team Leader, Supervisor.
UC-04	Edit profile	System Admin, Manager, Secretary, Staff, Team Leader, Supervisor	Allows users to edit and update their personal profile information to keep it current and accurate. System Admin can edit profile of managers and managers can edit profile of Secretary, Staff, Team Leader, Supervisor.
UC-05	View user list	System Admin, Manager	Allows system admins and managers to view a list of all user accounts within the system for management purposes.
UC-06	Change password	System Admin, Manager, Secretary, Staff, Team Leader, Supervisor	Allows users to change their account password to maintain or enhance account security.

UC-07	Forgot password	System Admin, Manager, Secretary, Staff, Team Leader, Supervisor	Provides a mechanism for users to reset their password if forgotten, through email verification.
UC-08	Reset user password	System Admin, Manager	Enables admins to reset a manager's password and managers to reset password of secretary, staff, team leader and supervisor.
UC-09	Create a user	System Admin, Manager	Allows administrators to create a new user account individually, specifying all necessary details.
UC-10	Import user list	System Admin, Manager	Enables the importation of user account data from Excel files into the system.
UC-11	Activate/ Deactivate account	System Admin, Manager	Allows system admins and managers to activate or deactivate user accounts, controlling user access to the system. System admin has the right to activate or deactivate managers' accounts, whereas managers can activate or deactivate accounts of secretary, staff, team leader and supervisor.
UC-12	View course list	Manager, Secretary, Staff, Team Leader, Supervisor	Allows users to view a list of all courses.
UC-13	Create course	Manager	Enables the manager to create a new course by specifying all necessary information.
UC-14	View course details	Manager, Secretary, Staff, Team Leader, Supervisor	Enables users to view detailed information about a specific course.
UC-15	Edit course	Manager	Allows the manager to modify course details.

UC-16	Start a course	Manager	Allows the manager start recruiting
UC-17	Lock course	Manager	Allows the manager to lock a course, preventing further enrollments or modifications.
UC-18	Submit student application form	Guest	Enables users to submit an application form to enroll as a student in a course or program.
UC-19	View student registration list	Manager, Secretary	Allows viewing of all student registration applications for review and processing.
UC-20	View registration details	Manager, Secretary	Enables viewing detailed information of a specific student registration application.
UC-21	Accept/Reject registration	Manager, Secretary	Allows the manager or secretary to approve or deny student registration applications based on eligibility criteria.
UC-22	View student list	Manager, Secretary, Staff, Team Leader, Supervisor	Enables viewing a list of all enrolled students within the system.
UC-23	View student details	Manager, Secretary, Staff, Team Leader, Supervisor	Enables viewing detailed information about a specific student, including contact information and student status.
UC-24	Edit student information	Manager, Secretary	Allows editing of student information to keep records accurate and up-to-date.
UC-25	Edit student in course	Manager, Secretary	Enables editing of student enrollment within a specific course.
UC-26	Automatically assign registrations to secretaries	Manager, Secretary	Enables the system to automatically assign student registration applications to secretaries based on predefined criteria.

UC-27	Automatically assign students to groups	Manager, Secretary	Allows the system to automatically assign enrolled students to groups based on specific rules or criteria.
UC-28	Manually assign students to group	Manager, Secretary	Enables manual assignment of students to specific groups as needed.
UC-29	Export student list	Manager, Secretary	Allows exporting the student list to external files or formats for reporting or analysis purposes.
UC-30	Generate student cards	Manager, Secretary	Enables the creation of student identification cards containing relevant student information.
UC-31	Send email	Manager, Secretary	Allows sending emails to users for notifications, updates, or communications related to their accounts or activities within the system.
UC-32	View student group list	Manager, Secretary, Staff, Team Leader, Supervisor	Enables viewing a list of all student groups within the system.
UC-33	Add student group	Manager	Allows the manager to create new student groups for organizational purposes.
UC-34	Edit student group	Manager	Enables the manager to modify the details of existing student groups.
UC-35	View student group details	Manager, Secretary, Staff, Team Leader, Supervisor	Allows viewing detailed information about a specific student group.
UC-36	Remove students from student group	Manager, Secretary	Enables removal of students from a group as needed.

UC-37	View student's evaluation	Guest	Enables user to get evaluation about student by input the course and input student code on the homepage
UC-38	Delete student group	Manager	Enables the manager to delete a student group from the system when it's no longer needed.
UC-39	View supervisor list	Manager, Secretary, Staff, Team Leader, Supervisor	Allows viewing a list of supervisors involved in courses or student groups.
UC-40	Add supervisors	Manager	Enables the manager to assign supervisors to courses for instructional or oversight purposes.
UC-41	Delete supervisor	Manager, Secretary	Enables removal of supervisors from student groups as necessary.
UC-42	Manually assign supervisors to student group	Manager, Secretary	Enables assignment of supervisors to specific student groups manually.
UC-43	Automatically assign supervisors to student group	Manager, Secretary	Allows the system to automatically assign supervisors to student groups based on predefined criteria.
UC-44	View team list	Manager, Secretary, Staff, Team Leader, Supervisor	Enables viewing a list of teams within the organization or system.
UC-45	View team details	Manager, Secretary, Staff, Team Leader, Supervisor	Allows viewing detailed information about a specific team, including members and objectives.
UC-46	Add team	Manager	Enables the manager to form new teams.
UC-47	Edit team	Manager	Enables the manager to modify team information.

UC-48	Delete team	Manager	Allows the manager to remove a team from the system when it's no longer active.
UC-49	Remove volunteers from team	Manager, Secretary	Enables removal of volunteers from teams as needed.
UC-50	Submit volunteer application	Guest	Allows individuals to apply to become volunteers of the cultivation course.
UC-51	View volunteer registration list	Manager, Secretary	Enables viewing of all volunteer applications submitted for review.
UC-52	View volunteer registration details	Manager, Secretary	Enables viewing detailed information of a specific volunteer application.
UC-53	Accept/Reject volunteer registration	Manager, Secretary	Enables approval or rejection of volunteer applications based on eligibility and need.
UC-54	View volunteer list	Manager, Secretary, Staff, Team Leader, Supervisor	Allows viewing a list of all active volunteers within the organization.
UC-55	View volunteer details	Manager, Secretary, Staff, Team Leader, Supervisor	Enables viewing detailed information about a specific volunteer.
UC-56	Edit volunteer information	Manager, Secretary	Enables editing of volunteer information to maintain accurate records.
UC-57	Edit volunteer in course	Manager, Secretary	Allows editing of volunteer assignments within a specific course.

UC-58	Automatically assign volunteers to team	Manager, Secretary	Allows assigning approved volunteers to teams where their skills are needed automatically.
UC-59	Manually assign volunteers to team	Manager, Secretary	Allows assigning approved volunteers to teams manually.
UC-60	Automatically assign forms to secretaries	Manager, Secretary	Enables the system to automatically assign application forms to secretaries based on predefined criteria.
UC-61	Generate volunteer cards	Manager, Secretary	Allows creation of identification cards for volunteers.
UC-62	Generate volunteer certificates	Manager, Secretary	Enables the creation of certificates recognizing volunteer contributions and achievements.
UC-63	Export volunteer list	Manager, Secretary	Allows exporting the volunteer list for reporting or communication purposes.
UC-64	Register for freetime	Staff	Allows staff members to register for available free time slots.
UC-65	View night shift freetime	Manager, Secretary	Allows viewing of available free time slots for night shifts.
UC-66	View night shift list	Manager, Secretary, Staff, Team Leader, Supervisor	Enables viewing of scheduled night shifts.
UC-67	Auto assign night shift	Manager, Secretary	Allow manager or secretary automatically assign night shift to staff
UC-68	Manually assign a shift	Manager, Secretary	Allow manager or secretary assign night shift to staff
UC-69	Reject the shift	Staff	Enables staff members to decline an assigned shift due to conflicts or other reasons.

UC-70	View rejected shifts list	Manager, Secretary	Allows viewing shifts that have been declined by staff or volunteers, requiring reassignment.
UC-71	Accept a shift rejection	Manager, Secretary	Enables acknowledgment and processing of shift rejections, updating schedules accordingly.
UC-72	View night shift setup	Manager	Allows the manager to view and configure the setup for night shifts.
UC-73	Edit shift registration date	Manager	Allows managers to change staff shift registration time.
UC-74	View schedule	Staff	Allows staff to view their shifts.
UC-75	Delete a staff from shift	Manager, Secretary	Allows the manager or secretary to remove staff from the current shift.
UC-76	Add room	Manager	Enables the manager to add new rooms for accommodating shifts or activities.
UC-77	Update room	Manager	Allows the manager to update room details such as capacity, facilities, or availability.
UC-78	Delete room	Manager	Enables the manager to remove rooms from the system when they are no longer needed.
UC-79	Add night shift time	Manager	Allows the manager to define new time slots for night shifts.
UC-80	Edit night shift time	Manager	Enables the manager to modify existing night shift time slots.

UC-81	Delete night shift time	Manager	Allows the manager to remove night shift time slots that are no longer required.
UC-82	View post list	Manager	Allows viewing a list of posts such as news, updates, or announcements within the system.
UC-83	View post details	Manager	Enables viewing detailed content of a specific post.
UC-84	Add post	Manager	Allows the manager to create new posts for communication or informational purposes.
UC-85	Edit post	Manager	Enables the manager to modify existing posts.
UC-86	Delete post	Manager	Allows the manager to remove posts that are outdated or no longer relevant.
UC-87	View post list on homepage	System Admin, Manager, Secretary, Staff, Team Leader, Supervisor, Guest	Allows viewing a list of posts displayed on the homepage for users to access easily.
UC-88	View post details on homepage	System Admin, Manager, Secretary, Staff, Team Leader, Supervisor, Guest	Enables viewing detailed content of specific posts directly from the homepage.
UC-89	View report list	Manager, Secretary, Staff, Team Leader, Supervisor	Enables viewing a list of daily reports submitted by supervisors or staff.
UC-90	Submit report	Supervisor, Staff	Allows supervisors to submit daily reports for their teams or shifts.
UC-91	View report details	System Admin, Manager, Secretary, Staff, Team Leader, Supervisor	Enables viewing detailed information about specific daily reports.

UC-92	Request opening report	Staff, Supervisor	Allows users to request the opening or access to daily reports.
UC-93	Reopen report	Manager	Enables reopening of daily reports for further editing or review after they have been closed.
UC-94	Mark as read	Manager	Allow users to mark reports as read
UC-95	Submit feedback	Super Admin, Manager, Secretary, Staff, Team Leader, Supervisor, Guest	Enables users to provide feedback about the cultivation course.
UC-96	View feedback list	Manager	Allows the manager to view all feedback submissions for review and action.
UC-97	View feedback details	Manager	Enables the manager to view detailed information about specific feedback submissions.
UC-98	Delete feedback	Manager	Allows the manager to remove feedback entries from the system if necessary.

Table 2: Usecase description

3. Functional Requirements

3.1 System Functional Overview

3.1.1 Screens Flow

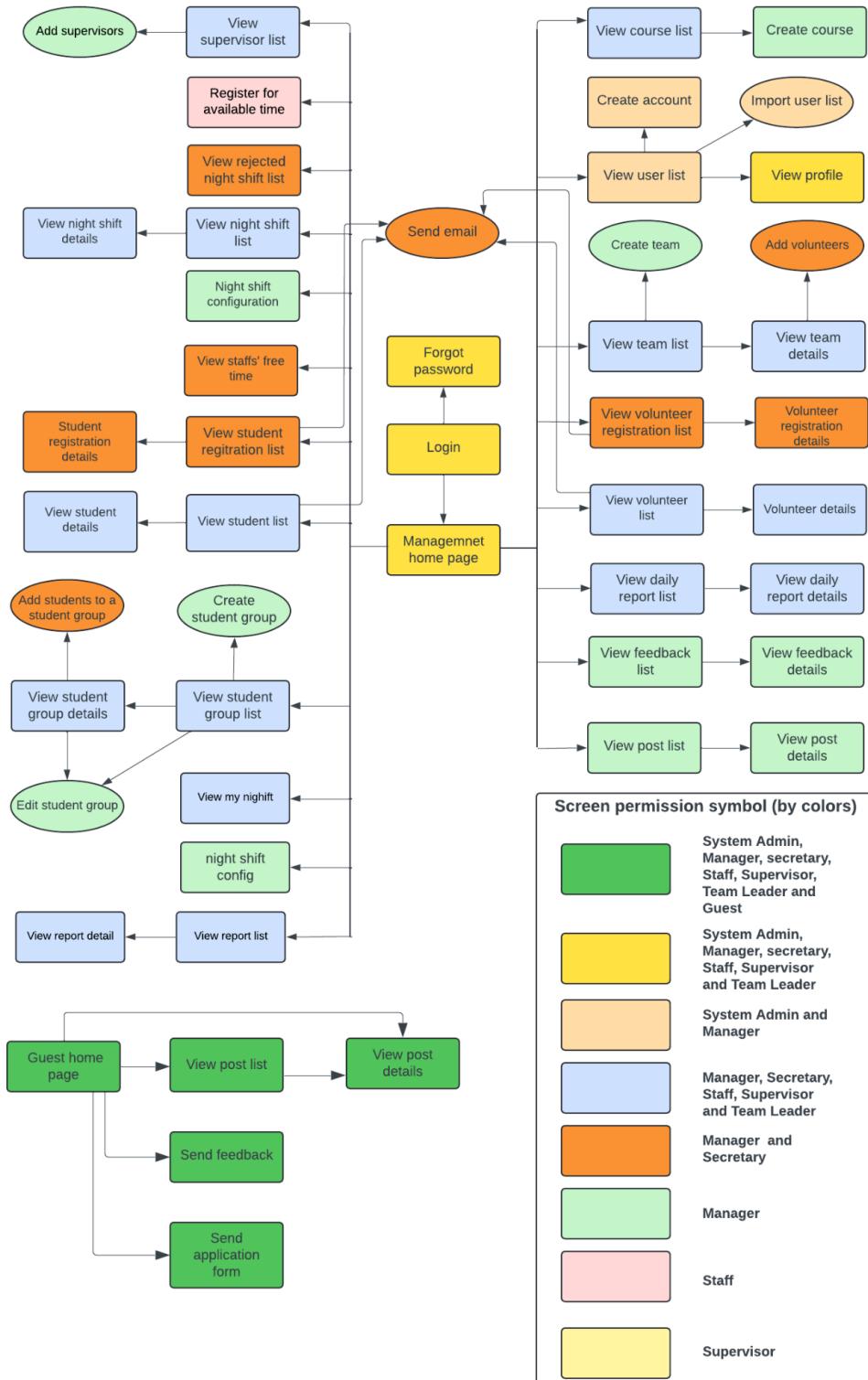


Figure 15: Screens Flow of the system

The link of screens flow: [Screens Flow](#)

3.1.2 Screen Descriptions

#	Feature	Screen	Description
1	Course Management	View course list	This screen allows viewing, searching, filtering, and sorting a list of all available courses.
2	Course Management	Create Course	This screen allows creating a new course by filling in a form with suitable data.
3	Account Management	View user list	This screen allows viewing, searching, filtering, and sorting a list of all registered users.
4	Account Management	Create account	This screen allows creating new user accounts by entering the necessary information.
5	Account Management	Import user list	This screen allows importing a list of users for bulk account creation.
6	Account Management	View profile	This screen allows viewing user profile information.
7	Account Management	Forgot password	This screen allows recovering the password by providing account details.
8	Account Management	Login	This screen allows logging into the system using credentials.
9	Team Management	View team list	This screen allows viewing, searching, filtering, and sorting a list of teams in the system.
10	Team Management	Create team	This screen allows creating a new team.
11	Team Management	View team details	This screen allows viewing detailed information about a specific team.
12	Team Management	Edit team	This screen allows editing the details of an existing team.
13	Team Management	Add volunteers to a team	This screen allows adding volunteers to a specific team.

14	Volunteer Management	View volunteer registration list	This screen allows viewing, searching, filtering, and sorting a list of volunteer registrations.
15	Volunteer Management	Volunteer registration details	This screen allows viewing detailed information about a specific volunteer registration.
16	Volunteer Management	View volunteer list	This screen allows viewing, searching, filtering, and sorting a list of volunteers.
18	Volunteer Management	Volunteer details	This screen allows viewing detailed information about a volunteer.
20	Report Management	View report list	This screen allows viewing, searching, filtering, and sorting a list of daily reports submitted for the cultivation course.
21	Report Management	View report details	This screen allows viewing detailed information about a specific daily report.
22	Supervisor Management	View supervisor list	This screen allows viewing, searching, filtering, and sorting a list of all supervisors in the system.
23	Supervisor Management	Add supervisors to a course	This screen allows adding supervisors to a specific course.
24	Night Shift Management	View night shift list	This screen allows viewing, searching, filtering, and sorting the list of night shifts assigned to volunteers or supervisors.
25	Night Shift Management	Register for available time	This screen allows registering for available night shift slots.
26	Night Shift Management	View night shift details	This screen allows viewing detailed information about a specific night shift.
27	Night Shift Management	View staffs' freetime	This screen allows viewing the registered free time of staffs
28	Night Shift Management	View list of night shift rejection	This screen allows viewing a list of rejected night shift assignments.
29	Night Shift Management	View my night shift assignment	This screen allows staff view list all their night shift assignment

30	Night Shift Management	Night Shift Config	This screens allow manager setup room, night shift for specific course
31	Student Management	View student registration list	This screen allows viewing, searching, filtering, and sorting a list of all student registrations.
32	Student Management	Student registration details	This screen allows viewing detailed information about a specific student registration.
33	Student Management	View student details	This screen allows viewing detailed information about a student.
34	Student Management	View student list	This screen allows viewing, searching, filtering, and sorting a list of all students.
35	Student Management	View student result	This screen allows guest viewing, searching feedback of students in course.
36	Student Group Management	View student group list	This screen allows viewing, searching, filtering, and sorting a list of student groups in the system.
37	Student Group Management	Create student group	This screen allows creating a new student group.
38	Student Group Management	View student group details	This screen allows viewing detailed information about a specific student group.
39	Student Group Management	Add students to a student group	This screen allows adding students to a specific group.
40	Student Group Management	Edit student group	This screen allows editing the details of a specific student group.
41	Feedback Management	View feedback list	This screen allows viewing, searching, filtering, and sorting a list of feedback received from participants.
42	Feedback Management	View feedback details	This screen allows viewing detailed feedback from participants.
43	Feedback Management	Send feedback	This screen allows participants to submit feedback.

44	Post Management	View post list	This screen allows viewing, searching, filtering, and sorting a list of posts published on the system page.
45	Post Management	View post details	This screen allows viewing detailed information about a specific post.
46	Post Management	Guest home page	This screen allows viewing the home page of the system.
47	Post Management	View post list (Guest's page)	This screen allows viewing, searching, and filtering posts published on the system.
48	Post Management	View post details (Guest's page)	This screen allows viewing detailed information about a specific post.

Table 3: Screen description

3.1.3 Screen Authorization

Screen	Super Admin	Manager	Secretary	Team Leader	Staff	Supervisor	Guest
View course list		x	x	x	x	x	
Create Course		x					
View user list	x	x					
Create account	x	x					
Import user list	x	x					
View profile		x	x	x	x	x	
Forgot password	x	x	x	x	x	x	
Login	x	x	x	x	x	x	
View team list		x	x	x	x	x	
Create team		x					
View team details		x	x	x	x	x	
Edit team		x					

Add volunteers to a team		X	X				
View volunteer registration list		X	X				
Volunteer registration details		X	X				
View volunteer list		X	X	X	X	X	
Volunteer details		X	X	X	X	X	
View daily report list		X	X	X	X	X	
View daily report details		X	X	X	X	X	
View supervisor list							
Add supervisors to a course		X					
View night shift list		X	X	X	X	X	
Register for available time					X		
View night shift details		X	X	X	X	X	
View staffs' free time		X					
View list of night shift rejection		X	X				
Night shift setup		X					

View student registration list		x	x				
Student registration details		x	x				
Edit student		x	x				
View student details		x	x	x	x	x	
View student group list		x	x	x	x	x	
Create student group		x					
View student group details		x	x	x	x	x	
Add students to a student group		x	x				
Edit student group		x					
View feedback list		x					
View feedback details		x					
Send feedback	x	x	x	x	x	x	x
Send email		x	x				
View post list		x					
Send email		x	x				
Edit post		x					
View post details		x					
Guest home page	x	x	x	x	x	x	x

View post list (Guest's page)	x	x	x	x	x	x	x
View post details (Guest's page)	x	x	x	x	x	x	x
Send application	x	x	x	x	x	x	x

Table 4: Screen Authorization

3.1.4 Non-Screen Functions

#	Feature	System Function	Description
1	Report Management	Close daily report	Every 0h every day, the system will review which reports have not been submitted and change the status of that report to late.
2	Report Management	Create daily report	Every 0h every day, the system will generate reports for that day for each department and shift with the report content being the list of students in the corresponding departments and rooms.
3	Account Management	Authorization	Controls user access and actions within the system based on their roles or groups. This function ensures that each user can only perform actions they are permitted to, enhancing security and system management efficiency.
4	Account Management	Send account email	Send emails to users to inform about account information (include username and password)
5	Account Management	Send OTP email	The system sends OTP code through email. User input that OTP in forgot password screen.
6	Account Management	Remove OTP	Every 5 minutes the system will run to see which OTP code has expired and will delete that OTP code.

Table 5: Non-screen functions

3.1.5 Entity Relationship Diagram

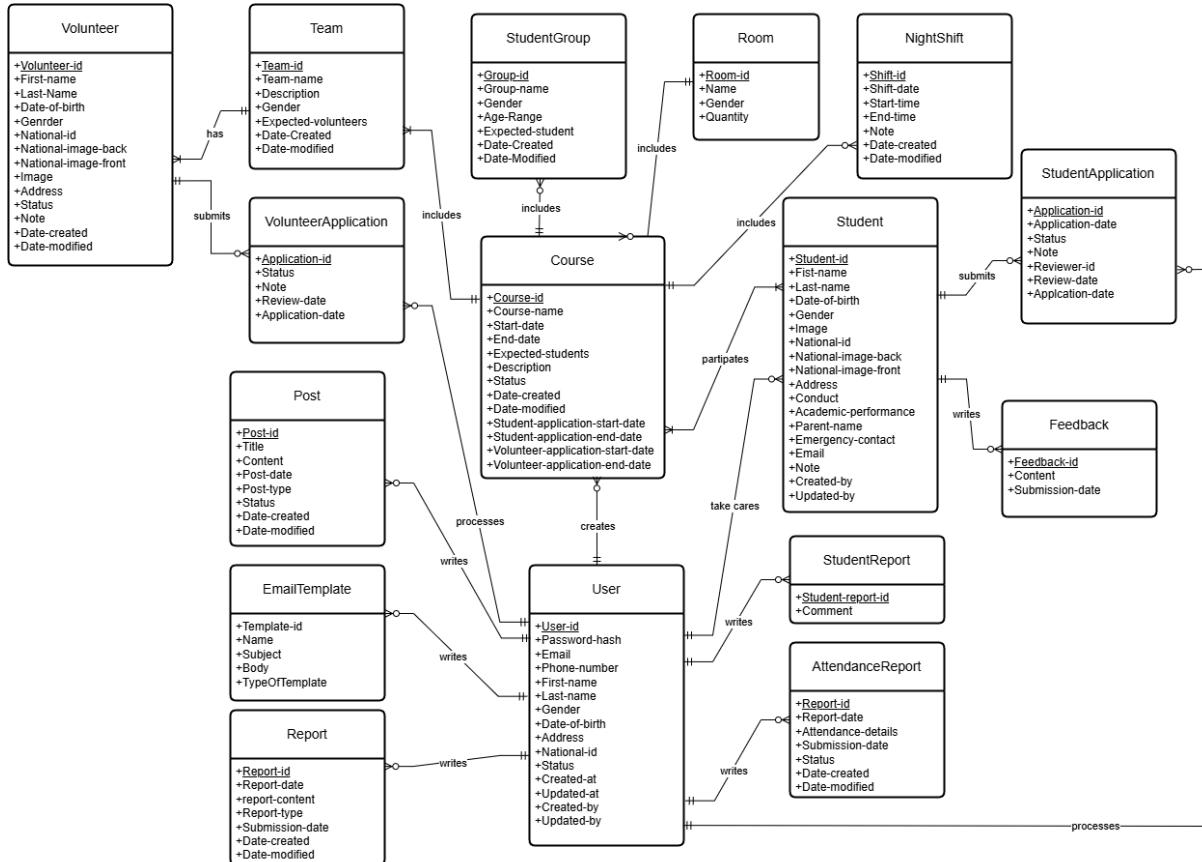


Figure 16: Entity Relationship diagram

Link of the entity relationship diagram: [Entity relationship diagram](#)

Entities Description

#	Entity	Description
1	User	The users of the system include admin, manager, secretary, staff, supervisor and volunteer.
2	Student	The students attended the cultivation course.
3	Volunteer	The volunteer attended the course.
4	Course	The cultivation course is a pagoda program organized by the pagoda, students participate voluntarily.
5	StudentApplication	The application form that parents submit when they want their children to join the cultivation course
6	Volunteer Application	Application form when someone wants to apply to volunteer

7	Team	A group of volunteers, taking on a certain task during the cultivation course(cooking, cleaning, ...), managed by a staff
8	StudentGroup	In a cultivation course, students will be divided into groups and managed by many staff members
9	NightShift	Every night there will be night shifts to watch the children sleep. The night shift is the temple staff.
10	Report	Report made daily by the supervisor
11	DailyReport	The report is done before the students go to bed and is done by the supervisor
12	StudentReport	Report on student status every day and done by the supervisor
13	Post	Posts are for promotion as well as providing information about cultivation courses and are done by the manager.
14	Feedback	Feedback about the cultivation courses of the pagoda.
14	EmailTemplate	An Email Template is a pre-defined structure or layout for an email that includes standard content and placeholders for dynamic data. These templates can be customised by secretaries and managers.

Table 6: Entity Description

3.2 Account Management

3.2.1 Login

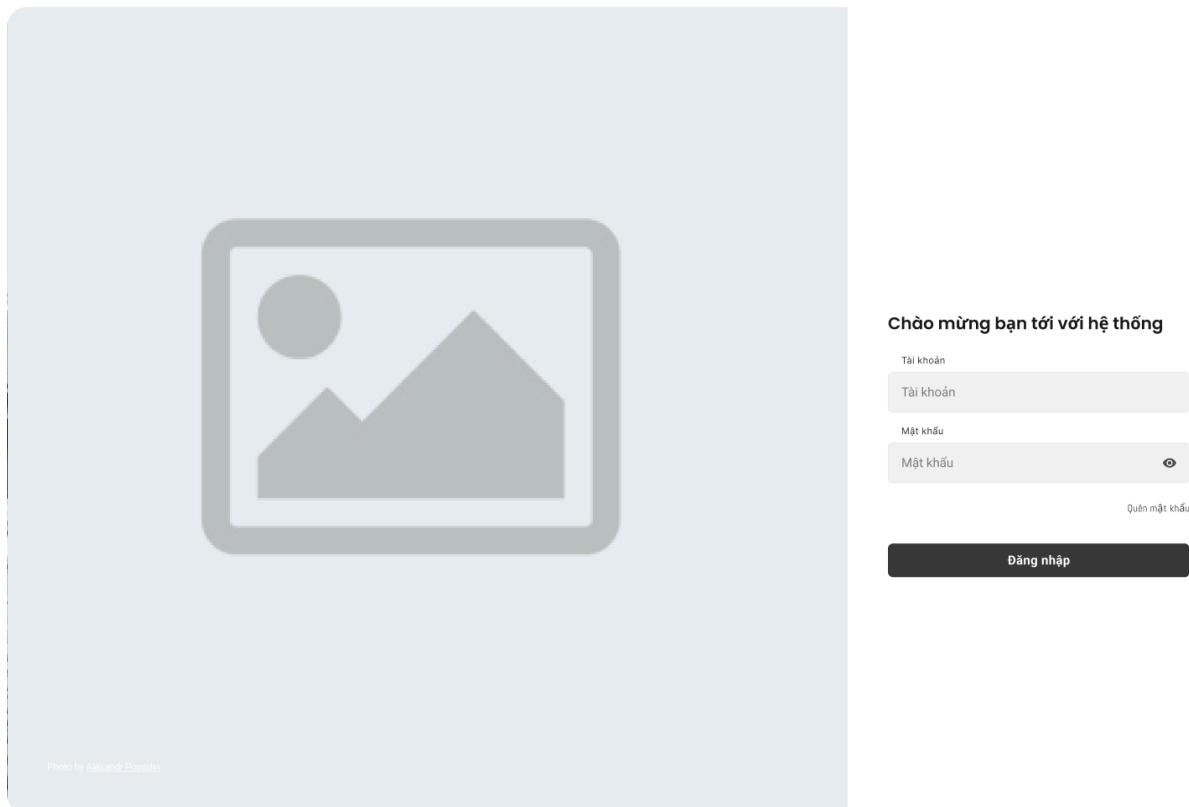


Figure 17. Login screen

UC ID and Name:	UC-01_Login		
Created By:	ManhDD	Date Created:	September 25, 2024
Primary Actor:	System Admin, Manager, Staff, Team Leader, Supervisor, Secretary	Secondary Actors:	N/A
Description:	The user enters login credentials to access the system. The system verifies the credentials and grants access to the appropriate system features based on the user's role.		
Trigger:	User clicks the “Đăng nhập” button on the login page		
Preconditions:	PRE-1. The user has a valid and authorised account.		

Postconditions:	POST-1. The user is successfully authenticated and logged into the system.
Normal Flow:	<p>1.0 User Login Process</p> <ol style="list-style-type: none"> 1. The user navigates to the Login page. 2. The user enters their username and password. 3. The system verifies the entered credentials against the database. 4. The system checks the user's role and permissions. 5. Upon successful verification, the system redirects the user to the dashboard corresponding to their role.
Alternative Flows:	N/A
Exceptions:	<p>1.0.E1 System Unavailable</p> <ol style="list-style-type: none"> 1. If the username or password is incorrect, the system displays an error message: "Tên người dùng hoặc mật khẩu không đúng." 2. The user is prompted to re-enter the correct credentials or use the "Quên mật khẩu?" feature.
Priority:	High
Frequency of Use:	High
Business Rules:	BR-12, BR-13, BR-14
Other Information:	The system must securely transmit credentials using SSL/TLS.
Assumptions:	The system redirects to the dashboard of the most recent course

Table 7. Login function description

3.2.2 Logout

The screenshot shows a user profile page for 'Xuân Hậu'. The profile details include: Họ tên (Name): Nguyễn Xuân Hậu; Ngày sinh (Date of Birth): 13/11/2003; Số điện thoại (Phone Number): 0969 583 865; S6 CMI: 0352. Below these are fields for Email (nguyễnxuanhau@gmail.com), Giới tính (Gender: Active), Trạng thái (Status: Active), Địa chỉ (Address: thôn Môi, Thanh Tâm, Thanh Liêm, Hà Nam); Người tạo (Created By: Nguyễn Xuân Hậu), Ngày tạo (Created Date: 13/11/2003), Người chỉnh sửa (Last Edited By: Nguyễn Xuân Hậu), Ngày chỉnh sửa (Last Edited Date: 13/11/2003). On the right, there is a search bar with 'Xuân Hậu', a user icon with 'Tài khoản', a lock icon with 'Đổi mật khẩu' (Change Password), and a logout button with 'Đăng xuất' (Logout). A sidebar on the left lists various menu items under 'DANH MỤC' (Category) and 'KHÁC' (Others). The bottom right corner of the page says 'Made by G51 Team'.

Figure 18. Logout screen

UC ID and Name:	UC-02_Logout		
Created By:	ManhDD	Date Created:	September 25, 2024
Primary Actor:	System Admin, Manager, Staff, Team Leader, Supervisor, Secretary	Secondary Actors:	N/A
Description:	The user chooses to log out of the system, so that the session is no longer on the system. The system terminates the session and logs the user out.		
Trigger:	The user clicks the "Đăng xuất" button on the header bar.		
Preconditions:	PRE-1: User must login to the system.		
Postconditions:	POST-1. The user is logged out and redirected to the login page.		

Normal Flow:	<ol style="list-style-type: none"> 1. The user hovers over the name of the user in the top right of the screen 2. A small menu is displayed under the name 3. The user clicks on “Đăng xuất” 4. The user is logout from the system
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	Low
Frequency of Use:	Low
Business Rules:	BR-15
Other Information:	The system must logout in 1 second.
Assumptions:	Redirect to login screen

Table 8. Logout function description

3.2.3 View profile

Figure 19. View profile screen

UC ID and Name:	UC-03_View Profile		
Created By:	ManhDD	Date Created:	September 25, 2024
Primary Actor:	System Admin, Manager, Staff, Team Leader, Supervisor, Secretary	Secondary Actors:	N/A
Description:	The actor wants to view their personal profile information in the system or other other users in the system to get detailed information from them		
Trigger:	The user wants to view the profile		
Preconditions:	PRE-1: User must login to the system. PRE-2: The user account has been authorized to perform the function.		

Postconditions:	POST-1. The user's profile information is displayed.
Normal Flow:	<p>3.0 View Profile by clicking in the name</p> <ol style="list-style-type: none"> 1. The user clicks the name of the user in the top right of the screen (see 3.1) 2. The system retrieves the user's profile information from the database. 3. The system displays the user's profile information, including name, email, role, and other relevant details.
Alternative Flows:	<p>3.1 View Profile by clicking in the “Tài khoản”</p> <ol style="list-style-type: none"> 1. The user hovers over the name of the user in the top right of the screen 2. A small menu is displayed under the name 3. The user clicks on “Tài khoản”
Exceptions:	N/A
Priority:	Medium
Frequency of Use:	Low
Business Rules:	N/A
Other Information:	The time to load the profile is less than 3 seconds.
Assumptions:	All the actors can have the right to view their own profile. The admin can view profile of managers and manager can view profile of staff, team leader, supervisor, secretary

Table 9. View Profile function description

3.2.4 Edit Profile

DANH MỤC

- Trang chủ
- Ban
- Chính
- Khóa sinh
- Đơn đăng kí**
- Khóa sinh
- Tỉnh nguyên viên
- Huynh trưởng
- Trực đêm
- Chi tiết khóa tu

KHÁC

- Danh sách khóa tu
- Danh sách người dùng
- Khóa sinh tổng
- Tỉnh nguyên viên tổng
- Báo cáo
- Homepage

Made by G51 Team

Figure 20. Edit profile screen

UC ID and Name:	UC-04_Edit Profile		
Created By:	ManhDD	Date Created:	September 25, 2024
Primary Actor:	System Admin, Manager, Staff, Team Leader, Supervisor, Secretary	Secondary Actors:	N/A
Description:	The user can edit the profile information in the system so that the information is up to date. The system admin can also edit the manager profile, while the manager can edit staff, team leader and supervisor profiles		
Trigger:	The user wants to edit the profile		
Preconditions:	PRE-1: Users must login to the system. PRE-2: The user account has been authorized to perform the function.		

Postconditions:	POST-1. The user's updated profile information is saved.
Normal Flow:	<p>4.0 Edit Profile Process</p> <ol style="list-style-type: none"> 1. The user selects the "Sūra" option from the profile. 2. The system displays the user's current profile information in editable fields. 3. The user makes changes to their profile information. 4. The user click on the “Luru” button (see 4.0.E1) 5. The system updates the profile information in the database. 6. The system confirms the changes and displays a success message. 7. The system redirect to the view profile screen
Alternative Flows:	N/A
Exceptions:	<p>4.0.E1 Invalid Information</p> <ol style="list-style-type: none"> 1. If the user submits invalid information, the system displays an error under the input 2. The user is reinput the information and submit again
Priority:	Medium
Frequency of Use:	Low
Business Rules:	BR-09, BR-10, BR-11, BR-17
Other Information:	The system must respond and display edit page within 2 seconds.
Assumptions:	After the user saves the information must be updated into the database and display a success message within a second, then back to the view profile screen.

Table 10. Edit Profile function description

3.2.5 View user list

The screenshot shows the 'Danh sách người dùng' (User List) screen. At the top, there is a search bar with placeholder text 'Họ tên', 'Số điện thoại', 'Email', and dropdown menus for 'Trạng thái' (Active) and 'Giới tính' (Nam). Below the search bar is a table containing ten user records. Each record includes a checkbox, the user's name, phone number, email, gender, status, and action buttons. The table has headers: Họ và tên, Điện thoại, Email, Giới tính, Trạng thái, and Thao tác. The footer of the page includes a 'Made by G51 Team' link and social media icons for Facebook, Instagram, and Twitter.

	Họ và tên	Điện thoại	Email	Giới tính	Trạng thái	Thao tác
<input checked="" type="checkbox"/>	Nguyễn Xuân Hậu	0969 583 865	nguyenxuanhau2003@gmail.com	Nữ	Active	
<input checked="" type="checkbox"/>	Đậu Đinh Long	0969 583 865	seeddata@gmail.com	Nữ	Active	
<input type="checkbox"/>	Lê Hải Đăng	0969 583 865	example@gmailcom	Nữ	Active	
<input type="checkbox"/>	Lê Văn Nguyên	0969 583 865	example@gmailcom	Nam	Active	
<input type="checkbox"/>	Đậu Đinh Long	0969 583 865	example@gmailcom	Nam	Active	
<input type="checkbox"/>	Nguyễn Xuân Hậu	0934 567 890	example@gmailcom	Nam	Active	
<input type="checkbox"/>	Lê Hải Đăng	0912 345 678	example@gmailcom	Nữ	Active	
<input type="checkbox"/>	Đậu Đinh Long	0934 567 890	nguyenxuanhau2003@gmail.com	Nam	Active	
<input type="checkbox"/>	Lê Hải Đăng	0912 345 678	nguyenxuanhau2003@gmail.com	Nam	Active	
<input type="checkbox"/>	Đặng Hải An	0987 654 321	example@gmailcom	Nam	Active	

Figure 21. View user list screen

UC ID and Name:	UC-05_View Users List		
Created By:	ManhDD	Date Created:	September 25, 2024
Primary Actor:	System Admin, Manager	Secondary Actors:	Manager, Staff, Secretary
Description:	The actor views a list of users in the system, including basic information (username, email, phone number, role, and status) so that the actor can know the users existing in the system. The actor can also search and filter for the users that match some specific conditions.		

Trigger:	The System Admin, Manager wants to see the list of users
Preconditions:	PRE-1: User must login to the system. PRE-2: The user account has been authorized to perform the function.
Postconditions:	POST-1. The list of users is displayed.
Normal Flow:	<p>5.0 View user list without any search, filter or sort</p> <ol style="list-style-type: none"> 1. The System Admin or manager navigates to the Admin panel and selects "Danh sách người dùng." 2. The system retrieves and displays the list of users, including their basic information (username, email, phone number, role, and status) (see 5.1, 5.2)
Alternative Flows:	<p>5.1 View user list with search</p> <ol style="list-style-type: none"> 1. The System Admin or manager fills in all necessary information in the search form 2. The admin or manager clicks the “Tìm kiếm” button. 3. The system displays the user list that match what the System Admin or manager searched (see 5.1.E1) <p>5.2 View user list with filter</p> <ol style="list-style-type: none"> 1. The System Admin or manager click on the column header and select the value they want for that column 2. The system displays the user list that matches what the System Admin or manager filtered. <p>5.3 View user list with sort</p> <ol style="list-style-type: none"> 1. The System Admin or manager click on the column header and select the value they want for that column 3. The system displays the user list that matches what the admin or manager sorted.
Exceptions:	<p>5.1.E1 There is no matching result with search</p> <ol style="list-style-type: none"> 1. The system displays “Không có kết quả phù hợp”
Priority:	Medium

Frequency of Use:	Low
Business Rules:	BR-11
Other Information:	The time to load the list is less than 3 seconds.
Assumptions:	The list is sort descending by the created day of the user accounts. In the status column, the user that is active is presented in green color, the user that is deactivated is presented in red color, the user that doesn't have an account is presented in gray color.

Table 11. View Users List function description

3.2.6 Change password

The screenshot shows the 'Đổi mật khẩu' (Change Password) screen of the COLOANPAGODA application. On the left, there is a sidebar with a navigation menu. The 'Đơn đăng ký' section is currently selected. The main area displays the password change form with three input fields: 'Nhập mật khẩu cũ' (Old password), 'Nhập mật khẩu mới' (New password), and 'Nhập lại mật khẩu mới' (Confirm new password). Each field contains masked text. At the bottom right of the form is a 'Đổi mật khẩu' (Change password) button. The top right corner shows the user's name 'Thanh Thúy' and some icons. The bottom right corner of the page footer says 'Made by G51 Team' and includes social media icons for Facebook, Instagram, and Twitter.

Figure 22: Change password screens

UC ID and Name:	UC-06_Change Password		
Created By:	ManhDD	Date Created:	September 25, 2024
Primary Actor:	System Admin, Manager, Staff, Team Leader, Supervisor, Secretary	Secondary Actors:	N/A
Description:	The user changes their current password to a new one so that the user can have a new password.		
Trigger:	The user wants to change password		
Preconditions:	PRE-1. The user is logged into the system. PRE-2. The user knows their current password.		
Postconditions:	POST-1. The user's password is successfully updated.		
Normal Flow:	<p>6.0 Change Password Process</p> <ol style="list-style-type: none"> 1. The user navigates to the profile or settings page and selects the "Đổi mật khẩu" option. 2. The user enters their current password, the new password, and repeats the new password. 3. The user clicks “Lưu thay đổi” button. (see 6.E1, 6.E2, 6.E3, 6.E4) 4. The system updates the password and confirms the change. 		
Alternative Flows:	N/A		
Exceptions:	<p>6.E1 Invalid Current Password</p> <ol style="list-style-type: none"> 1. If the current password entered is incorrect, the system displays an error message: "Mật khẩu hiện tại không đúng." 2. The user is prompted to re-enter the correct current password. <p>6.E2 New Password Does Not Match</p>		

	<p>1. If the new password and the repeated new password do not match, the system displays an error message: "Mật khẩu mới không giống nhau."</p> <p>2. The user is prompted to re-enter the new password and repeat it.</p>
	<p>6.E3 New Password Does Not Meet Requirements</p> <p>1. If the new password does not meet the security requirements, the system displays an error message: "Mật khẩu phải có độ dài tối thiểu là 8 ký tự và tối đa là 32 ký tự, phải chứa ít nhất 1 chữ cái viết hoa, 1 chữ cái viết thường, 1 số và 1 ký tự đặc biệt."</p> <p>2. The user is prompted to enter a valid new password.</p>
	<p>6.E4 New Password Matches Old Password</p> <p>1. If the new password is the same as the old password, the system displays an error message: "Mật khẩu mới không được giống với mật khẩu cũ."</p> <p>2. The user is prompted to enter a different new password.</p>
Priority:	Low
Frequency of Use:	Low
Business Rules:	BR-12
Other Information:	The system changes the password within 1 second, with a toast indicating the change is successful
Assumptions:	The system verifies the current password, ensures the new password meets the security requirements, and checks if the new password is entered correctly twice. If valid, the password is updated.

Table 12. Change password function description

3.2.7 Forgot password

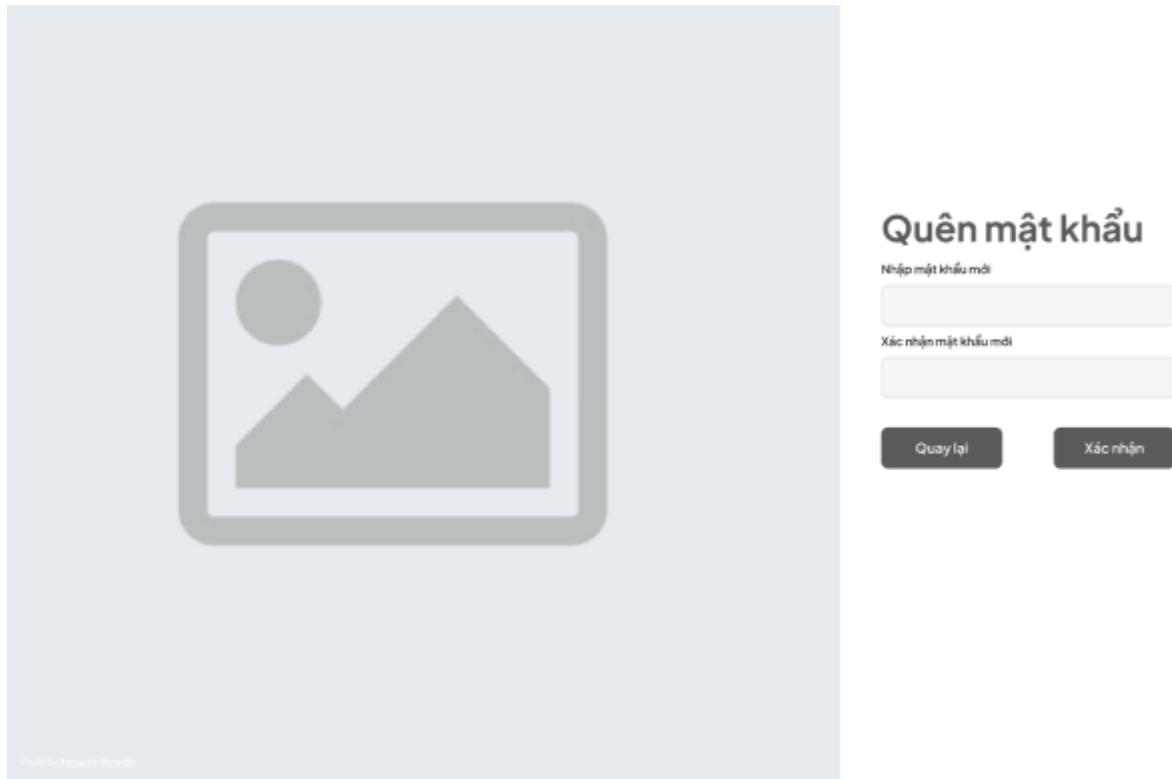


Figure 23: Reset password screens

UC ID and Name:	UC-07_Forgot Password		
Created By:	ManhDD	Date Created:	September 25, 2024
Primary Actor:	System Admin, Manager, Staff, Team Leader, Supervisor, Secretary	Secondary Actors:	N/A
Trigger	A user indicates they have forgotten their password and wishes to reset it.		
Description	This use case allows users to reset their password through a secure email verification process and set a new password.		
Preconditions:	PRE-1 The user's email must be registered in the system.		

	PRE-2 The email service must be functioning correctly.
Postconditions:	POST-1. The user's password is successfully updated.
Normal Flow:	<p>7.0 Forgot Password</p> <ol style="list-style-type: none"> 1. The user accesses the "Quên mật khẩu" page through "Quên mật khẩu" button under the password input. 2. The user enters their registered email address and clicks "Tiếp tục." (See 7.0.E1) 3. The system sends a verification code to the provided email. 4. The user enters the code received via email and clicks "Tiếp tục." 5. The system verifies the code and navigates the user to the "Reset Password" page.(See 7.0.E3) 6. The user enters a new password and confirms it. 7. The user clicks "Xác nhận," and the system updates the password.(See 7.0.E2, 7.0.E4) 8. The system notifies the user of the successful password reset.
Alternative Flows:	N/A
Exceptions:	<p>7.0.E1 The email provided is not registered.</p> <ol style="list-style-type: none"> 1. The system displays: "Email sai. Vui lòng thử lại." <p>7.0.E2 New Password Does Not Match</p> <ol style="list-style-type: none"> 1. If the new password and the repeated new password do not match, the system displays an error message: "Mật khẩu mới không giống nhau." 2. The user is prompted to re-enter the new password and repeat it. <p>7.0.E3 User enters an incorrect verification code.</p> <ol style="list-style-type: none"> 1. The system displays an error message: "Invalid verification code. Please try again." <p>7.0.E4 New Password Does Not Meet Requirements</p> <ol style="list-style-type: none"> 1. If the new password does not meet the security requirements, the system displays an error message: "Mật khẩu phải có độ dài tối thiểu là"

	<p>8 ký tự và tối đa là 32 ký tự, phải chứa ít nhất 1 chữ cái viết hoa, 1 chữ cái viết thường, 1 số và 1 ký tự đặc biệt."</p> <p>2. The user is prompted to enter a valid new password.</p>
Priority:	Low
Frequency of Use:	Low
Business Rules:	BR-12
Other Information:	The system reset the password within 1 seconds, with a toast indicating the change is successful
Assumptions:	The system verifies the current password, ensures the new password meets the security requirements, and checks if the new password is entered correctly twice. If valid, the password is updated.

Table 13. Reset password function description

3.2.8 Reset user password

The screenshot shows the COLOANPAGODA application interface. On the left is a sidebar with navigation links: Trang chủ, Danh sách khoa/tu, Ban, Chánh, Khóa sinh, Tỉnh nguyên viên, Huynh trưởng, Trực đêm, Điểm danh, Danh sách người dùng, Homepage, and Feedback. The main area is titled 'Danh sách người dùng'. It features search and filter fields for Họ tên, Số điện thoại, Email, Trạng thái (Active), and Giới tính (Nam). Below these are buttons for Tạo tài khoản and Nhập. The central part of the screen displays a modal window titled 'Thay đổi khẩu cho Hoàng Thị Quyên' (Change password for Hoang Thi Quyen). This modal has fields for 'Mật khẩu mới' (New password) and 'Xác nhận mật khẩu mới' (Confirm new password). At the bottom of the modal are 'Quay lại' (Back) and 'Xác nhận' (Confirm) buttons. The background lists user details in a table:

Họ và tên	Số điện thoại	Email	Trạng thái	Giới tính
Nguyễn Văn Hùng	0934 567 890	example@gmail.com	Active	Nam
Đặng Thị Minh	0912 345 678	example@gmail.com	Active	Nữ
Lê Hải Đăng	0934 567 890	nguyenxuanhau2003@gmail.com	Active	Nam
Lê Văn Sơn	0912 345 678	nguyenxuanhau2003@gmail.com	Deactive	Nam
Đặng Hải An	0987 654 321	example@gmail.com	Chưa có tài khoản	Nam
Đặng Hải An	0987 654 321	example@gmail.com	Chưa có tài khoản	Nam
Đặng Hải An	0987 654 321	example@gmail.com	Chưa có tài khoản	Nam

At the bottom of the page, there are navigation links for page 1, 2, ..., 9, 10, and a footer note 'Made by G51 Team'.

Figure 24. Reset password screen

UC ID and Name:	UC-08_ Reset Password		
Created By:	HauNX	Date Created:	September 25, 2024
Primary Actor:	Manager, Staff, Team Leader, Supervisor, Secretary	Secondary Actors:	N/A
Trigger	A user indicates they have forgotten their password and wishes to ask for admin or manager to reset password.		
Description	This use case allows users to reset passwords		

Preconditions:	PRE-1 The user's email must be registered in the system. PRE-2 The email service must be functioning correctly.
Postconditions:	POST-1. The user's password is successfully updated.
Normal Flow:	<p>8.0 Reset Password</p> <ol style="list-style-type: none"> 1. The System Admin or manager navigates to the Admin panel and selects "Danh sách người dùng." 2. The System Admin or manager clicks the lock icon and inputs new password (see 8.0.E1)
Alternative Flows:	N/A
Exceptions:	<p>8.0.E1 The email provided is not registered.</p> <ol style="list-style-type: none"> 1. The system displays: "Email sai. Vui lòng thử lại." <p>8.0.E2 New Password Does Not Match</p> <ol style="list-style-type: none"> 1. If the new password and the repeated new password do not match, the system displays an error message: "Mật khẩu mới không giống nhau." 2. The user is prompted to re-enter the new password and repeat it. <p>8.0.E3 User enters an incorrect verification code.</p> <ol style="list-style-type: none"> 1. The system displays an error message: "Invalid verification code. Please try again." <p>8.0.E4 New Password Does Not Meet Requirements</p> <ol style="list-style-type: none"> 1. If the new password does not meet the security requirements, the system displays an error message: "Mật khẩu phải có độ dài tối thiểu là 8 ký tự và tối đa là 32 ký tự, phải chứa ít nhất 1 chữ cái viết hoa, 1 chữ cái viết thường, 1 số và 1 ký tự đặc biệt." 2. The user is prompted to enter a valid new password.
Priority:	Low
Frequency of Use:	Low

Business Rules:	BR-12
Other Information:	The system reset the password within 1 seconds, with a toast indicating the change is successful
Assumptions:	The system verifies the current password, ensures the new password meets the security requirements, and checks if the new password is entered correctly twice. If valid, the password is updated.

Table 14. Reset password function description

3.2.9 Create a user

The screenshot displays the 'Tạo người dùng' (Create User) form. The form fields include:

- Họ tên (Name): Input field
- Ngày sinh (Date of Birth): Input field
- Số điện thoại (Phone Number): Input field
- Số CMND: Input field
- Email: Input field
- Giới tính (Gender): Drop-down menu with 'Chọn giới tính' (Select gender)
- Địa chỉ (Address): Input field

At the bottom right are two buttons: 'Quay lại' (Back) and 'Tạo tài khoản' (Create Account). On the far right, there is a user profile icon and the name 'Thanh Thúy'. The left sidebar has a 'Danh mục' (Category) section with links like Trang chủ, Ban, Chánh, Khoa sinh, and Đơn đăng ký. Below that is a 'Khác' (Others) section with links like Danh sách khóa tu, Danh sách người dùng, Khoa sinh tổng, Tinh nguyên viên tổng, Báo cáo, and Homepage.

Figure 25. Create user screen

UC ID and Name:	UC-09_Create User		
Created By:	ManhDD	Date Created:	September 25, 2024
Primary Actor:	System Admin, Manager	Secondary Actors:	Manager, Staff, Team Leader, Supervisor, Secretary

Description:	Admin or manager creates a new user with details such as email, role, phone number, first name, last name,... The system stores and sends the account information to the user via email.
Trigger:	System Admin or manager wants to create a new account
Preconditions:	PRE-1: User must login to the system. PRE-2: The user account has been authorized to perform the function.
Postconditions:	POST-1. The new user account is successfully created and stored in the system. POST-2. The user receives an email with account information.
Normal Flow:	<p>9.0 Create Account Process</p> <ol style="list-style-type: none"> 1. System Admin or manager navigates go to the user list and click on “Thêm mới” button 2. The system prompts System Admin or manager to enter the user's details. 3. System Admin enters the details and submits the form (see 9.0.E1, 9.0.E2) 4. The system checks if the email is valid and not already in use. 5. The system confirms the account creation and displays a success message.
Alternative Flows:	N/A
Exceptions:	<p>9.0.E1 Missing Required Information</p> <ol style="list-style-type: none"> 1. If System Admin omits required information, the system displays an error message: "Vui lòng nhập đầy đủ thông tin." 2. System Admin is prompted to complete the missing fields and resubmit. <p>9.0.E2 Email Already Exists</p>

	<p>1. If the email is already associated with an existing account, the system displays an error message: "Địa chỉ Email đã được sử dụng."</p> <p>2. System Admin is prompted to enter a different email address.</p>
Priority:	Low
Frequency of Use:	Medium
Business Rules:	BR-18, BR-19, BR-20
Other Information:	Passwords must be hashed before being saved in the database, and users must be notified via email to set their password. The system must respond and display the Create page within 2 seconds.
Assumptions:	After the user creates, the information must be inserted into the database and display a success message within a second, then back to the view profile screen.

Table 15. Create Account function description

3.2.10 Import user list

	Họ và tên ↓	Điện thoại ↓	Email ↓	Giới tính ↓	Trạng thái ↓	Thao tác
<input checked="" type="checkbox"/>	Nguyễn Xuân Hậu	0969 583 865	nguyenxuanhau2003@gmail.com	Nữ	Active	
<input checked="" type="checkbox"/>	Đậu Đình Long	0969 583 865	seeddata@gmail.com	Nữ	Deactive	
<input type="checkbox"/>	Lê Hải Đăng	0969 583 865	example@gmailcom	Nữ	Active	
<input type="checkbox"/>	Lê Văn Nguyên	0969 583 865	example@gmailcom	Nam	Chưa có tài khoản	
<input type="checkbox"/>	Đậu Đình Long	0969 583 865	example@gmailcom	Nam	Deactive	
<input type="checkbox"/>	Nguyễn Xuân Hậu	0934 567 890	example@gmailcom	Nam	Chưa có tài khoản	
<input type="checkbox"/>	Lê Hải Đăng	0912 345 678	example@gmailcom	Nữ	Deactive	
<input type="checkbox"/>	Đậu Đình Long	0934 567 890	nguyenxuanhau2003@gmail.com	Nam	Active	
<input type="checkbox"/>	Lê Hải Đăng	0912 345 678	nguyenxuanhau2003@gmail.com	Nam	Deactive	
<input type="checkbox"/>	Đặng Hải An	0987 654 321	example@gmailcom	Nam	Chưa có tài khoản	

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Figure 26. Import user list screen

UC ID and Name:	UC-10_Create User		
Created By:	HauNX	Date Created:	September 25, 2024
Primary Actor:	Manager	Secondary Actors:	Staff, Team Leader, Supervisor, Secretary
Description:	Admin or manager imports a list of users from an excel file.... The system stores and sends the account information to the user via email.		
Trigger:	Manager wants to create a new account		

Preconditions:	PRE-1: User must login to the system. PRE-2: The user account has been authorized to perform the function.
Postconditions:	POST-1. The accounts are successfully created and stored in the system. POST-2. The users receive an email with account information.
Normal Flow:	<p>10.0 Import user list process</p> <ol style="list-style-type: none"> 1. System Admin or manager navigates go to the user list and click on “Nhập” button 2. The system prompts the Manager to download the excel template. 3. The manager fills in the form and upload to the system ((see 10.0.E1) 4. The system confirms the account creation and displays a success message.
Alternative Flows:	N/A
Exceptions:	<p>10.0.E1 Missing Required or Wrong Information</p> <ol style="list-style-type: none"> 1. The system displays the wrong cell in the excel
Priority:	Low
Frequency of Use:	Medium
Business Rules:	BR-18, BR-19, BR-20
Other Information:	Passwords must be hashed before being saved in the database, and users must be notified via email to set their password. The system must respond and display the Create page within 2 seconds.
Assumptions:	After the user creates, the information must be inserted into the database and display a success message within a second, then back to the view profile screen.

Table 16. Reset password function description

3.2.11 Activate/Deactivate account

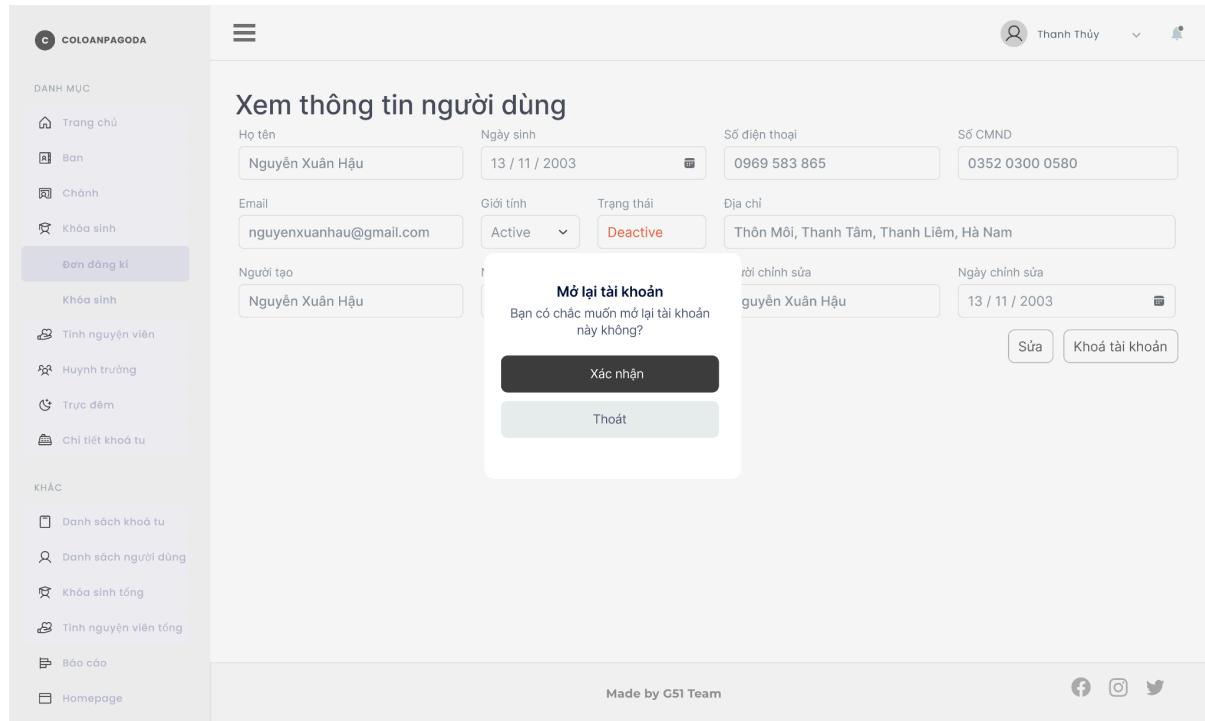


Figure 27. Active/Deactivate account screen

UC ID and Name:	UC-II_Active Account		
Created By:	ManhDD	Date Created:	September 25, 2024
Primary Actor:	System Admin, Manager	Secondary Actors:	Manager, Staff, Team Leader, Supervisor, Secretary
Description:	System Admin activates a user account so that the account can be reopened.		
Trigger:	The administrator wants to active an account		
Preconditions:	PRE-1: Users must login to the system. PRE-2: The user account has been authorized to perform the function.		
Postconditions:	POST-1. The user's account is successfully activated or deactivated.		

Normal Flow:	<p>11.0 Active account</p> <ol style="list-style-type: none"> 1. The System admin or manager view the details of the account 2. The System admin or manager clicks “Khoá tài khoản / mở tài khoản” button 3. The system displays a confirm dialog 4. The System admin or manager clicks “Xác nhận” 5. The user can now log in.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	High
Frequency of Use:	Low
Business Rules:	BR-21, BR-22
Other Information:	The system must respond and display the active popup within 2 seconds.
Assumptions:	After the user confirms, the status is change and the system displays a success message within a second, then back to the view profile screen.

Table 17. Activate/Deactivate Account function description

3.3 Course Management

3.3.1 View Course List

The screenshot shows the 'View course list' screen. The left sidebar contains a navigation menu with items like 'Trang chủ', 'Danh sách khóa tu', 'Ban', 'Chỉnh', 'Khóa sinh', 'Tính nguyên viên', 'Huynh trưởng', 'Trực đêm', 'Điểm danh', 'Danh sách người dùng', 'Homepage', and 'Feedback'. The main content area has a title 'Danh sách khóa tu'. It includes a search form with fields for 'Tên', 'Trạng thái' (status dropdown set to 'Đã khóa'), 'Ngày bắt đầu từ' (start date), 'Đến' (end date), and a date range selector. There are also buttons for 'Tim kiếm' (Search) and 'Xóa' (Delete). A large table lists courses with columns for name, start date, end date, status, and gender. The table has 7 data rows. At the bottom right, there is a pagination control with buttons for 1, 2, ..., 9, 10.

Figure 28. View course list screen

UC ID and Name:	UC-12_View Course List		
Created By:	NinhNT	Date Created:	25/Sep/2024
Primary Actor:	Manager, Staff, Team Leader, Supervisor, Secretary	Secondary Actors:	None
Trigger:	User wants to view list all course		
Description:	The actor views a list of courses in the system, including basic information so that the actor can know the courses existing in the system. The actor can also search and filter for the users that match some specific conditions.		

Preconditions:	PRE-1 User must login to the system. PRE-2 The user account has been authorized to perform the function.
Postconditions:	PRE-2 The system displays a list of all available courses.
Normal Flow	<p>12.0 View course list without any search, filter or sort</p> <ol style="list-style-type: none"> 1. The actor logs into the system and navigates to the course management section. 2. The system retrieves and displays a list of all existing courses
Alternative Flows:	<p>12.1 View course list with search</p> <ol style="list-style-type: none"> 1. The actor fills in all necessary information in the search form. 2. The actor clicks “Tìm kiếm” button. 3. The system displays the course list that match what the actor searched. <p>12.3 View course list with sort</p> <ol style="list-style-type: none"> 1. The actor clicks on the column header and select the value they want for that column. 2. The system displays the course list that matches what the actor sorted.
Exceptions:	<p>12.1.E1 There is no matching result with search</p> <ol style="list-style-type: none"> 1. The system displays “Không có kết quả phù hợp”
Priority:	Normal
Frequency of Use:	Normal
Business Rules:	BR-05
Other Information:	The time to load the screen is less than 3 seconds.
Assumptions:	The list is sort descending by the created day of the course

Table 18. View Course List

3.3.2 Create Course

The screenshot shows the 'Create course' screen of the COLOANPAGODA application. The main area is titled 'Tạo khóa tu'. On the left is a sidebar with various navigation links. The main form contains fields for course details: 'Tên khóa tu', 'Thời lượng', 'Số lượng học sinh dự kiến', 'Trạng thái', 'Ngày bắt đầu', 'Ngày kết thúc', 'Tuyển sinh từ', 'Tuyển sinh từ', 'TuyỂn tinh nguyện viên từ', 'đến', and 'Ghi chú'. At the bottom right are two buttons: 'Quay lại' and 'Tạo khóa tu'.

Figure 29. Create course screen

UC ID and Name:	UC-13_Create Course		
Created By:	NinhNT	Date Created:	25/Sep/2024
Primary Actor:	Manager	Secondary Actors:	None
Trigger:	Manager decides to create a new course in the system.		
Description:	This use case allows the Manager to create a new course with course's information.		
Preconditions:	PRE-1: User must login to the system. PRE-2: The user account has been authorized to perform the function.		
Postconditions:	POST-1. A new course is created and saved in the system.		

Normal Flow	<p>13.0 Create a new course</p> <ol style="list-style-type: none"> 1. The Manager clicks on the "Tạo khóa tu" option on the screen. 2. The system prompts the Manager to enter course details. 3. The Manager confirms the creation of the course. 4. The system creates the new course and saves it to the database.
Alternative Flows:	N/A
Exceptions:	<p>13.0.E1 The information is invalid</p> <p>If the entered information is invalid or incomplete, the system should display an alert message and prompt the student to retry.</p>
Priority:	High
Frequency of Use:	Normal
Business Rules:	BR-01, BR-02, BR-03, BR-05
Other Information:	The system must respond and display the Create page within 2 seconds.
Assumptions:	After the user creates, the information must be inserted into the database and display a success message within a second, then back to the view course details screen.

Table 19. Create course function description

3.3.3 View Course Details

The screenshot shows a web application interface for viewing course details. On the left is a sidebar with a logo and a navigation menu:

- DANH MỤC**
 - Trang chủ
 - Ban
 - Chánh
 - Khoa sinh
 - Tinh nguyên viên
 - Huynh trưởng
 - Trực đêm
 - Chi tiết khóa tu
- KHÁC**
 - Danh sách khóa tu
 - Danh sách người dùng
 - Khoa sinh tổng
 - Tinh nguyên viên tổng
 - Báo cáo
 - Homepage
 - Feedback

The main content area has three tabs:

- Chi tiết khóa tu**: Displays course registration details. Fields include:
 - Tên khóa tu: Khoa tu mùa hè 2024
 - Thư ký trưởng: HauNX
 - Số lượng học sinh dự kiến: 0969 583 865
 - Trạng thái: Active
 - Ngày bắt đầu: 13 / 11 / 2003
 - Ngày kết thúc: 13 / 11 / 2003
 - Tuyển sinh từ: 13 / 11 / 2003
 - Tuyển sinh từ: 13 / 11 / 2003
 - Tuyến sinh viên từ: 13 / 11 / 2003
 - đến: 13 / 11 / 2003
 - Ngày tạo: 13 / 11 / 2003
 - Tạo bởi: NinhNT
 - Ngày chính sửa: 13 / 11 / 2003
 - Người chỉnh sửa: Nguyễn Xuân Hậu
- Danh sách ban**: Displays a table of class members:

STT	Tên	Số lượng dự tính	Số lượng thực tế	Trưởng ban	Giới tính
1	Nấu bếp	20	15	NinhNT	Tất cả
2	Cơ động	15	12	ThuyDTT	Nam
3	Môi trường	17	10	ManhDD	Tất cả
4	Hướng dẫn	13	7	PhucND	Nữ
- Danh sách chánh**: Displays a table of staff members:

STT	Tên	Số lượng dự tính	Số lượng thực tế	Huynh trưởng	Giới tính
1	Tín	30	15	NinhNT	Nam
2	Nguyễn	30	12	ThuyDTT	Nam
3	Đạo	30	10	ManhDD	Nữ
4	Trí	30	7	PhucND	Nữ

At the bottom right are social sharing icons: Facebook, Instagram, and Twitter. The footer says "Made by G51 Team".

Figure 30. View Course Detail screen

UC ID and Name:	UC-14_View Course Detail		
Created By:	NinhNT	Date Created:	25/Sep/2024
Primary Actor:	Manager, Staff, Team Leader, Supervisor, Secretary	Secondary Actors:	None

Trigger:	User want to view course detail information
Description:	This use case allows users to view the full details of the course, so that the users can know the detailed information of the course
Preconditions:	<p>PRE-1 User must login to the system.</p> <p>PRE-2 The user account has been authorized to perform the function.</p> <p>PRE-3 The course exists in the system.</p>
Postconditions:	POST-1. The course details are displayed to the actor.
Normal Flow	<p>14.0 View Course Details</p> <ol style="list-style-type: none"> 1. The actor navigates to the course management section in the system. 2. The actor selects the "Chi tiết khóa tu" option for a specific course from the course list. 3. The system retrieves all information related to the selected course 4. The system displays the course details on the screen. 5. The actor reviews the course details.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	Normal
Frequency of Use:	Normal
Business Rules:	BR-05
Other Information:	The time to load the profile is less than 3 seconds.
Assumptions:	

Table 20. View course function description

3.3.4 Edit Course

Figure 31. Update course screen

UC ID and Name:	UC-15_Update Course		
Created By:	NinhNT	Date Created:	25/Sep/2024
Primary Actor:	Manager	Secondary Actors:	None
Trigger:	Manager want to update course detail information		
Description:	This use case allows user to update the information of a specific course so that the user can edit when the course information change		
Preconditions:	PRE-1: User must login to the system. PRE-2: The user account has been authorized to perform the function.		
Postconditions:	POST-1. The course details are updated in the system.		

Normal Flow	<p>15.0 Update course</p> <ol style="list-style-type: none"> 1. The Manager navigates to the course management section in the system. 2. The Manager selects the edit icon option for a specific course. 3. The system retrieves the current course details and displays them for editing. 4. The Manager modifies the desired course information 5. The Manager confirms the updates. (see 15.0.E1) 6. The system saves the updated course details to the database.
Alternative Flows:	<p>15.1. Update course after view course details</p> <ol style="list-style-type: none"> 1. The manager views course details 2. The manager clicks on the edit button 3. Return to the step 3 on the normal flow
Exceptions:	<p>15.0.E1 The information is invalid</p> <ol style="list-style-type: none"> 1. If the entered information is invalid or incomplete, the system should display an alert message and prompt the student to retry.
Priority:	Normal
Frequency of Use:	Normal
Business Rules:	BR-01, BR-02, BR-03, BR-04, BR-05
Other Information:	The system must respond and display the edit page within 2 seconds.
Assumptions:	After the user saves the information must be updated into the database and display a success message within a second, then back to the view course details screen.

Table 21. View course function description

3.3.5 Start a course

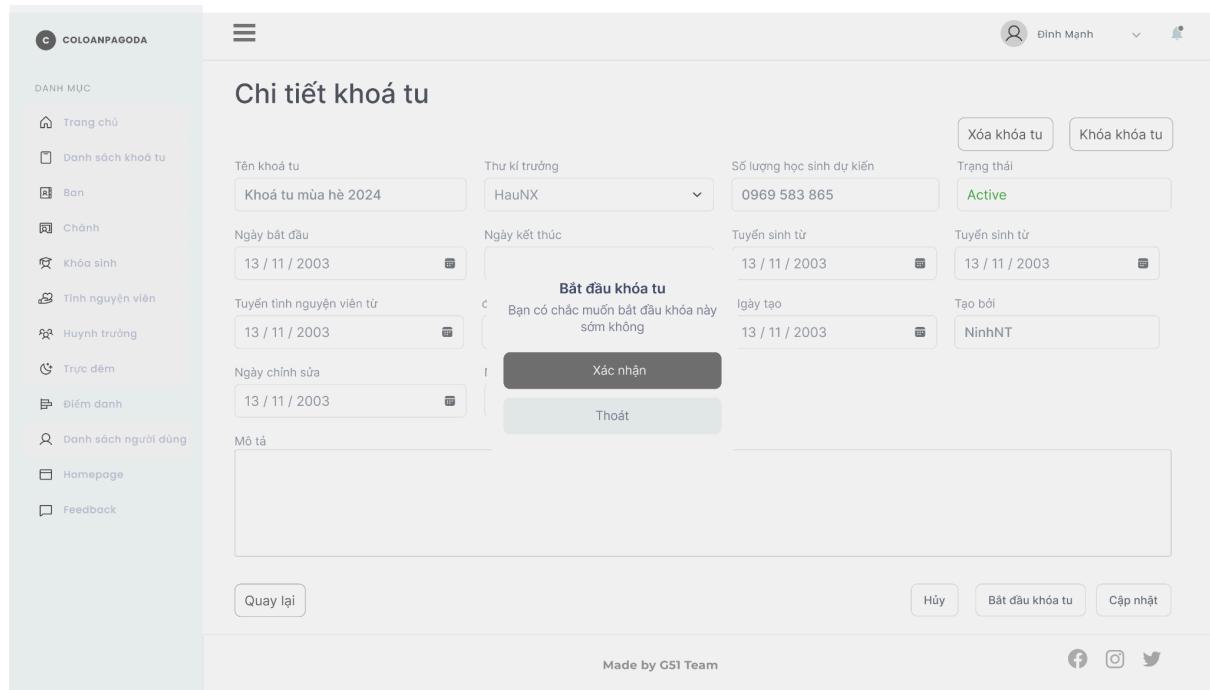


Figure 32. Start A Course screen

UC ID and Name:	UC-16_Start A Course		
Created By:	NinhNT	Date Created:	25/Sep/2024
Primary Actor:	Manager	Secondary Actors:	None
Trigger:	Manager want to start a course earlier		
Description:	This use case allows manager to remove course from the system so that the user can delete the course when necessary		
Preconditions:	PRE-1 User must login to the system. PRE-2 The user account has been authorized to perform the function. PRE-3 The course must exist in the system.		
Postconditions:	POST-1 The course is change status from “Đang chuyển sinh” to “Tuyển sinh”		

Normal Flow	<p>16.0 Start a course</p> <ol style="list-style-type: none"> 1. The Manager navigates to the course management section in the system. 2. The Manager choose a course to view details 3. The Manager click on “Sửa” button 3. The Manager clicks “Bắt đầu khóa tu” button to start the course
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	Normal
Frequency of Use:	Normal
Business Rules:	BR-05, BR-110
Other Information:	The system must respond and display delete popup within 2 seconds.
Assumptions:	After the user confirms, display a success message within a second

Table 22. View course function description

3.3.6 Lock Course

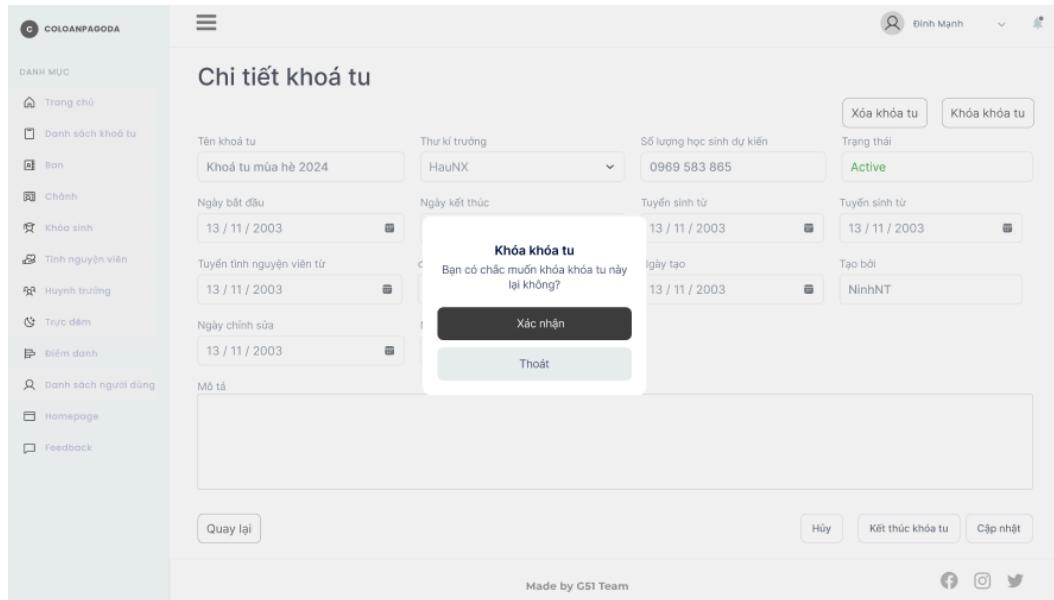


Figure 33. Lock course screen

UC ID and Name:	UC-17 _ Lock Course		
Created By:	NinhNT	Date Created:	25/Sep/2024
Primary Actor:	Manager	Secondary Actors:	None
Trigger:	Manager wants to lock course		
Description:	This use case allows managers to lock courses to prevent further registrations or changes.		
Preconditions:	PRE-1 User must login to the system. PRE-2 The user account has been authorized to perform the function. PRE-2 The course must exist in the system and is open		
Postconditions:	POST-1 The course is marked as locked in the system.		
Normal Flow	17.0 Lock a course		

	<ol style="list-style-type: none"> 1. The Manager navigates to the course management section in the system. (see 17.1) 2. The Manager selects the "Khóa khóa tu" option for a specific course. 3. The system prompts the Manager to confirm the locking action. 4. The Manager confirms the course locking. 5. The system updates the course status to lock.
Alternative Flows:	<p>17.1 Automatically lock a course</p> <ol style="list-style-type: none"> 1. When the end date of the course is reached, the course will automatically close.
Exceptions:	N/A
Priority:	Normal
Frequency of Use:	Low
Business Rules:	BR-05, BR-07
Other Information:	The system must respond and display the popup within 2 seconds.
Assumptions:	After the user confirms, the status is changed and the system displays a success message within a second, then back to the course details screen.

Table 23. View course function description

3.4 Student Management

3.4.1 Submit Student Application Form

The screenshot shows the COLOANPAGODA website's student registration form. The form fields include:

- Họ và tên: Nguyễn Xuân Hậu
- Giới tính: Nam
- Ngày sinh: 13/11/2003
- Số CMND: 0352 0300 0580
- Học lực: Giỏi
- Hạnh kiểm: Tốt
- Họ và tên cha / mẹ: Nguyễn Văn Xuyên
- Số điện thoại cha / mẹ: 0969 583 865
- Địa chỉ email: nguyenvanxuyen@gmail.com
- Địa chỉ: Cố Loa, Cố Loa, Ninh Bình
- Ảnh thẻ (4x6): Chọn tệp
- CCCD mặt trước: Chọn tệp
- CCCD mặt sau: Chọn tệp
- I'm not a robot:
- reCAPTCHA: Privacy - Terms
- Nộp đơn: Submit button

Figure 34. Submit Student Application Form

UC ID and Name:	UC-18_Submit Student Application Form		
Created By:	ThuyDTT	Date Created:	25/Sept/2024
Primary Actor:	Guest	Secondary Actors:	Secretary, Manager
Trigger:	The students want to submit their registration form for a course.		
Description:	This use case allows individuals to submit a registration form to students for the course. The form requires personal details, contact information,		

	and attachments, such as identification images, which are validated before submission.
Preconditions:	PRE-1 Users access the application form through the homepage of the system.
Postconditions:	POST-1: The registration form is successfully submitted and stored in the system.
Normal Flow	<p>18.0 Submit Student Registration Form</p> <ol style="list-style-type: none"> 1. The students access the homepage. 2. The students access the "Đăng ký khóa sinh" page via the "Đăng kí" on the navigation bar. 3. The system displays the registration form. 4. The students fill in personal information. 5. The students click the "Đăng kí" button.(See 18.1.E1)
Alternative Flows:	N/A
Exceptions:	<p>18.1.E1 The system detects invalid or missing data</p> <ol style="list-style-type: none"> 1. The system displays the message with each field that is invalid or missing data.
Priority:	High
Frequency of Use:	Medium
Business Rules:	BR-09, BR-11, BR-10
Other Information:	<ul style="list-style-type: none"> - The time to load the screen is less than 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - The students have all required information and documents ready for upload. - CAPTCHA verification is implemented to prevent spam submissions.

Table 24: Submit Student Application Form function description

3.4.2 View student registration list

Họ và tên ↓	Phụ huynh ↓	Điện thoại ↓	Ngày sinh ↓	Giới tính ↓	Trạng thái ↓	Chánh ↓	Người duyệt ↓	Thao tác
<input checked="" type="checkbox"/> Nguyễn Xuân Hậu	Đặng Đình Long	0969 583 865	13/11/2014	Nữ	Đã duyệt	Chưa phân	HauNX	
<input checked="" type="checkbox"/> Đặng Đình Long	Đặng Đình Long	0969 583 865	12/04/2010	Nữ	Đã duyệt	Chưa phân	NinhNT	
<input type="checkbox"/> Đặng Đình Long	Lê Hải Đăng	0969 583 865	13/11/2014	Nữ	Đang chờ	Chưa phân	PhucND	
<input type="checkbox"/> Lê Hải Đăng	Nguyễn Xuân Hậu	0969 583 865	14/07/2009	Nam	Từ chối	Chưa phân	NinhNT	
<input type="checkbox"/> Lê Văn Nguyên	Lê Văn Nguyên	0969 583 865	14/07/2009	Nam	Từ chối	Chưa phân	PhucND	
<input type="checkbox"/> Nguyễn Xuân Hậu	Lê Hải Đăng	0934 567 890	12/04/2010	Nam	Đang chờ	Chưa phân	PhucND	
<input type="checkbox"/> Lê Hải Đăng	Đặng Đình Long	0912 345 678	13/11/2014	Nữ	Đang chờ	Chưa phân	NinhNT	
<input type="checkbox"/> Đặng Đình Long	Lê Hải Đăng	0934 567 890	14/07/2009	Nam	Đã duyệt	Chưa phân	NinhNT	
<input type="checkbox"/> Lê Hải Đăng	Nguyễn Xuân Hậu	0912 345 678	14/07/2009	Nam	Đã duyệt	Chưa phân	HauNX	
<input type="checkbox"/> Đặng Hải An	Đặng Hải An	0987 654 321	12/04/2010	Nam	Từ chối	Chưa phân	HauNX	

Figure 35. View student registration list screen

UC ID and Name:	UC-19_View student the registration list		
Created By:	ThuyDTT	Date Created:	25/Sept/2024
Primary Actor:	Secretary, Manager	Secondary Actors:	N/A
Trigger:	A secretary or manager indicated that he wanted to see the student registration list.		

Description:	The actor views a list of student registrations in the system, including basic information so that the actor can know the student registrations existing in the system. The actor can also search and filter for the registrations that match some specific conditions.
Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function.
Postconditions:	POST-1: The list of registration will be displayed.
Normal Flow	<p>19.0 View course list without any search or sort</p> <ol style="list-style-type: none"> 1. Users access this page through the “Đơn đăng ký khóa sinh” button under “Đơn đăng ký” in the dashboard area on the left side of the page. 2. The page will display a list of registration.
Alternative Flows:	<p>19.1 View registration list with search</p> <ol style="list-style-type: none"> 1. The actor fills in all necessary information in the search form 2. The actor clicks “Tìm kiếm” button.(see 19.1.E1) 3. The system displays the user list that match what the actor searched <p>19.2 View registration list with sort</p> <ol style="list-style-type: none"> 1. The actor clicks on the column header and selects the value they want for that column. 3. The system displays the course list that matches what the actor sorted.
Exceptions:	<p>19.1.E1 There is no matching result with search</p> <ol style="list-style-type: none"> 1. The system displays “Không có kết quả phù hợp”.
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-21, BR-17, BR-22, BR-07, BR-04, BR-08, BR-13.
Other Information:	The time to load the screen is less than 3 seconds.

Assumptions: - The list is displayed in the order of student group

Table 25: View the list detail of registration function description

3.4.3 View student registration details

The screenshot displays a user interface for viewing student registration details. On the left, a sidebar menu lists various administrative functions such as 'Trang chủ', 'Danh sách khóa tu', 'Ban', 'Chánh', 'Khóa sinh', 'Đơn đăng kí' (highlighted in blue), 'Khóa sinh', 'Tỉnh nguyên viên', 'Huynh trưởng', 'Trực dân', 'Điểm danh', 'Danh sách người dùng', 'Homepage', and 'Feedback'. The main content area is titled 'Thông tin chi tiết đơn đăng ký'. It contains several input fields: 'Họ và tên' (Nguyễn), 'Giới tính' (Nam), 'Trạng thái' (Chưa duyệt); 'Số CMND' (0352 0300 0580), 'Học lực' (Giỏi), 'Hạnh kiểm' (Tốt), 'Họ và tên cha / mẹ' (Nguyễn Văn Xuyên); 'Số điện thoại' (0969 583 865), 'Địa chỉ email' (nguyenvanxuyen@gmail.com), 'Ngày sinh' (13/11/2003); 'Người duyệt' (NinhNT), 'Địa chỉ' (Cô Loan, Cố Loa, Ninh Bình). To the right is a placeholder for a student profile picture. Below the form are two placeholder images for 'Ảnh CCCD mặt trước' and 'Ảnh CCCD mặt sau'. At the bottom, there's a section for 'Ghi chú' (Note) with two buttons: 'Tù chối' and 'Duyệt đơn'. A table at the bottom lists course registrations:

Khoa	Ngày bắt đầu	Ngày kết thúc	Chánh	Người duyệt	Xem thông tin khoá
Khoa 1	09/07/2014	17/07/2014	Cần	HauNX	
Khoa 2	09/07/2014	17/07/2014	Trí	HauNX	
Khoa 3	09/07/2014	17/07/2014	Đạo	HauNX	

Made by G51 Team

Figure 36. View student registration detail screen

UC ID and Name:	UC-20_View student registration details		
Created By:	ThuyDTT	Date Created:	25/Sept/2024
Primary Actor:	Secretary, Manager	Secondary Actors:	N/A

Trigger:	A secretary or manager indicated that he wanted to see the student registration details.
Description:	To determine whether a student is qualified for a course, the secretary or manager can view the registration details information submitted by parents for their children.
Preconditions:	PRE-1 User must login to the system. PRE-2 The user account has been authorized to perform the function.
Postconditions:	POST-1. The detail of student registration will be displayed
Normal Flow	<p>20.0 View student registration details</p> <ol style="list-style-type: none"> 1. Users access this page through the “Đơn đăng ký” button under “Khóa sinh” in the dashboard area on the left side of the page. 2. Users click on the eye icon in the “Hành động” column of any registration in the list of registration. 3. The page will display the details of the registration.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	Medium
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-21, BR-08, BR-13, BR-17.
Other Information:	The time to load the screen is less than 3 seconds.
Assumptions:	- The system already has all student registration data, and this data is stored and retrieved accurately.

Table 26:View the list detail of registration function description

3.4.4 Accept/Reject registration

The screenshot shows a user interface for managing student registrations. On the left is a sidebar with navigation links like 'Trang chủ', 'Danh sách khóa tu', 'Bản', 'Chánh', 'Khóa sinh', 'Đơn đăng ký' (selected), 'Khóa sinh', 'Tỉnh nguyên viên', 'Huynh trưởng', 'Trực đêm', 'Điểm danh', 'Danh sách người dùng', 'Homepage', and 'Feedback'. The main area displays a registration detail form with fields for 'Họ và tên' (Nguyễn), 'Giới tính' (Nam), 'Trạng thái' (Chưa duyệt), 'Số CMND' (0352 0300 0580), 'Học lực' (Giỏi), 'Hạnh kiểm' (Tốt), 'Họ và tên cha / mẹ' (Nguyễn Văn Xuyên), 'Số điện thoại cha / mẹ' (0969 583 865), 'Địa chỉ email' (nguyenvanxuyen@gmail.com), 'Ngày sinh' (13/11/2003), 'Người duyệt' (NinhNT), 'Địa chỉ' (Cố Loan, Cố Loa, Ninh Bình), and two placeholder images for 'Ảnh CCCD mặt trước' and 'Ảnh CCCD mặt sau'. A modal window titled 'Cập nhật trạng thái đơn' is open, confirming 'Bạn đã duyệt đơn đăng kí thành công'. At the bottom, there's a table showing past registrations with columns for 'Khoa', 'Ngày bắt đầu', 'Ngày kết thúc', 'Chánh', 'Người duyệt', and 'Xem thông tin khóa'. The table includes rows for Khoa 1 (09/07/2014 - 17/07/2014, Căn, HauNX), Khoa 2 (09/07/2014 - 17/07/2014, Trí, HauNX), and Khoa 3 (09/07/2014 - 17/07/2014, Đạo, HauNX). The footer includes social media icons and a 'Made by GS1 Team' link.

Figure 37. Accept or reject student registration detail screen

UC ID and Name:	UC-21_Accept/Reject student registrations		
Created By:	HauNX		
Primary Actor:	Secretary, Manager	Secondary Actor	N/A
Trigger:	Secretary or Manager decides to accept or reject a registration		

Description:	This use case allows the Manager or Secretary to accept or reject student registration
Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function. PRE-3 The registration must exist in the system.
Postconditions:	POST-1 The student registration status is updated in the system
Normal Flow	<p>21.0 Accept/Reject student registrations</p> <ol style="list-style-type: none"> 1. The user navigates to the navigation bar and clicks on “Đơn đăng ký” 2. User clicks on “Đơn đăng ký khóa sinh” 3. The system displays the list of student registration applications. 4. Users click on the eye icon in the “Hành động” column of any registration in the list of registration. 5. The user clicks on “Duyệt đơn” or “Tù chối” to accept or reject a registration. 6. The system will once again confirm whether you want to approve the student's application or not. 7. If user click on “Xác nhận” The system updates the course status of the registration
Alternative Flows:	N/A
Exceptions:	<p>21.0.E. Fail to process the application</p> <ol style="list-style-type: none"> 1. The system displays “Duyệt đơn thất bại”.
Priority:	Normal
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-23, BR-22, BR-07, BR-08, BR-09.
Other Information:	The system must respond and display the popup within 2 seconds.

<p>Assumptions:</p>	<ul style="list-style-type: none"> - When the application is rejected, the “Tù chối” button is disabled. When the application is accepted, the “Duyệt đơn” button is disabled. - After the user confirms, the data is updated in the database and displays a success message within a second, then back to the view of student detail registration.
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Table 27: Accept/Reject registration function description

3.4.5 View student list

Mã học sinh	Họ và tên	Phụ huynh	Điện thoại	Ngày sinh	Giới tính	Trạng thái	Chánh	Thao tác
KS001	Nguyễn Xuân Hậu	Đậu Đình Long	0969 583 865	13/11/2014	Nữ	Trong khoá tu	✓Chánh Đạo	
KS001	Đậu Đình Long	Đậu Đình Long	0969 583 865	12/04/2010	Nữ	Bó học	✓Chánh Cần	
KS001	Đậu Đình Long	Lê Hải Đăng	0969 583 865	13/11/2014	Nữ	Đã tốt nghiệp	✓Chánh Đạo	
KS001	Lê Hải Đăng	Nguyễn Xuân Hậu	0969 583 865	14/07/2009	Nam	Đã tốt nghiệp	✓Chánh Cần	
KS001	Lê Văn Nguyên	Lê Văn Nguyên	0969 583 865	14/07/2009	Nam	Chưa nhập học	✓Chánh Trí	
KS001	Nguyễn Xuân Hậu	Lê Hải Đăng	0934 567 890	12/04/2010	Nam	Bó học	✓Chánh Đạo	
KS001	Lê Hải Đăng	Đậu Đình Long	0912 345 678	13/11/2014	Nữ	Bó học	✓Chánh Trí	
KS001	Đậu Đình Long	Lê Hải Đăng	0934 567 890	14/07/2009	Nam	Chưa nhập học	✓Chánh Tâm	
KS001	Lê Hải Đăng	Nguyễn Xuân Hậu	0912 345 678	14/07/2009	Nam	Trong khoá tu	✓Chánh Tâm	
KS001	Đặng Hải An	Đặng Hải An	0987 654 321	12/04/2010	Nam	Chưa nhập học	✓Chánh Trí	

Figure 38. View student list screen

UC ID and Name:	UC-22_View Student list	
Created By:	PhucND	Date Created: 25/Sept/2024

Primary Actor:	Secretary, Manager	Secondary Actor	N/A
Trigger:	A secretary, manager indicated that he wanted to see the student list.		
Description:	The actor views a list of students in the system, including basic information so that the actor can know the students existing in the system. The actor can also search and filter for the students that match some specific conditions.		
Preconditions:	PRE-1 User must login to the system. PRE-2 The user account has been authorized to perform the function.		
Postconditions:	POST-1: The student list is successfully displayed.		
Normal Flow	<p>22.0 View student list without any search, filter or sort</p> <ol style="list-style-type: none"> Users access the “Danh sách khóa sinh” page through the “Khóa sinh” button under “Khóa sinh” in the dashboard area on the left side of the page. The page will display a list of students. 		
Alternative Flows:	<p>22.0 View student list with search</p> <ol style="list-style-type: none"> The actor fills in all necessary information in the search form The actor clicks “Tìm kiếm” button. The system displays the student list that matches what the actor searched (see 22.1.E1). <p>22.1 View student list with sort</p> <ol style="list-style-type: none"> The actor clicks on the column header and selects the value they want for that column. The system displays the course list that matches what the actor sorted. 		
Exceptions:	<p>22.0.E1 There is no matching result with search</p> <ol style="list-style-type: none"> The system displays “Không có kết quả phù hợp” 		
Priority:	High		
Frequency of Use:	High		

Business Rules:	BR-05, BR-14, BR-21, BR-17, BR-07, BR-04, BR-08, BR-13.
Other Information:	The time to load the screen is less than 3 seconds.
Assumptions	The system has an up-to-date list of students for each course that is accessible by the actor.

Table 28: View the list in a course function description

3.4.6 View student details

The screenshot shows a web-based application for managing student records. On the left is a sidebar menu with links like 'Trang chủ', 'Danh sách khóa tu', 'San', 'Chánh', 'Khóa sinh', 'Tình nguyện viên', 'Huynh trưởng', 'Trực đêm', 'Biểu danh', 'Danh sách người dùng', 'Homepage', and 'Feedback'. The main content area has a header 'Thông tin khoá sinh' and a sub-header 'Thông tin chung'. It displays personal information: Họ và tên (Nguyễn), Giới tính (Nam), Ngày sinh (13/11/2003), Số CMND (0352 0300 0580), Họ và tên cha/mẹ (Nguyễn Văn Xuân), Số điện thoại cha/mẹ (0969 583 865), Địa chỉ email (nguyenvanxuyen@gmail.com), and Địa chỉ (Cố Loan, Cố Loa, Ninh Bình). Below this are two placeholder images for 'Ảnh CCCD mặt trước' and 'Ảnh CCCD mặt sau'. A large text area labeled 'Ghi chú' is present. At the bottom right is a 'Sửa' button. The second part of the screenshot shows a 'Thông tin chi tiết' section with fields for 'Khóa tu' (Khóa tu mùa hè 2025), 'Trạng thái' (Trong khóa tu), 'Chánh' (Tri), 'Người duyệt' (NinhNT), 'Thời gian sửa' (12/03/2014), and 'Người sửa' (NinhNT3). It also features a 'Ghi chú' area and a 'Sửa' button at the bottom right. The footer of the page includes social media icons for Facebook, Instagram, and Twitter, and the text 'Made by GS1 Team'.

Figure 39. View General Information of a Student screen

UC ID and Name:	UC-23_View student details		
Created By:	PhucND	Date Created:	25/09/2024
Primary Actor:	Secretary, Manager	Secondary Actors:	N/A
Trigger:	The users indicated that he wanted to see general details of a student.		
Description:	This use case allows users to view general details of a student, including personal details, contact information, and uploaded documents.		
Preconditions:	PRE-1 The user must login to the system. PRE-2 The user account has been authorized to perform the function.		
Postconditions:	POST-1 The general information of the student is displayed on the screen.		
Normal Flow	<p>23.0 View student details</p> <ol style="list-style-type: none"> Users access this page through the “Khóa sinh” button under “Khóa sinh” in the dashboard area on the left side of the page. Users click on the eye icon in the “Hành động” column of any student in the list of students. The system displays the general personal information of the student. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Use:	High		
Business Rules:	BR-05, BR-14, BR-21, BR-08, BR-13, BR-17.		
Other Information:	The time to load the screen is less than 3 seconds.		
Assumptions	- The system has accurate and up-to-date student data stored.		

UC ID and Name:	UC-23_View student details		
Created By:	PhucND	Date Created:	25/09/2024
Primary Actor:	Secretary, Manager	Secondary Actors:	N/A
Trigger:	The users indicated that he wanted to see general details of a student.		
Description:	This use case allows users to view general details of a student, including personal details, contact information, and uploaded documents.		
Preconditions:	PRE-1 The user must login to the system. PRE-2 The user account has been authorized to perform the function.		
Postconditions:	POST-1 The general information of the student is displayed on the screen.		
Normal Flow	<p>23.0 View student details</p> <ol style="list-style-type: none"> 1. Users access this page through the “Khóa sinh” button under “Khóa sinh” in the dashboard area on the left side of the page. 2. Users click on the eye icon in the “Hành động” column of any student in the list of students. 3. The system displays the general personal information of the student. 		
	- Uploaded images are displayed in the correct format.		

Table 29:View General Information of a Student function description

3.4.7 Edit student information

The screenshot shows the 'Thông tin khoá sinh' (Student Information) page. On the left is a sidebar with a navigation menu. The main area contains two tabs: 'Thông tin chung' (General Information) and 'Thông tin chi tiết' (Detailed Information). The General Information tab is active, showing fields for name (Nguyễn), gender (Nam), birthdate (13/11/2003), CMND number (0352 0300 0580), blood type (Giỏi), academic record (Tốt), father's name (Nguyễn Văn Xuyên), phone number (0969 583 865), email (nguyenvanxuyen@gmail.com), and address (Cố Loan, Cố Loa, Ninh Bình). Below these are placeholders for 'Anh CCCD mặt trước' (Front ID card photo) and 'Anh CCCD mặt sau' (Back ID card photo). A note section ('Ghi chú') is also present. The Detailed Information tab shows fields for admission status (Khóa tu mùa hè 2025), status (Trong khóa tu), supervisor (Trí), and approver (NinhNT). It also includes a note section and a 'Sửa' (Edit) button.

Figure 40. Edit student information

UC ID and Name:	UC-24_Edit student information		
Created By:	HauNX		
Primary Actor:	Secretary, Manager	Secondary Actor	Staff, Team Leader, Supervisor

Trigger:	Secretary or Manager decides to edit student in a course
Description:	This use case allows user to update the information of a student so that the user can edit when the student's information changes
Preconditions:	<p>PRE-1 User must login to the system.</p> <p>PRE-2 The user account has been authorized to perform the function.</p> <p>PRE-3 The student must exist in the system.</p>
Postconditions:	POST-1 The student is updated in the system
Normal Flow	<p>24.0 Edit student information</p> <ol style="list-style-type: none"> 1. The user accesses to student detail in a course (See 24.1) 2. The user clicks on “Sửa” button in the General Information section 3. The system displays a screen to edit the student 4. The user fills in all the input they want to edit and clicks “Lưu” (see 24.0.E1) 5. The system updates the student
Alternative Flows:	N/A
Exceptions:	<p>24.0.E1 The information is invalid</p> <ol style="list-style-type: none"> 1. If the entered information is invalid or incomplete, the system should display an alert message and prompt the student to retry.
Priority:	Normal
Frequency of Use:	Low
Business Rules:	BR-05, BR-14, BR-21, BR-17, BR-10, BR-11.
Other Information:	The system must respond and display the edit page within 2 seconds.

Assumptions:	After the user saves the information must be updated into the database and display a success message within a second, then back to the view student details screen.
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Table 30: Edit student information description

3.4.8 Edit student in a course

Thông tin khoá sinh

Thông tin chung

Họ và tên Nguyễn	Giới tính Nam	Ngày sinh 13/11/2003	Số CMND 0352 0300 0580
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Thông tin chi tiết

Khóa tu Khóa tu mùa hè 2025	Trạng thái Trong khóa tu	Chánh Trí	Người duyệt NinhNT
Thời gian sửa 12/03/2014	Người sửa NinhNT3	Ghi chú	

Sửa

Made by G51 Team

Figure 41. Update student in a course screen

UC ID and Name:	UC-25_Edit Student In a Course		
Created By:	HauNX	Date Created:	25/Sept/2024
Primary Actor:	Secretary, Manager	Secondary Actor	Staff, Team Leader, Supervisor
Trigger:	A secretary or manager indicated that he wanted to update the student information in a course.		
Description:	This use case allows user to update the information of a student in a course like student group, status, ... so that the user can update the student when the student's status changes		
Preconditions:	PRE-1 User must login to the system. PRE-2 The user account has been authorized to perform the function.		
Postconditions:	POST-1: The status of selected students is successfully updated in the system.		
Normal Flow	<p>25.0 Edit student in a course</p> <ol style="list-style-type: none"> 1. The user accesses a student detail in a course. 2. User clicks “Sửa” button in the “Thông tin chi tiết” section 3. Users input the right information for the student and clicks “Lưu” 4. The system updates and saves the new statuses for the selected students. 		
Alternative Flows:	N/A		
Exceptions:	<p>25.0.E1 The information is invalid</p> <ol style="list-style-type: none"> 1. If the entered information is invalid or incomplete, the system should display an alert message and prompt the student to retry. 		
Priority:	Medium		

Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-21, BR-07, BR-22.
Other Information:	The popup screen is display within 2 seconds
Assumptions	<p>AS-1: After the actor changes the status of student, there is a toast indicating the change is successful.</p> <p>AS-2: The system contains up-to-date information on all students within the course</p>

Table 31: Edit student in a course function description

3.4.9 Automatically assign registrations to secretaries

Figure 42. Automatically assign registrations to secretaries screen

UC ID and Name:	UC-26_Automatically assign registrations to secretaries		
Created By:	ThuyDTT	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Secretary
Trigger:	A manager indicated that he wanted to assign registration for secretaries.		
Description:	This use case allows the manager to automatically assign the registration list to secretaries so that the secretaries can reject or accept the registrations.		
Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function.		
Postconditions:	POST-1: Secretaries will be assigned to manage registrations.		
Normal Flow	<p>26.0 Automatically assign registrations to secretaries</p> <ol style="list-style-type: none"> Users access this page through the “Đơn đăng ký khóa sinh” button under “Đơn đăng ký” in the dashboard area on the left side of the page. Users select the “Chia thu kí” button. The system will once again confirm whether managers want to assign the secretaries or not. If the manager clicks on the “Xác nhận” button the system updates the secretaries assignment status for each registration. (see 26.0.E1, 26.0.E2) 		
Alternative Flows:	N/A		
Exceptions:	<p>26.0.E1 There is no secretary to divide</p> <ol style="list-style-type: none"> The system display error message indicates that there is no secretaries left <p>26.0.E2 All the students have been divided</p>		

	1. The system display error message indicates that there is no students to be divided
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-21, BR-23, BR-25, BR-22.
Other Information:	The popup screen is display within 2 seconds
Assumptions:	<ul style="list-style-type: none"> - After the user confirms, the data is updated in the database and displays a success message within a second, then back to the view student registration list.

Table 32: Auto assign student registration for secretaries function description

3.4.10 Automatically assign students to groups

Figure 43. Automatically assign students for student groups screen

UC ID and Name:	UC-27_Automatically assign students for student groups		
Created By:	ThuyDTT	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	A manager indicated that he wanted to assign students for a student group.		
Description:	This use case allows the manager or secretary to automatically assign the students to student groups.		

Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function.
Postconditions:	POST-1: Students will be assigned to following student groups.
Normal Flow	<p>27.0 Automatically assign students for student groups</p> <ol style="list-style-type: none"> 1. Users access this page through the “Đơn đăng ký khóa sinh” button under “Đơn đăng ký” in the dashboard area on the left side of the page. 2. Users select the “Phân chánh” button. 3. The system will once again confirm whether managers want to assign the students to student groups or not. 4. If the manager or secretary clicks on the “Xác nhận” button the system updates the students assignment status for each student group.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-21, BR-07, BR-08, BR-22.
Other Information:	The popup screen is display within 2 seconds
Assumptions:	<ul style="list-style-type: none"> - After the user confirms, the data is updated in the database and displays a success message within a second, then back to the view student registration list.

Table 33: Auto assign student for student groups function description

3.4.11 Manually assign students for student groups.

The screenshot shows the 'Danh sách khoá sinh' (Student List) screen. On the left, there's a sidebar with navigation links like 'Trang chủ', 'Danh sách khoá tu', 'Ban', 'Chánh', 'Khóa sinh', 'Đơn đăng kí', and 'Khóa sinh'. The main area has search and filter fields for 'Khóa tu', 'Mã HS', 'Tên', 'Số điện thoại', 'Trạng thái', 'Chánh', 'Ngày sinh từ', 'đến', 'Giới tính', and 'Tất cả' (All). Below these are buttons for 'Gửi email', 'Xuất thẻ', and 'Xuất'. The main table lists students with columns for 'Mã học sinh', 'Họ và tên', 'Phụ huynh', 'Điện thoại', 'Ngày sinh', 'Giới tính', 'Trạng thái', 'Chánh', and 'Thao tác'. One row is selected, showing 'KS001' and 'Nguyễn Xuân Hậu'. A tooltip for 'Chánh Đạo' is shown over a dropdown menu. At the bottom, there are page navigation buttons (1, 2, ..., 9, 10) and social media sharing icons.

Figure 44. Manually assign students for student groups screen

UC ID and Name:	UC-28 Manually assign registration for secretaries		
Created By:	ThuyDTT	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	N/A
Trigger:	A manager or secretary indicated that he wanted to assign students for student groups.		
Description:	This use case allows managers or secretaries to manually assign the students to student groups.		

Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function.
Postconditions:	POST-1: Students will be assigned to following student groups.
Normal Flow	<p>28.0 Manually assign registration for secretaries</p> <ol style="list-style-type: none"> 1. Users access this page through the “Đơn đăng ký khóa sinh” button under “Đơn đăng ký” in the dashboard area on the left side of the page. 2. Users select student groups which respond to each student in the “Chánh” column.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-21, BR-23, BR-22, BR-08, BR-07.
Other Information:	The popup screen is display within 2 seconds
Assumptions:	N/A

Table 34: Assign students to student groups function description

3.4.12 Export student list

Figure 45: Export student list to excel.

UC ID and Name:	UC-29_Export student list to excel		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	A manager or secretary indicated that he wanted to export the student/volunteer list to Excel.		
Description:	This use case allows managers or secretaries to export the student list to Excel.		

Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function. PRE-3 The students are divided into student groups.
Postconditions:	POST-1: Student/volunteer lists are successfully exported.
Normal Flow	29.0 Export student list to Excel. 1. Users access this page through the “Khóa sinh” button under “Khóa sinh” in the dashboard area on the left side of the page. 2. Users select the “Xuất” button.(see 29.0.E1)
Alternative Flows:	29.1 Export student in a group to Excel. 1. Users access this page through the “Chánh” in the dashboard area on the left side of the page. 2. Users click on one group in the list. 2. Users select the “Xuất” button.(see 29.1.E1)
Exceptions:	29.0.E1 Unable to download file 1. The system displays “Không thể tải file”. 29.0.E1 Unable to download team file 1. The system displays “Không thể tải file”.
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-21, BR-23, BR-24, BR-22.
Other Information:	The popup screen is display within 2 seconds
Assumptions:	AS-1: The system has access to the most current and accurate data for students and volunteers, organized appropriately for export.

Table 35: Export student to excel function description

3.4.13 Generate student cards.

Figure 46: Generate student/volunteer cards.

UC ID and Name:	UC-30_Generate student cards		
Created By:	NinhNT	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	A manager or secretary indicated that he wanted to generate the student/volunteer card.		
Description:	This use case allows managers or secretaries to generate the student cards.		
Preconditions:	PRE-1 Users must login to the system.		

	PRE-2 The user account has been authorized to perform the function. PRE-3 The students are divided into student groups.
Postconditions:	POST-1: Student/volunteer cards are successfully exported.
Normal Flow	<p>30.0 Generate student cards.</p> <ol style="list-style-type: none"> 1. Users access this page through the “Khóa sinh” button under “Khóa sinh” in the dashboard area on the left side of the page. 2. Users select the “In thé” button.(see 30.0.E1)
Alternative Flows:	N/A
Exceptions:	<p>30.0.E1 None of the student was selected</p> <ol style="list-style-type: none"> 1. The system displays “Chưa có khóa sinh nào được chọn”.
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-21, BR-23, BR-24, BR-22.
Other Information:	The popup screen is display within 2 seconds
Assumptions:	<ul style="list-style-type: none"> - The system has access to the most current and accurate data for students and volunteers, organized appropriately for generating cards.

Table 36: Generate student/volunteer cards

3.4.14. Send email.

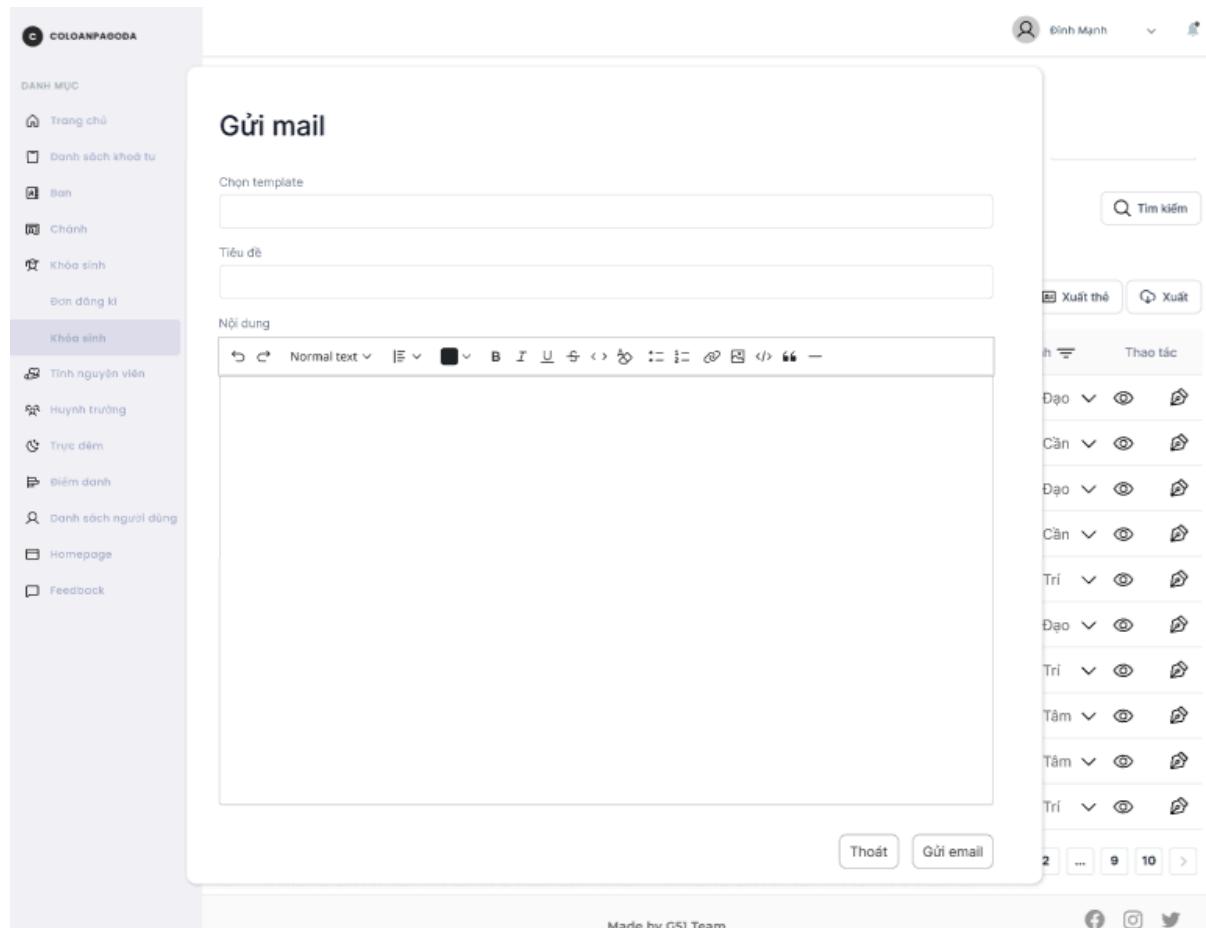


Figure 47. Send the success/failure registration for students/volunteers

UC ID and Name:	UC-31 Send email		
Created By:	NinhNT	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	A manager or secretary indicated that he wanted to send the email to students or volunteers.		
Description:	This use case allows managers or secretaries to send the success/failure registration email for the students or volunteers.		
Preconditions:	PRE-1 Users must login to the system.		

	PRE-2 The user account has been authorized to perform the function.
Postconditions:	POST-1: Emails are successfully sent to students or volunteers who are chosen by the manager or secretary.
Normal Flow	<p>31.0 Send the success/failure registration email for students.</p> <ol style="list-style-type: none"> 1. Users access this page through the “Đơn đăng ký” button under “Khóa sinh” in the dashboard area on the left side of the page. (see 31.1) 2. Users select the “Gửi kết quả” button.(see 31.0.E1) 3. Users select template and subject for email and click “Gửi” button to send email.
Alternative Flows:	<p>31.1 Send the success/failure registration email for students/volunteers.</p> <ol style="list-style-type: none"> 1. Users access this page through the “Đơn đăng ký” button under “Tình nguyện viên” in the dashboard area on the left side of the page. 2. Users select the “Gửi kết quả” button.(see 31.1.E1) 3. Users select template and subject for email and click “Gửi” button to send email.
Exceptions:	<p>31.0.E1 No students were selected EX-1: The system displays “Chọn khóa sinh để gửi email”.</p> <p>31.1.E1 No volunteers were selected EX-2: The system displays “Chọn tình nguyện viên để gửi email”.</p>
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-05,BR-14,BR-23,BR-24
Other Information:	The popup screen is display within 2 seconds
Assumptions:	AS-1: The system contains up-to-date email addresses for all students and volunteers, ensuring emails are sent to the correct recipients

Table 37: Send the success/failure registration email to students function description.

3.5 Student group management

3.5.1 View Student Group List

Tên chánh ↓	Giới tính	Số lượng dự kiến ↓	Ngày tạo ↓	Huynh trưởng ↓	Thao tác
Trí	Nam	30	08/10/2024	PhucND NinhNT MạnhDD	
Đạo	Nam	30	08/10/2024	ThangPD HauNX HaiNB	
Cần	Nam	30	08/10/2024	TrungNT SonNT KienLT	
Tâm	Nữ	30	08/10/2024	ThuyDTT ThanhDT NangNT	
Nguyễn	Nữ	30	08/10/2024	YenLTH ChauLK VanDK	
Niệm	Nữ	30	08/10/2024	TrangLK AnhNTP KieuKT	

Figure 48. View Student Group List screen

UC ID and Name:	UC-32_View Student Group List		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	Supervisor
Trigger:	The user wants to view a list of all student groups.		
Description:	This use case allows authorized users to view a list of all student groups. The list includes details such as group name, assigned supervisor. Users can also search or filter the groups based on course.		

Preconditions:	PRE-1: Users must log in to the system. PRE-2: The user account must be authorized to perform the function. PRE-3: Student groups must already exist in the system.
Postconditions:	POST-1: The system successfully displays the list of student groups with relevant information.
Normal Flow	<p>32.0 View Student Group List course filter</p> <ol style="list-style-type: none"> 1. The user navigates to the "Danh sách chánh" page via the "Chánh" menu in the dashboard. 2. The users course for which they want to view the student group list.(See 32.1.E1). 2. The system displays a table of all student groups with relevant information.
Alternative Flows:	N/A
Exceptions:	<p>32.1.E1 There is no matching result with search</p> <ol style="list-style-type: none"> 1. The system displays “Không có kết quả phù hợp”.
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-51, BR-57, BR-58, BR-61
Other Information:	- The page must load within 3 seconds.
Assumptions:	- All student groups are pre-registered and stored in the system.

Table 38: View Student Group List function description

3.5.2 Add Student Group

The screenshot displays the 'Danh sách chánh' (List of heads) page. On the left sidebar, under 'Danh mục', 'Chánh' is selected. The main area shows a table of existing heads with columns: Tên chánh, Giới tính, Số lượng dự kiến, Ngày tạo, and Huynh trưởng. A modal window titled 'Tạo chánh mới' (Create new head) is open, allowing the entry of new head information. The 'Tạo' button is visible at the bottom of the modal.

Figure 49. Add Student Group screen

UC ID and Name:	UC-33_Add Student Group		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	The user initiates the process to create a new student group.		
Description:	This use case allows the manager or secretary to add a new student group by specifying the group name, gender, and optionally assigning supervisors. Gender must be selected before assigning supervisors to ensure proper allocation.		
Preconditions:	PRE-1: Users must log in to the system. PRE-2: The user account must be authorized to perform the function.		

Postconditions:	POST-1: The new student group is successfully created and added to the list.
Normal Flow	<p>33.0 Edit Student Group</p> <ol style="list-style-type: none"> 1. The user navigates to the "Danh sách chánh" page via the "Chánh" menu in the dashboard. 2. The user clicks the "Thêm Chánh" button. 3. The system displays a popup form with the following fields.(See 33.0.E1) 4. The user enters the group name and selects a gender.(See 33.0.E2) 5. Once the gender is selected, the supervisor dropdown is enabled, and the user can select one or more supervisors to assign to the group. 6. The user clicks the "Lưu thay đổi" button. 7. The system displays a success message: "Tạo chánh thành công". 8. The user is returned to the "Danh sách Chánh" page, where the new group is displayed.
Alternative Flows:	N/A
Exceptions:	<p>33.0.E1 Fill student group's name with empty values.</p> <ol style="list-style-type: none"> 1. The system displays “Vui lòng nhập tên chánh”. <p>33.0.E2 Not choose gender for student group.</p> <ol style="list-style-type: none"> 1. The system displays “Vui chọn giới tính”.
Priority:	High
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-51, BR-52, BR-53, BR-54, BR-56, BR-57, BR-63, BR-64
Other Information:	- The page must load within 3 seconds.

Assumptions:	<ul style="list-style-type: none"> - All student group data is pre-existing and available in the system. - If the gender isn't chosen the available supervisor can not be seen.
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Table 39: Add Student Group function description

3.5.3 Edit Student Group

Figure 50. Edit Student Group screen

UC ID and Name:	UC-34_Edit Student Group		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	Supervisor
Trigger:	The user wants to update information about a specific student group.		
Description:	The user wants to update information about a specific student group.		

Preconditions:	<p>PRE-1: Users must log in to the system.</p> <p>PRE-2: The user account must be authorized to perform the function.</p> <p>PRE-3: Student groups must already exist in the system.</p>
Postconditions:	POST-1: The system successfully displays the list of student groups with updated information.
Normal Flow	<p>34.0 Edit Student Group</p> <ol style="list-style-type: none"> 1. The user navigates to the "Danh sách chánh" page via the "Chánh" menu in the dashboard. 2. The user identifies the student group they want to edit from the list and clicks the pencil icon in the "Thao Tác" column. 3. The system opens a popup form pre-filled with the current information for the selected student group. 4. The user updates the necessary fields (e.g., group name, gender, or assigned supervisors).(See 34.0.E1) 5. The user clicks the "Lưu thay đổi" button. 6. The system displays a success message: "Cập nhật chánh thành công". 7. The user is returned to the "Danh sách Chánh" page, where the updated information is displayed.
Alternative Flows:	N/A
Exceptions:	<p>34.0.E1 Fill student group's name with empty values</p> <ol style="list-style-type: none"> 1. The system displays “Vui lòng nhập tên chánh”.
Priority:	High
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-51, BR-52, BR-53, BR-54, BR-57, BR-63, BR-64
Other Information:	<ul style="list-style-type: none"> - The page must load within 3 seconds.

Assumptions:	<ul style="list-style-type: none"> - All student group data is pre-existing and available in the system. - Input validation is performed both on the client and server sides.
--------------	---

Table 40: Edit Student Group function description

3.5.4 View Student Group Details

Figure 51. View Student Group Details screen

UC ID and Name:	UC-35_View Student Group Details		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary, Supervisor	Secondary Actors:	N/A

Trigger:	The user indicated that he wanted to see a specific student group in the group list.
Description:	This use case allows authorized users to view detailed information about a specific student group, including its name, gender, assigned supervisors, creation details, and a list of students belonging to the group.
Preconditions:	<p>PRE-1: Users must log in to the system.</p> <p>PRE-2: The user account must be authorized to perform the function.</p> <p>PRE-3: Student groups must already exist in the system.</p>
Postconditions:	POST-1: The detailed information about the selected student group is displayed on the screen.
Normal Flow	<p>35.0 View Student Group Details without search or filter.</p> <ol style="list-style-type: none"> 1. The user navigates to the "Danh sách chánh" page via the "Chánh" menu in the dashboard. 2. The user identifies the student group they want to view and clicks the eye icon in the "Thao Tác" column. 3. The system retrieves the following detailed information and list of students belonging to the group with the following column(eg: Mã HS, Họ và tên, Nhận xét) for each student in the list in the selected group.(See 35.1)
Alternative Flows:	<p>35.1 View Student Group Details with search or filter.</p> <ol style="list-style-type: none"> 1. The user chooses the criteria that they want to search or filter. 2. The user clicks “Tìm kiếm” button. 3. The system displays the student list that matches what the user searched.
Exceptions:	<p>35.1.E1 There is no matching result with search</p> <ol style="list-style-type: none"> 1. The system displays “Không có kết quả phù hợp”.
Priority:	High

Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-51, BR-52, BR-58, BR-59
Other Information:	<ul style="list-style-type: none"> The page must load within 3 seconds.
Assumptions:	<ul style="list-style-type: none"> All required group and student data is pre-existing and stored in the system. Pagination must be available for the student list if the number of students exceeds the display limit.

Table 41: View Student Group Details description

3.5.5 Remove students from student group

Họ và tên ↓	Xác nhận	Ngày sinh ↓	Giới tính ↓	Chánh ↓	Thao tác
Nguyễn Xuân Hậu	Xác nhận	13/11/2003	Nữ	Chưa phân	
Đậu Đinh Long	Xác nhận	13/11/2002	Nữ	Chưa phân	
Đậu Đinh Long	Thoát	13/11/2003	Nữ	Chưa phân	
Lê Hải Đăng	Thoát	12/04/2001	Nam	Chưa phân	
Lê Văn Nguyên	Thoát	14/07/2000	Nam	Chưa phân	
Nguyễn Xuân Hậu	Thoát	12/04/2001	Nam	Chưa phân	
Lê Hải Đăng	Thoát	12/04/2001	Nữ	Chưa phân	
Đậu Đinh Long	Thoát	13/11/2003	Nam	Chưa phân	
Lê Hải Đăng	Thoát	13/11/2002	Nam	Chưa phân	
Dặng Hải An	Thoát	13/11/2002	Nam	Chưa phân	

Table 52: Remove students from groups description

UC ID and Name:	UC-36_Remove students from groups		
Created By:	HauNX	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	The user indicated that he wanted to remove students from a group		
Description:	This use case allows authorized users to remove students from a specific student group		
Preconditions:	PRE-1: Users must log in to the system. PRE-2: The user account must be authorized to perform the function. PRE-3: Student groups must already exist in the system.		
Postconditions:	POST-1: The detailed information about the selected student group is displayed on the screen.		
Normal Flow	36.0 Remove students from group 1. The user navigates to the "Danh sách chánh" page via the "Chánh" menu in the dashboard. 2. The user identifies the student group they want to view and clicks the eye icon in the "Thao Tác" column. 3. The system retrieves the following detailed information and list of students belonging to the group with the following column(eg: Mã HS, Họ và tên, Nhận xét) for each student in the list in the selected group. 4. The user selects the students to be removed from group 5. The user clicks “Xoá” button		
Alternative Flows:	N/A		
Exceptions:	36.1.E0 There is no students in the group 1. The system displays “Không có kết quả phù hợp”.		

Priority:	High
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-51, BR-52, BR-58, BR-59
Other Information:	<ul style="list-style-type: none"> - The page must load within 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - All required group and student data is pre-existing and stored in the system. - Pagination must be available for the student list if the number of students exceeds the display limit.

Table 42: Remove students from group

3.5.6 View student's evaluation

Table 53: View student's evaluation

UC ID and Name:	UC-37_View student's evaluation		
Created By:	HauNX	Date Created:	25/Sept/2024

Primary Actor:	Guest, Manager, Secretary, Staff, Team Leader, Supervisor	Secondary Actors:	N/A
Trigger:	The actor wants to see the student result in a course		
Description:	This use case allows actors to search for the student's evaluation in a course		
Preconditions:	PRE-1: The students has enrolled in the course and are evaluated by supervisors.		
Postconditions:	POST-1: The evaluation is displayed on the screen		
Normal Flow	<p>37.0 View student's evaluation</p> <ol style="list-style-type: none"> 1. Access the homepage and click on the student evaluation page 2. Input the course and student code 3. Click search button 4. The student's evaluation is displayed on the screen (37.0.E1) 		
Alternative Flows:	N/A		
Exceptions:	<p>37.0.E1. No student's result is display</p> <ol style="list-style-type: none"> 1. The system displays there is no result 		
Priority:	High		
Frequency of Use:	Medium		
Business Rules:	BR-112		
Other Information:	<ul style="list-style-type: none"> - The page must load within 3 seconds. 		
Assumptions:	<ul style="list-style-type: none"> - The dropdown only displays courses that are currently open 		

Table 43: View student's evaluation description

3.5.7 Delete Student Group

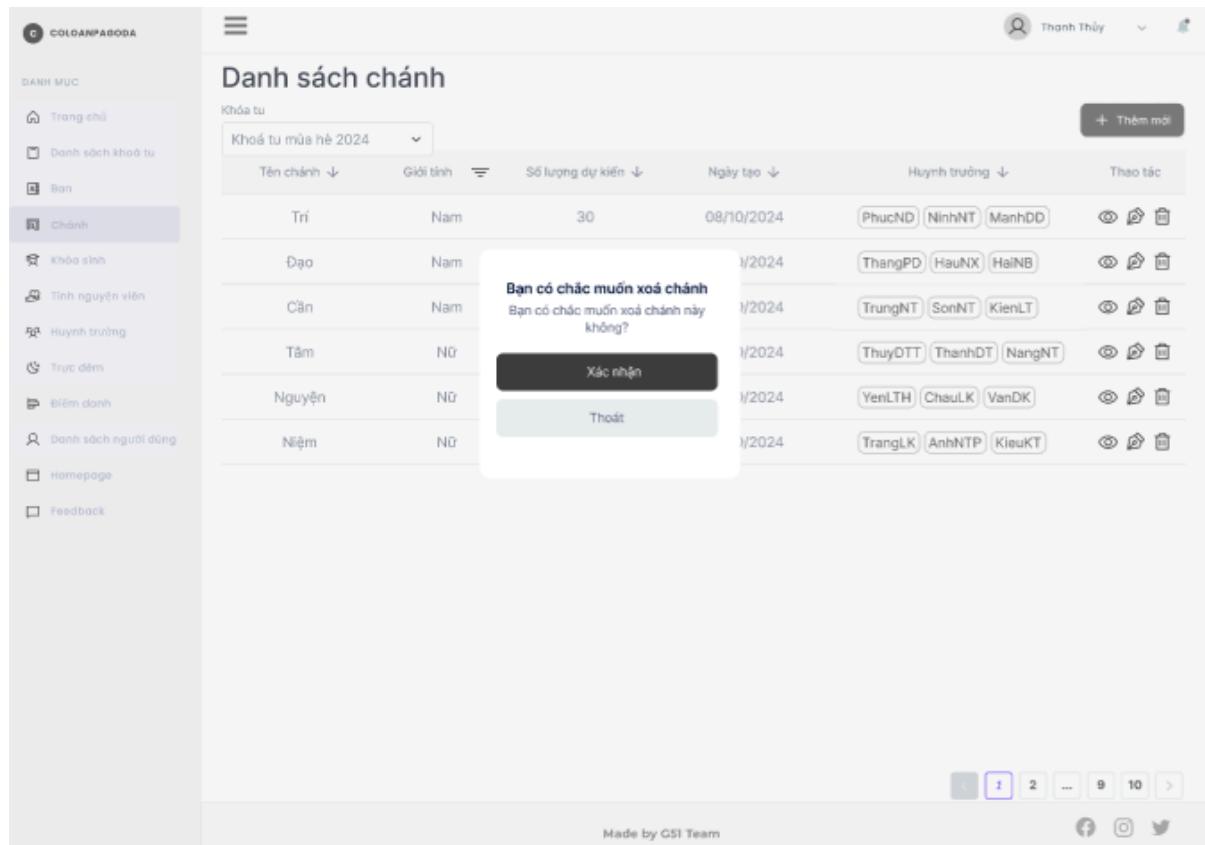


Figure 54. Delete Student Group screen

UC ID and Name:	UC-38_Delete Student Group		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	The user wants to delete a specific student group.		
Description:	This use case allows authorized users to delete an existing student group from the system.		
Preconditions:	PRE-1: Users must log in to the system. PRE-2: The user account must be authorized to perform the function. PRE-3: Student groups must already exist in the system.		

Postconditions:	POST-1: The selected student group is removed from the system and no longer displayed in the group list.
Normal Flow	<p>38.0 Delete Student Group</p> <ol style="list-style-type: none"> 1. The user navigates to the "Danh sách chánh" page via the "Chánh" menu in the dashboard. 2. The user identifies the student group to delete and clicks the "Delete" icon (trash bin) in the "Thao Tác" column. 3. The system displays a confirmation dialog with the message: "Bạn có chắc chắn muốn xóa chánh [Group Name] không?" 4. The user clicks the "Xác nhận" button. 5. The user is returned to the "Danh sách Chánh" page, and the group is no longer listed.
Alternative Flows:	<p>38.0 Delete Student Group</p> <ol style="list-style-type: none"> 1. The user clicks the "Hủy" button in the confirmation dialog. 2. The system cancels the deletion process and closes the confirmation dialog, returning the user to the group list without making any changes.
Exceptions:	N/A
Priority:	High
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-51, BR-55, BR-60, BR-63, BR-64
Other Information:	<ul style="list-style-type: none"> - The page must load within 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - After the user confirms, soft delete the student group and display a success message within a second, then back to the view student group screen.

Table 44: Delete Student Group function description

3.6 Supervisor management

3.6.1 View Supervisor List

Họ và tên	Điện thoại	Email	Ngày sinh	Giới tính	Chánh	Thao tác
<input checked="" type="checkbox"/> Nguyễn Xuân Hậu	0969 583 865	example@gmail.com	13/11/2003	Nữ	Chưa phân	
<input checked="" type="checkbox"/> Đặng Đình Long	0969 583 865	example@gmail.com	13/11/2002	Nữ	Chưa phân	
<input type="checkbox"/> Đặng Đình Long	0969 583 865	example@gmail.com	13/11/2003	Nữ	Chưa phân	
<input type="checkbox"/> Lê Hải Đăng	0969 583 865	example@gmail.com	12/04/2001	Nam	Chưa phân	
<input type="checkbox"/> Lê Văn Nguyên	0969 583 865	example@gmail.com	14/07/2000	Nam	Chưa phân	
<input type="checkbox"/> Nguyễn Xuân Hậu	0934 567 890	example@gmail.com	12/04/2001	Nam	Chưa phân	
<input type="checkbox"/> Lê Hải Đăng	0912 345 678	example@gmail.com	12/04/2001	Nữ	Chưa phân	
<input type="checkbox"/> Đặng Đình Long	0934 567 890	example@gmail.com	13/11/2003	Nam	Chưa phân	
<input type="checkbox"/> Lê Hải Đăng	0912 345 678	example@gmail.com	13/11/2002	Nam	Chưa phân	
<input type="checkbox"/> Đặng Hải An	0987 654 321	example@gmail.com	13/11/2002	Nam	Chưa phân	

Figure 55. View Supervisor List screen

UC ID and Name:	UC-39_View Supervisor List		
Created By:	ManhDD	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Secretary
Trigger:	The manager initiates the action to view the list of supervisors for management purposes or for assigning tasks.		

Description:	This use case allows the manager to view a list of supervisors along with their associated details, such as name, phone number, email, gender, and assigned responsibilities.
Preconditions:	PRE-1: Users must log in to the system. PRE-2: The user account must be authorized to perform the function.
Postconditions:	POST-1: The system successfully displays the supervisor list, allowing the manager to browse or search for specific supervisors.
Normal Flow	<p>39.0 View Supervisor List without any search or filter.</p> <ol style="list-style-type: none"> 1. The manager accesses the supervisor management page via the "Huynh Trưởng" menu in the sidebar.(See 39.1) 2. The system displays the list of supervisors and supervisor's information.
Alternative Flows:	<p>39.1 View Supervisor List with search or filter.</p> <ol style="list-style-type: none"> 1. The manager uses the filter options to search for specific supervisors by name, phone number, or email. 2. The manager clicks “Tìm kiếm” button.(see 39.1.E1) 3. The system dynamically updates the displayed list based on the entered filter criteria.
Exceptions:	<p>39.1.E1 There is no matching result with search</p> <ol style="list-style-type: none"> 1. The system displays “Không có kết quả phù hợp”.
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-41, BR-47
Other Information:	- The system must load the supervisor list page within 3 seconds.

Assumptions:	- Supervisor data is already stored in the database and is accessible for display and filtering.
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Table 45. View Supervisor List description

3.6.2 Add Supervisors

Mã học sinh	Họ và tên	Phụ huynh	Điện thoại	Ngày sinh
KS001	Nguyễn Xuân Hậu	Đậu Đinh Long	0969 583 865	13/11/2014
KS001	Đậu Đinh Long	Đậu Đinh Long	0969 583 865	12/04/2010
KS001	Đậu Đinh Long	Lê Hải Đăng	0969 583 865	13/11/2014
KS001	Lê Hải Đăng	Nguyễn Xuân Hậu	0969 583 865	14/07/2009
KS001	Lê Văn Nguyên	Lê Văn Nguyên	0969 583 865	14/07/2009

Figure 56. Add Supervisors screen

UC ID and Name:	UC-40_Add Supervisors		
Created By:	ManhDD	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Secretary
Trigger:	The manager wants to designate a staff member as a supervisor (Huynh Trưởng) in the system.		

Description:	This use case allows the manager to select staff members from a list and assign them the role of a supervisor (Huynh Trưởng). Once the assignment is successful, the selected staff will be added as supervisors and recognized as such in the system.
Preconditions:	PRE-1: Users must log in to the system. PRE-2: The user account must be authorized to perform the function. PRE-3: The staff list must already be populated in the system.
Postconditions:	POST-1: The selected staff members are successfully added as supervisors in the system. POST-2: The system updates the supervisor list to reflect the new additions.
Normal Flow	<p>40.0 Add Supervisor</p> <ol style="list-style-type: none"> 1. The user navigates to the "Danh sách Huynh Trưởng" page via the "Huynh Trưởng" menu in the sidebar. 2. The user clicks the "Thêm Huynh Trưởng" button. 3. The system opens a popup displaying the list of staff members, including their information. 4. The user can search for specific staff members by name, phone number, or email using the filter fields at the top of the popup. 5. The user selects one or more staff members by checking the corresponding checkboxes. 6. The user clicks the "Xác nhận" button to complete the selection.(See 40.0.E1). 7. The system displays a success message: "Thêm Huynh Trưởng thành công." and send notification to supervisors.
Alternative Flows:	N/A
Exceptions:	<p>40.0.E1: None of the staffs were chosen</p> <ol style="list-style-type: none"> 1. The system display “Vui lòng chọn ít nhất một nhân viên”

Priority:	High
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-44, BR-49
Other Information:	<ul style="list-style-type: none"> The system must load the staff list popup within 3 seconds..
Assumptions:	<ul style="list-style-type: none"> The role assignment process automatically. When the assignment is successful staff can receive notification.

Table 46. Add Supervisor description

3.6.3 Delete Supervisor

Họ và tên	Số điện thoại	Email	Ngày sinh	Giới tính	Chánh	Thao tác
Nguyễn Xuân Hậu	0969 583 865	example@gmail.com	13/11/2003	Nữ	Chưa phân	
Đặng Đình Long	0934 567 890	example@gmail.com	12/04/2001	Nam	Chưa phân	
Lê Hải Đăng	0912 345 678	example@gmail.com	14/07/2000	Nam	Chưa phân	
Lê Văn Nguyên	0912 345 678	example@gmail.com	13/11/2003	Nữ	Chưa phân	
Đặng Hải An	0987 654 321	example@gmail.com	13/11/2002	Nam	Chưa phân	

Figure 57. Delete Supervisor screen

UC ID and Name:	UC-41_Delete Supervisor		
Created By:	ManhDD	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Secretary
Trigger:	The manager decides to remove the "Huynh Trưởng" role (Supervisor) from a specific staff member and revert them to a normal staff role.		
Description:	This use case allows the manager to remove a supervisor from the list of "Huynh Trưởng." Upon confirmation, the selected supervisor's role is reverted to that of a regular staff member, and they are no longer listed as a supervisor.		
Preconditions:	<p>PRE-1: Users must log in to the system.</p> <p>PRE-2: The user account must be authorized to perform the function.</p> <p>PRE-3: The supervisor to be deleted must already exist in the system.</p>		
Postconditions:	POST-1: The selected supervisor is removed from the "Danh sách Huynh Trưởng" list and their role is reverted to "Nhân viên" (Staff).		
Normal Flow	<p>41.0 Delete Supervisor</p> <ol style="list-style-type: none"> 1. The user navigates to the "Danh sách Huynh Trưởng" page via the "Huynh Trưởng" menu in the sidebar. 2. The manager clicks the delete icon (trash bin) in the "Thao tác" column corresponding to the supervisor who they want to remove from the list. 3. The system displays a confirmation popup: "Bạn có chắc chắn muốn loại bỏ Huynh Trưởng '<Supervisor Name>' và chuyển họ trở lại vai trò 'Nhân viên'?(See 41.1). 4. The manager clicks "Xác nhận" to proceed. 5. The system displays a success message: "Đã loại bỏ Huynh Trưởng thành công." 		

Alternative Flows:	41.1 Cancel Delete Supervisor 1. At the confirmation popup, the manager clicks "Hủy." 2. The system closes the popup without making any changes.
Exceptions:	N/A
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-43, BR-44, BR-48
Other Information:	- The system must load the staff list popup within 3 seconds..
Assumptions:	BR-05, BR-14, BR-43, BR-44, BR-48

Table 47. Delete Supervisor description

3.6.4 Manually Assign Supervisors to Student Groups

Họ và tên ↓	Điện thoại ↓	Email ↓	Ngày sinh ↓	Giới tính ↓	Chánh ↓	Thao tác
<input checked="" type="checkbox"/> Nguyễn Xuân Hậu	0969 583 865	example@gmail.com	13/11/2003	Nữ	Chưa phân	
<input checked="" type="checkbox"/> Đặng Dinh Long	0969 583 865	example@gmail.com	13/11/2002	Nữ	Chánh Cán	
<input type="checkbox"/> Đặng Dinh Long	0969 583 865	example@gmail.com	13/11/2003	Nữ	Chánh Đạo	
<input type="checkbox"/> Lê Hải Đăng	0969 583 865	example@gmail.com	12/04/2001	Nam	Chánh Trí	
<input type="checkbox"/> Lê Văn Nguyên	0969 583 865	example@gmail.com	14/07/2000	Nam	Chánh Định	
<input type="checkbox"/> Nguyễn Xuân Hậu	0934 567 890	example@gmail.com	12/04/2001	Nam	Chưa phân	
<input type="checkbox"/> Lê Hải Đăng	0912 345 678	example@gmail.com	12/04/2001	Nữ	Chưa phân	
<input type="checkbox"/> Đặng Dinh Long	0934 567 890	example@gmail.com	13/11/2003	Nam	Chưa phân	
<input type="checkbox"/> Lê Hải Đăng	0912 345 678	example@gmail.com	13/11/2002	Nam	Chưa phân	
<input type="checkbox"/> Đăng Hải An	0987 654 321	example@gmail.com	13/11/2002	Nam	Chưa phân	

Figure 58. Manually Assign Supervisors to Student Groups screen

UC ID and Name:	UC-42_Manually Assign Supervisors to Student Groups		
Created By:	ManhDD	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	The manager or secretary initiates the action to manually assign supervisors to student groups for management and reporting purposes.		
Description:	This use case allows the manager or secretary to manually assign available supervisors to specific student groups.		
Preconditions:	PRE-1: Users must log in to the system.		

	<p>PRE-2: The user account must be authorized to perform the function.</p> <p>PRE-3: Supervisors and student groups must already exist in the system.</p>
Postconditions:	POST-1: Supervisors are successfully assigned to the relevant student groups.
Normal Flow	<p>42.0 Manually Supervisors to Student Groups</p> <ol style="list-style-type: none"> 1. The user navigates to the "Danh sách Huynh Trưởng" page via the "Huynh Trưởng" menu in the sidebar. 2. The user selects a supervisor by clicking the dropdown in the "Chánh" column for a specific student group. 3. The system updates the supervisor assignment and displays a success message: "Phân Huynh trưởng thành công." 4. The updated assignment is reflected in the "Chánh" column for the selected supervisor.
Alternative Flows:	N/A
Exceptions:	<p>42.0.E1: No available supervisors or student groups are found.</p> <ol style="list-style-type: none"> 1. The system displays an error message: ""Không có Huynh Trưởng hoặc nhóm học sinh nào để phân chánh."
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-42, BR-44, BR-46
Other Information:	<ul style="list-style-type: none"> - The system must load the staff list popup within 3 seconds..
Assumptions:	<ul style="list-style-type: none"> - All supervisors and student groups are pre-registered and available in the system. - Assignment logic ensures balanced workloads across all supervisors.

Table 48. Manually Assign Supervisors to Student Groups description

3.6.5 Auto-Assign Supervisors to Student Groups

Họ và tên	Ngày sinh	Giới tính	Chánh	Thao tác
Nguyễn Xuân Hậu	13/11/2003	Nữ	Chưa phân	
Đặng Đình Long	13/11/2002	Nữ	Chưa phân	
Đặng Đình Long	13/11/2003	Nữ	Chưa phân	
Lê Hải Đăng	12/04/2001	Nam	Chưa phân	
Lê Văn Nguyên	14/07/2000	Nam	Chưa phân	
Nguyễn Xuân Hậu	12/04/2001	Nam	Chưa phân	
Lê Hải Đăng	12/04/2001	Nữ	Chưa phân	
Đặng Đình Long	13/11/2003	Nam	Chưa phân	
Lê Hải Đăng	13/11/2002	Nam	Chưa phân	
Đặng Hải An	13/11/2002	Nam	Chưa phân	

Figure 59. Auto-Assign Supervisors to Student Groups screen

UC ID and Name:	UC-43_Auto-Assign Supervisors to Student Groups		
Created By:	ManhDD	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	The manager or secretary initiates the action to automatically assign supervisors to student groups for management and reporting purposes.		
Description:	This use case allows the manager or secretary to automatically assign available supervisors to specific student groups.		

Preconditions:	<p>PRE-1: Users must log in to the system.</p> <p>PRE-2: The user account must be authorized to perform the function.</p> <p>PRE-3: Supervisors and student groups must already exist in the system.</p>
Postconditions:	POST-1: Supervisors are successfully assigned to the relevant student groups.
Normal Flow	<p>43.0 Auto-Assign Supervisors to Student Groups</p> <ol style="list-style-type: none"> 1. The user navigates to the "Danh sách chánh" page via the "Chánh" menu in the sidebar. 2. The user clicks the "Phân huynh trưởng" button. 3. The system displays a confirmation popup: "Bạn có chắc chắn muốn tự động phân Huynh trưởng cho các chánh chưa có Huynh trưởng không?"(See 43.1) 4. The user clicks the "Xác nhận" button.(See 43.0.E1, 43.0.E2). 5. The system automatically assigns supervisors to student groups based on availability. 6. The system updates the database with the new assignments and displays a success message: "Phân Huynh trưởng tự động thành công. Tất cả chánh đã có Huynh trưởng."
Alternative Flows:	<p>43.1 Cancel Auto-Assign</p> <ol style="list-style-type: none"> 1. At the confirmation popup, the user clicks "Thoát.". 2. The system closes the popup without making any changes.
Exceptions:	<p>43.0.E1: No available supervisors are found.</p> <ol style="list-style-type: none"> 1. The system displays an error message: "Không còn Huynh trưởng nào để phân Chánh trong khóa tu này." <p>43.0.E2: No available student groups are found.</p> <ol style="list-style-type: none"> 1. The system displays an error message: "Không có chánh nào trong khóa tu này."
Priority:	Medium

Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-44, BR-45, BR-50
Other Information:	<ul style="list-style-type: none"> - The system must load the staff list popup within 3 seconds..
Assumptions:	<ul style="list-style-type: none"> - All supervisors and student groups are pre-registered and available in the system. - Assignment logic ensures balanced workloads across all supervisors.

Table 49. Auto-Assign Supervisors to Student Groups description

3.7 Team management

3.7.1 View Team List

Tên ban ↓	Giới tính	Số lượng dự kiến ↓	Trưởng ban ↓	Ngày tạo ↓	Thao tác
Môi trường	Nam	30	HauNX	08/10/2024	
Hướng dẫn	Nam	30	NinhNT	08/10/2024	
Hành đường	Nam	30	PhucND	08/10/2024	
Tri khách	Nữ	30	ThuyDTT	08/10/2024	
Cơ động	Nữ	30	ThanhDT	08/10/2024	

Figure 60. View Team List screen

UC ID and Name:	UC-44_Team List		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	The user wants to view a list of all teams.		
Description:	This use case allows authorized users to view a list of all teams. The list includes details such as team name, gender, estimated members, and team leader. Users can also filter or search for specific teams.		
Preconditions:	PRE-1: Users must log in to the system. PRE-2: The user account must be authorized to perform this function. PRE-3: Teams must already exist in the system.		
Postconditions:	POST-1: The system successfully displays the list of teams with relevant information.		
Normal Flow	44.0 View Team List course filter 1. The user navigates to the "Danh sách ban" page via the "Ban" menu in the dashboard. 2. The users choose the course for which they want to view the team list.(See 44.1.E1). 3. The system displays a table of all teams with relevant information.		
Alternative Flows:	N/A		
Exceptions:	44.1.E1 There is no matching result with search 1. The system displays “Không có kết quả phù hợp”.		
Priority:	High		
Frequency of Use:	High		

Business Rules:	BR-05, BR-14
Other Information:	- The page must load within 3 seconds.
Assumptions:	- All teams are pre-registered and stored in the system.

Table 50: View Team List function description

3.7.2 View Team Details

Mã TNV	Tên	Số điện thoại	Giới tính	Trạng thái
KS001	Đặng Đinh Long	0969 583 865	Nữ	Trong khoá tu
KS001	Đặng Đinh Long	0969 583 865	Nữ	Chưa tới
KS001	Lê Hải Đăng	0969 583 865	Nam	Chưa tới
KS001	Lê Văn Nguyên	0969 583 865	Nam	Chưa tới
KS001	Nguyễn Xuân Hậu	0934 567 890	Nam	Trong khoá tu
KS001	Lê Hải Đăng	0912 345 678	Nữ	Bỏ dở
KS001	Đặng Đinh Long	0934 567 890	Nam	Trong khoá tu
KS001	Lê Hải Đăng	0912 345 678	Nam	Bỏ dở
KS001	Đặng Hải An	0987 654 321	Nam	Hoàn thành

Figure 61. View Team Details screen

UC ID and Name:	UC-45_View Team Details
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Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	Team Leader
Trigger:	The user wants to view details of a specific team.		
Description:	This use case allows authorized users to view detailed information about a specific team, and a list of volunteers belonging to the team.		
Preconditions:	PRE-1: Users must log in to the system. PRE-2: The user account must be authorized to perform the function. PRE-3: Volunteer groups must already exist in the system.		
Postconditions:	POST-1: The detailed information about the selected team is displayed on the screen.		
Normal Flow	<p>45.0 View Team Details without search or filter of volunteers.</p> <ol style="list-style-type: none"> 1. The user navigates to the "Danh sách Ban" page via the "Ban" menu in the dashboard. 2. The user identifies the student group they want to view and clicks the eye icon in the "Thao Tác" column. 3. The system retrieves the following detailed information and list of volunteers belonging to the team with the following column(Mã TNV, Họ và tên,...) for each volunteer in the list in the selected team.(See 45.1) 		
Alternative Flows:	<p>45.1 View Team Details with search or filter volunteers.</p> <ol style="list-style-type: none"> 1. The user chooses the criteria that they want to search or filter. 2. The user clicks “Tìm kiếm” button. 3. The system displays the volunteer list that matches what the user searched. 		
Exceptions:	<p>45.1.E1 There is no matching result with search</p> <ol style="list-style-type: none"> 1. The system displays “Không có kết quả phù hợp”. 		
Priority:	High		

Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-113, BR-114
Other Information:	<ul style="list-style-type: none"> - The page must load within 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - All required team and volunteer data is pre-existing and stored in the system. - Pagination must be available for the student list if the number of volunteers exceeds the display limit.

Table 51: View Team Details description

3.7.3 Add Team

Figure 62. Add Team screen

UC ID and Name:	UC-46_Add Team		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	The user initiates the process to create a new student group.		
Description:	This use case allows authorized users to create a new team by entering team details such as name, gender, estimated number of members, and selecting a team leader.		
Preconditions:	PRE-1: Users must log in to the system. PRE-2: The user account must be authorized to perform the function.		
Postconditions:	POST-1: A new team is successfully added to the system.		
Normal Flow	<p>46.0 Edit Team</p> <ol style="list-style-type: none"> 1. The user navigates to the "Danh sách ban" page via the "Ban" menu in the dashboard. 2. The user clicks the "Thêm ban" button.. 3. The system displays a popup form with the following fields.(See 46.0.E1) 4. The user enters the team and selects a gender.(See 46.0.E2) 5. Once the gender is selected, the team leader dropdown is enabled, and the user can select one or more team leaders to assign to the group. 6. The user clicks the "Lưu thay đổi" button. 7. The system displays a success message: "Tạo ban thành công". 8. The user is returned to the "Danh sách Ban" page, where the new team is displayed. 		
Alternative Flows:	N/A		
Exceptions:	<p>46.0.E1 Fill the team's name with empty values.</p> <ol style="list-style-type: none"> 1. The system displays “Vui lòng nhập tên ban”. 		

	46.0.E2 Not choose gender for team. 1. The system displays “Vui chọn giới tính”.
Priority:	High
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-113, BR-114
Other Information:	- The page must load within 3 seconds.
Assumptions:	- All volunteer group data is pre-existing and available in the system. - If the gender isn't chosen the available team leader can not be seen.

Table 52: Add Team function description

3.7.4 Edit Team

Figure 63. Edit Team screen

UC ID and Name:	UC-47_Edit Team		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	The user wants to update information about a specific team.		
Description:	This use case allows authorized users to edit team details such as name, gender, estimated number of members, and team leader.		
Preconditions:	PRE-1: Users must log in to the system. PRE-2: The user account must be authorized to perform the function. PRE-3: Teams must already exist in the system.		

Postconditions:	POST-1: The system successfully displays the list of teams with updated information.
Normal Flow	<p>47.0 Edit Team</p> <ol style="list-style-type: none"> 1. The user navigates to the "Danh sách ban" page via the "Ban" menu in the dashboard. 2. The user identifies the team they want to edit from the list and clicks the pencil icon in the "Thao Tác" column. 3. The system opens a popup form pre-filled with the current information for the selected team. 4. The user updates the necessary fields (e.g., team name, gender, or assigned team leader).(See 47.0.E1) 5. The user clicks the "Lưu thay đổi" button. 6. The system displays a success message: “Cập nhật ban thành công”. 7. The user is returned to the "Danh sách Ban" page, where the updated information is displayed.
Alternative Flows:	N/A
Exceptions:	<p>47.0.E1 Fill team's name with empty values</p> <ol style="list-style-type: none"> 1. The system displays “Vui lòng nhập tên ban”.
Priority:	High
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-113, BR-114
Other Information:	<ul style="list-style-type: none"> - The page must load within 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - All team data is pre-existing and available in the system. - Input validation is performed both on the client and server sides.

Table 53: Edit Team function description

3.7.5 Delete Team

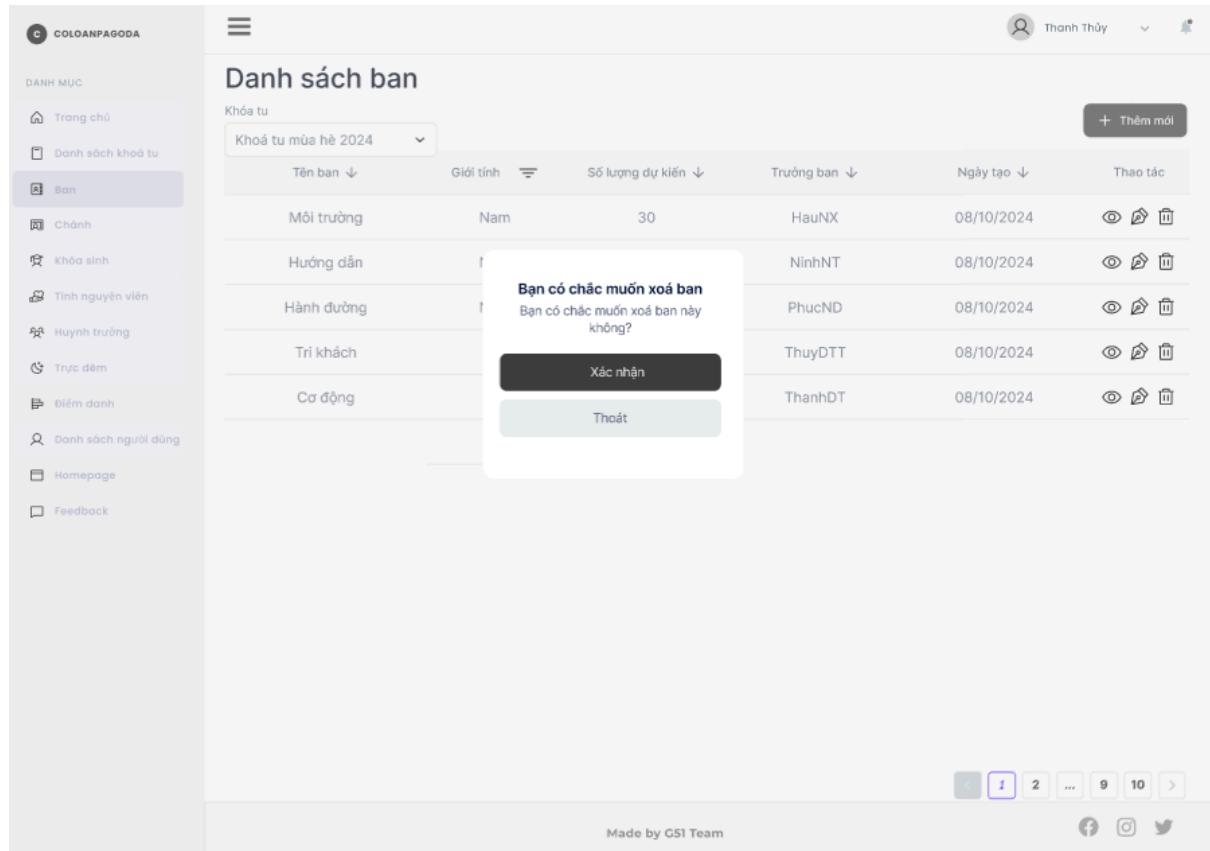


Figure 64. Delete Team screen

UC ID and Name:	UC-48 Delete Team		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	The user wants to delete a specific team.		
Description:	This use case allows authorized users to delete an existing team from the system.		
Preconditions:	PRE-1: Users must log in to the system.		

	<p>PRE-2: The user account must be authorized to perform the function.</p> <p>PRE-3: Team must already exist in the system.</p>
Postconditions:	POST-1: The selected team is removed from the system and no longer displayed in the team list.
Normal Flow	<p>48.0 Delete Team</p> <ol style="list-style-type: none"> 1. The user navigates to the "Danh sách ban" page via the "Ban" menu in the dashboard. 2. The user identifies the team to delete and clicks the "Delete" icon (trash bin) in the "Thao Tác" column. 3. The system displays a confirmation dialog with the message: "Bạn có chắc chắn muốn xóa Ban[Team Name] không?" 4. The user clicks the "Xác nhận" button. 5. The user is returned to the "Danh sách Ban" page, and the team is no longer listed.
Alternative Flows:	<p>48.1 Delete Team</p> <ol style="list-style-type: none"> 1. The user clicks the "Hủy" button in the confirmation dialog. 2. The system cancels the deletion process and closes the confirmation dialog, returning the user to the team list without making any changes.
Exceptions:	N/A
Priority:	High
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-115
Other Information:	- The page must load within 3 seconds.

Assumptions:	<p>- After the user confirms, soft delete the student group and display a success message within a second, then back to the view student group screen.</p>
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Table 54: Delete Team function description

3.7.6 Remove volunteers from team

Mã TNV	Họ và tên	Điện thoại	Ngày sinh	Giới tính	Trạng thái	Thao tác
KS001	Nguyễn Xuân Hậu	0969 583 865	13/11/2014	Nữ	Trong khoá tu	
KS001	Đặng Đình Long	0969 583 865	12/04/2010	Nữ	Chưa tới	
KS001	Đặng Hải Đăng	0969 583 865	13/11/2014	Nữ	Hoàn thành	
KS001	Lê Hải Đăng	0969 583 865	14/07/2009	Nam	Chưa tới	
KS001	Lê Văn Nguyên	0969 583 865	14/07/2009	Nam	Chưa tới	
KS001	Nguyễn Xuân Hậu	0934 567 890	12/04/2010	Nam	Trong khoá tu	
KS001	Lê Hải Đăng	0912 345 678	13/11/2014	Nữ	Bỏ dở	
KS001	Đặng Đình Long	0934 567 890	14/07/2009	Nam	Trong khoá tu	
KS001	Lê Hải Đăng	0912 345 678	14/07/2009	Nam	Bỏ dở	
KS001	Đặng Hải An	0987 654 321	12/04/2010	Nam	Hoàn thành	

Table 65 Remove volunteers from groups description

UC ID and Name:	UC-49_Remove volunteers from groups
-----------------	--

Created By:	HauNX	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	The user indicated that he wanted to remove volunteers from a team		
Description:	This use case allows authorized users to remove volunteers from a specific teams		
Preconditions:	PRE-1: Users must log in to the system. PRE-2: The user account must be authorized to perform the function. PRE-3: Team must already exist in the system.		
Postconditions:	POST-1: The detailed information about the selected team is displayed on the screen.		
Normal Flow	<p>49.0 Remove volunteers from teams</p> <ol style="list-style-type: none"> 1. The user navigates to the “Danh sách ban” page via the "Ban" menu in the dashboard. 2. The user identifies the student group they want to view and clicks the eye icon in the "Thao Tác" column. 3. The system retrieves the following detailed information and list of volunteers belonging to the group with the following column(eg: Mã tình nguyện viên, Họ và tên, Nhận xét) for each student in the list in the selected group. (see 49.1.E0) 4. The user selects the students to be removed from group 5. The user clicks “Xoá” button 		
Alternative Flows:	N/A		
Exceptions:	<p>49.1.E0 There is no volunteers in the team</p> <ol style="list-style-type: none"> 1. The system displays “Không có kết quả phù hợp”. 		
Priority:	High		

Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-115
Other Information:	<ul style="list-style-type: none"> - The page must load within 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - All required group and student data is pre-existing and stored in the system. - Pagination must be available for the volunteer list if the number of volunteers exceeds the display limit.

Table 55: Remove volunteers from team

3.8 Volunteer Management

3.8.1 Submit Volunteer Application Form

The screenshot shows a web form titled "Đăng kí làm tình nguyện viên". The form fields include:

- Chọn khóa tu: Khoa tu mùa hè 2025
- Họ và tên: Nguyễn Xuân Hậu
- Giới tính: Nam
- Ngày sinh: 13/11/2003
- Số CMND: 0352 0300 0580
- Số điện thoại: 0969 583 865
- Dịa chỉ email: nguyenvanxuyen@gmail.com
- Dịa chỉ: Cố Loan, Cố Loa, Ninh Bình
- Ánh thẻ (4x6): Chọn tệp
- CCCD mặt trước: Chọn tệp
- CCCD mặt sau: Chọn tệp
- I'm not a robot: reCAPTCHA
- Nút submit: Nộp đơn

The footer of the COLOANPAGODA website includes:

- COLOANPAGODA logo
- Copyright © 2024 Capstone_G51 All rights reserved
- Links: Trang chủ, Bài đăng, Hướng dẫn đăng ký, Phản hồi
- Tim hiểu thêm: Trang chủ, Bài đăng, Hướng dẫn đăng ký, Phản hồi
- Liên hệ: Nếu có bất kỳ thắc mắc nào, vui lòng liên hệ số điện thoại: 0969 583 865

Figure 66. Submit Volunteer Application Form

UC ID and Name:	UC-50 Submit Volunteer Application Form		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Guest	Secondary Actors:	Secretary, Manager
Trigger:	The volunteers want to submit their registration form for a course.		
Description:	This use case allows individuals to submit a registration form to volunteer for the course. The form requires personal details, contact information, and attachments, such as identification images, which are validated before submission.		
Preconditions:	PRE-1 Users access the application form through the homepage of the system.		
Postconditions:	POST-1: The registration form is successfully submitted and stored in the system.		
Normal Flow	<p>50.0 Submit Volunteer Registration Form</p> <ol style="list-style-type: none"> 1. The volunteer accesses the homepage. 2. The volunteer access the "Đăng ký tình nguyện viên" page via the "Đăng kí" on the navigation bar. 3. The system displays the registration form. 4. The students fill in personal information. 5. The students click the "Đăng kí " button.(See 50.1.E1) 		
Alternative Flows:	N/A		
Exceptions:	<p>50.1.E1 The system detects invalid or missing data</p> <ol style="list-style-type: none"> 1. The system displays the message with each field that is invalid or missing data. 		
Priority:	High		

Frequency of Use:	Medium
Business Rules:	BR-116, BR-117, BR-11, BR-72, BR-10
Other Information:	<ul style="list-style-type: none"> - The time to load the screen is less than 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - The students have all required information and documents ready for upload. - CAPTCHA verification is implemented to prevent spam submissions.

Table 56: Submit volunteer application form description

3.8.2 View volunteer registration list

Họ và tên	Điện thoại	Ngày sinh	Giới tính	Trạng thái	Ban	Người duyệt	Thao tác
Nguyễn Xuân Hậu	0969 583 865	13/11/2014	Nữ	Đã duyệt	Chưa phân	NinhNT	
Đặng Hải Đăng	0969 583 865	14/07/2009	Nam	Đang chờ	Chưa phân	PhucND	
Đặng Hải Đăng	0912 345 678	13/11/2014	Nữ	Đang chờ	Chưa phân	HauNX	
Đặng Hải Đăng	0934 567 890	14/07/2009	Nam	Đã duyệt	Chưa phân	PhucND	
Đặng Hải Đăng	0912 345 678	14/07/2009	Nam	Đã duyệt	Chưa phân	NinhNT	
Đặng Hải An	0987 654 321	12/04/2010	Nam	Tử chối	Chưa phân	HauNX	

Figure 67. View volunteer registration list screen

UC ID and Name:	UC-51_View volunteer registration list		
Created By:	ThuyDTT	Date Created:	25/Sept/2024
Primary Actor:	Secretary, Manager	Secondary Actors:	N/A
Trigger:	A secretary or manager indicated that he wanted to see the volunteer registration list.		
Description:	The actor views a list of volunteer registrations in the system, including basic information so that the actor can know the student registrations existing in the system. The actor can also search and filter for the registrations that match some specific conditions.		
Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function.		
Postconditions:	POST-1: The list of registration will be displayed.		
Normal Flow	<p>51.0 View volunteer list without any search, filter or sort</p> <ol style="list-style-type: none"> Users access this page through the “Đơn đăng ký tình nguyện viên” button under “Đơn đăng ký” in the dashboard area on the left side of the page. The page will display a list of registration. 		
Alternative Flows:	<p>51.1 View registration list with search</p> <ol style="list-style-type: none"> The actor fills in all necessary information in the search form The actor clicks “Tìm kiếm” button.(see 51.1.E1) The system displays the user list that match what the actor searched <p>51.2 View registration list with sort</p> <ol style="list-style-type: none"> The actor clicks on the column header and selects the value they want for that column. The system displays the course list that matches what the actor sorted. 		
Exceptions:	51.1.E1 There is no matching result with search		

	1. The system displays “Không có kết quả phù hợp”.
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-21, BR-24, BR-17, BR-08, BR-13.
Other Information:	The time to load the screen is less than 3 seconds.
Assumptions:	- The list is displayed in the order of volunteer team

Table 57: View the list detail of volunteer registration function description

3.8.3 View volunteer registration details

C COLOANPAGODA

DANH MỤC

- [Trang chủ](#)
- [Danh sách khoá tu](#)
- [Ban](#)
- [Chánh](#)
- [Khóa sinh](#)
- [Đơn đăng ký](#)
- [Khóa sinh](#)
- [Tỉnh nguyện viên](#)
- [Huynh trưởng](#)
- [Trực đêm](#)
- [Biểu danh](#)
- [Danh sách người dùng](#)
- [Homepage](#)
- [Feedback](#)

≡

🔍 Thanh Thủy

Thông tin chi tiết đơn đăng ký tình nguyện viên

Khóa tu

Họ và tên

Giới tính

Trạng thái

Ngày sinh

Số CMND

Địa chỉ email

Người duyệt

Địa chỉ

Ảnh CCCD mặt trước

Ảnh CCCD mặt sau

Ghép chú

[Quay lại](#)
[Tùy chỉnh](#)
[Duyệt đơn](#)

Lịch sử tham gia khoá tu

Khoa	Ngay bat dau	Ngay ket thuc	Ban	Người duyệt	Xem thông tin khoa
Khoa 1	09/07/2014	17/07/2014	Cơ động	HauNX	
Khoa 2	09/07/2014	17/07/2014	Môi trường	HauNX	
Khoa 3	09/07/2014	17/07/2014	Tri khach	HauNX	

Made by GS1 Team

Facebook
Instagram
Twitter

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Figure 68. View student registration detail screen

UC ID and Name:	UC-52_View volunteer registration details		
Created By:	ThuyDTT	Date Created:	25/Sept/2024
Primary Actor:	Secretary, Manager	Secondary Actors:	N/A
Trigger:	A secretary or manager indicated that he wanted to see the volunteer registration details.		
Description:	To determine whether a volunteer is qualified for a course, the secretary or manager can view the registration details and information submitted by the volunteer.		
Preconditions:	PRE-1 User must login to the system. PRE-2 The user account has been authorized to perform the function.		
Postconditions:	POST-1. The detail of volunteer registration will be displayed		
Normal Flow	52.0 View volunteer registration details <ol style="list-style-type: none"> Users access this page through the “Đơn đăng ký” button under "Đơn đăng ký" in the dashboard area on the left side of the page. Users click on the eye icon in the “Hành động” column of any registration in the list of registration. The page will display the details of the registration. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	High		

Business Rules:	BR-05, BR-14, BR-21, BR-24, BR-08, BR-13.
Other Information:	- The time to load the screen is less than 3 seconds.
Assumptions:	- The list is displayed in the order of student group

Table 58: View the list detail of volunteer registration function description

3.8.4 Accept/Reject volunteer registration

The screenshot shows a user interface for managing volunteer registrations. On the left is a sidebar with navigation links like 'Trang chủ', 'Danh sách khóa tu', 'Ban', 'Chánh', 'Khóa sinh', 'Đơn đăng ký' (selected), 'Khóa sinh', 'Tỉnh nguyên viên', 'Huynh trưởng', 'Trực dệm', 'Biểu danh', 'Danh sách người dùng', 'Homepage', and 'Feedback'. The main area displays a form for a specific application. The application details include:

- Khóa tu:** Khóa tu mùa hè 2025
- Họ và tên:** Nguyễn
- Giới tính:** Nam
- Ngày sinh:** 13/11/2003
- Số CMND:** 0352 0300 0580
- Địa chỉ email:** nguyenvanxuyen@gmail.com
- Người duyệt:** NinhNT
- Địa chỉ:** Cố Loan, Cố Loa, Ninh Bình

A modal window titled 'Cập nhật trạng thái đơn' is open, showing the message: 'Bạn đã duyệt đơn đăng ký thành công' (You have successfully approved the registration application). The status is currently set to 'Chưa duyệt' (Not approved) and has a 'X' button to close the modal.

Below the application form, there's a section titled 'Lịch sử tham gia khóa tu' (History of participation in courses) with a table:

Khoa	Ngày bắt đầu	Ngày kết thúc	Ban	Người duyệt	Xem thông tin khoa
Khoa 1	09/07/2014	17/07/2014	Cơ động	HauNX	
Khoa 2	09/07/2014	17/07/2014	Môi trường	HauNX	
Khoa 3	09/07/2014	17/07/2014	Tri khách	HauNX	

At the bottom of the page, there are social media sharing icons for Facebook, Instagram, and Twitter, and the text 'Made by GS1 Team'.

Figure 69. Accept or reject volunteer registration detail screen

UC ID and Name:	UC-53_Accept/Reject volunteer registrations		
Created By:	HauNX	Date Created:	25/Sept/2024
Primary Actor:	Secretary, Manager	Secondary Actor	N/A
Trigger:	Secretary or Manager decides to accept or reject a registration		
Description:	This use case allows the Manager or Secretary to accept or reject volunteer registration		
Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function. PRE-3 The registration must exist in the system.		
Postconditions:	POST-1 The volunteer registration status is updated in the system		
Normal Flow	53.0 Accept/Reject volunteer registrations <ol style="list-style-type: none"> 1. The user navigates to the navigation bar and clicks on "Đơn đăng ký" 2. User clicks on “Đơn đăng ký” 3. The system displays the list of volunteer registration applications. 4. Users click on the eye icon in the “Hành động” column of any registration in the list of registration. 5. The user clicks on “Duyệt đơn” or “Tù chối” to accept or reject a registration. 6. The system will once again confirm whether you want to approve the volunteer's application or not. 7. If users click on “Xác nhận” the system updates the course status of the registration. (see 53.0.E1) 		
Alternative Flows:	N/A		
Exceptions:	53.0.E1. Accept/Reject volunteer registrations when the course has started <ol style="list-style-type: none"> 1. The system displays “Duyệt đơn thất bại”. 		

Priority:	Normal
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-21, BR-24, BR-22, BR-07, BR-08.
Other Information:	<ul style="list-style-type: none"> - The system must respond and display the popup within 2 seconds.
Assumptions:	<ul style="list-style-type: none"> - When the application is rejected, the “Tù chối” button is disabled. When the application is accepted, the “Duyệt đơn” button is disabled. - After the user confirms, the data is updated in the database and displays a success message within a second, then back to the view of volunteer detail registration.

Table 59: Accept/Reject registration function description

3.8.5 View volunteer list

Figure 70. View volunteer list screen

UC ID and Name:	UC-54 _View volunteer list		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Secretary, Manager	Secondary Actor	N/A
Trigger:	A secretary, manager indicated that he wanted to see the volunteer list.		
Description:	The actor views a list of volunteers in the system, including basic information so that the actor can know the volunteers existing in the system. The actor can also search and filter for the volunteers that match some specific conditions.		

Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function.
Postconditions:	POST-1: The volunteer list is successfully displayed.
Normal Flow	<p>54.0 View volunteer list without any search or sort</p> <ol style="list-style-type: none"> 1. Users access the “Tình nguyện viên” page through the “Tình nguyện viên” in the dashboard area on the left side of the page. 2. The page will display a list of volunteers.
Alternative Flows:	<p>54.0 View volunteer list with search</p> <ol style="list-style-type: none"> 1. The user fills in all necessary information in the search form 2. The user clicks “Tìm kiếm” button. 3. The system displays the user list that matches what the actor searched (see 54.1.E1). <p>54.1 View volunteer list with sort</p> <ol style="list-style-type: none"> 1. The user clicks on the column header and selects the value they want for that column. 3. The system displays the course list that matches what the actor sorted.
Exceptions:	<p>54.0.E1 There is no matching result with search</p> <ol style="list-style-type: none"> 1. The system displays “Không có kết quả phù hợp”
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-21, BR-24, BR-17, BR-07, BR-08, BR-13.
Other Information:	The time to load the screen is less than 3 seconds.
Assumptions	The system has an up-to-date list of volunteers for each course that is accessible by the actor.

Table 60: View the list volunteer in a course function description

3.8.6 View volunteer details

The screenshot shows a web application interface for viewing volunteer details. On the left is a sidebar with navigation links: Trang chủ, Danh sách khoẻ tú, Ban, Chánh, Khôa sinh, Tình nguyện viên, Huynh trưởng, Trực dêm, Điểm danh, Danh sách người dùng, Homepage, and Feedback. The main content area has a header 'Thông tin tình nguyện viên' and a sub-header 'Thông tin chung'. It displays personal information: Họ và tên (Nguyễn), Giới tính (Nam), Ngày sinh (13/11/2003), Số CMND (0352 0300 0580), Địa chỉ email (nguyenvanxuyen@gmail.com), and Địa chỉ (Cố Loan, Cố Loa, Ninh Bình). Below this are two placeholder images for 'Ảnh CCCD mặt trước' and 'Ảnh CCCD mặt sau'. A large empty text area labeled 'Ghi chú' is present, with a 'Sửa' button to its right. Another section titled 'Thông tin chi tiết' follows, containing fields for Khóa tu (Khóa tu mùa hè 2025), Mã TNV (Nguyễn), Trạng thái (Trong khoẻ tú), Người duyệt (NinhNT), and Ban (Trí), each with a dropdown arrow. A second 'Ghi chú' text area and a 'Sửa' button are also here. At the bottom right are social media icons for Facebook, Instagram, and Twitter. The footer says 'Made by GS1 Team'.

Figure 71. View General Information of a volunteer screen

UC ID and Name:	UC-55_View volunteer details		
Created By:	PhucND	Date Created:	25/09/2024
Primary Actor:	Secretary, Manager	Secondary Actors:	N/A
Trigger:	The users indicated that he wanted to see general details of a volunteer.		
Description:	This use case allows users to view general details of a volunteer, including personal details, contact information, and uploaded images.		

Preconditions:	PRE-1 The user must login to the system. PRE-2 The user account has been authorized to perform the function.
Postconditions:	POST-1 The general information of the volunteer is displayed on the screen.
Normal Flow	<p>55.0 View volunteer details</p> <ol style="list-style-type: none"> 1. Users access this page through the “Tình nguyện viên” in the dashboard area on the left side of the page. 2. Users click on the eye icon in the “Hành động” column of any volunteer in the list of volunteers. 3. The system displays the information of the volunteer .
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-21, BR-08, BR-13, BR-17.
Other Information:	The time to load the screen is less than 3 seconds.
Assumptions	<ul style="list-style-type: none"> - The system has accurate and up-to-date volunteer data stored. Uploaded images are displayed in the correct format.

Table 61: View General Information of a Student function description

3.8.7 Edit volunteer information

DANH MỤC

- Trang chủ
- Danh sách khóa tu
- Ban
- Chánh
- Khóa sinh
- Tình nguyện viên
- Huynh trưởng
- Trực đêm
- Điểm danh
- Danh sách người dùng
- Homepage
- Feedback

Thông tin tình nguyện viên

Thông tin chung

Họ và tên	Giới tính	Ngày sinh	Số CMND
Nguyễn	Nam	13/11/2003	0352 0300 0580
Dịa chỉ email	Dịa chỉ	Cô Loan, Cố Loa, Ninh Bình	

Ảnh CCCD mặt trước

Ảnh CCCD mặt sau

Ghi chú

Thông tin chi tiết

Khóa tu	Mã TNV	Trạng thái	Người duyệt	Ban
Khóa tu mùa hè 2025	Nguyễn	Trong khóa tu	NinhNT	Trí

Ghi chú

Hủy Lưu Sửa

Made by G51 Team

Figure 72. Edit volunteer information screen

UC ID and Name:	UC-56_Edit volunteer information		
Created By:	HauNX	Date Created:	25/09/2024
Primary Actor:	Secretary, Manager	Secondary Actor	Staff, Team Leader, Supervisor
Trigger:	Secretary or Manager decides to edit volunteer in a course		
Description:	This use case allows user to update the information of a volunteer so that the user can edit when the volunteer's information changes		

Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function. PRE-3 The volunteer must exist in the system.
Postconditions:	POST-1 The volunteer is updated in the system
Normal Flow	<p>56.0 Edit volunteer in a course</p> <ol style="list-style-type: none"> 1. The user accesses to volunteer list in a course 2. The user views volunteer details in a course 3. The user clicks on “Sửa” button in the “Thông tin chung” section 4. The system displays to edit the volunteer 5. The user fills in all the input they want to edit and clicks “Lưu (see 56.0.E1) 6. The system updates the volunteer
Alternative Flows:	N/A
Exceptions:	<p>56.0.E1 The information is invalid</p> <ol style="list-style-type: none"> 1. If the entered information is invalid or incomplete, the system should display an alert message and prompt the volunteer to retry.
Priority:	Normal
Frequency of Use:	Low
Business Rules:	BR-05, BR-14, BR-21, BR-24, BR-17, BR-10, BR-11.
Other Information:	The system must respond and display the edit page within 2 seconds.
Assumptions:	- After the user saves the information must be updated into the database and display a success message within a second, then back to the view student details screen.

Table 62: Edit volunteer in a course function description

3.8.8 Edit volunteer in a course

DANH MỤC

- Trang chủ
- Danh sách khóa tu
- Ban
- Chánh
- Khóa sinh
- Tỉnh nguyên viên
- Huynh trưởng
- Trực đêm
- Điểm danh
- Danh sách người dùng
- Homepage
- Feedback

Thông tin tình nguyện viên

Thông tin chung

Họ và tên Nguyễn	Giới tính Nam	Ngày sinh 13/11/2003	Số CMND 0352 0300 0580
Địa chỉ email nguyenvanxuyen@gmail.com	Địa chỉ Cố Loan, Cố Loa, Ninh Bình		

Ảnh CCCD mặt trước

Ảnh CCCD mặt sau

Ghi chú

Thông tin chi tiết

Khóa tu Khóa tu mùa hè 2025	Mã TNV Nguyễn	Trạng thái Trong khóa tu	Người duyệt NinhNT	Ban Trí
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Ghi chú

Lưu **Hủy**

Made by GS1 Team

Figure 73. Edit volunteer in a course screen

UC ID and Name:	UC-57_Edit volunteer in a course		
Created By:	HauNX	Date Created:	25/09/2024
Primary Actor:	Secretary, Manager	Secondary Actor	Staff, Team Leader, Supervisor
Trigger:	Secretary or Manager decides to edit volunteer information in a course		

Description:	This use case allows user to update the information of a volunteer so that the user can edit when the volunteer's information in a course like team, status, ... changes
Preconditions:	PRE-1 User must login to the system. PRE-2 The user account has been authorized to perform the function. PRE-3 The volunteer must exist in the system.
Postconditions:	POST-1 The volunteer is updated in the system
Normal Flow	<p>57.0 Edit volunteer in a course</p> <ol style="list-style-type: none"> 1. The user accesses to volunteer list in a course 2. The user views volunteer details in a course 3. The user clicks on “Sửa” button in the “Thông tin chi tiết” section 4. The system displays to edit the volunteer 5. The user fills in all the input they want to edit and clicks “Lưu (see 57.0.E1) 6. The system updates the volunteer
Alternative Flows:	N/A
Exceptions:	<p>57.0.E1 The information is invalid</p> <ol style="list-style-type: none"> 1. If the entered information is invalid or incomplete, the system should display an alert message and prompt the volunteer to retry.
Priority:	Normal
Frequency of Use:	Low
Business Rules:	BR-05, BR-14, BR-21, BR-24, BR-17, BR-10, BR-11.
Other Information:	The system must respond and display the edit page within 2 seconds.

Assumptions:	- After the user saves the information must be updated into the database and display a success message within a second, then back to the view student details screen.
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Table 63: Edit volunteer in a course function description

3.8.9. Automatically assign volunteers to team

Figure 74. Automatically assign volunteers to team screen

UC ID and Name:	UC-58_Automatically assign volunteers to team.		
Created By:	ThuyDTT	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A

Trigger:	A manager indicated that he wanted automatically to assign volunteers for a team.
Description:	This use case allows the manager or secretary to automatically assign the volunteers to the team.
Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function.
Postconditions:	POST-1: Volunteers will be assigned to the following team.
Normal Flow	<p>58.0 Automatically assign volunteers to a team.</p> <ol style="list-style-type: none"> 1. Users access this page through the “Đơn đăng ký tình nguyện viên” button under “Đơn đăng ký” in the dashboard area on the left side of the page. 2. Users select the “Phân ban” button. 3. The system will once again confirm whether managers want to assign the volunteers to the team or not. 4. If the manager or secretary clicks on the “Xác nhận” button the system updates the volunteers assignment status for each team.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-21, BR-24, BR-22, BR-07, BR-08.
Other Information:	The popup screen is display within 2 seconds

Assumptions:	- After the user confirms, the data is updated in the database and displays a success message within a second, then back to the view volunteer registration list.
--------------	---

Table 64: Auto assign volunteers for team function description

3.8.10. Manually assign volunteers to team

Mã TNV	Họ và tên	Điện thoại	Ngày sinh	Giới tính	Ban	Thao tác
KS001	Nguyễn Xuân Hậu	0969 583 865	13/11/2014	Nữ	Cơ động	<input checked="" type="checkbox"/>
KS001	Đậu Đình Long	0969 583 865	12/04/2010	Nữ	Hành dường	
KS001	Đậu Đình Long	0969 583 865	13/11/2014	Nữ	Hướng dẫn	
KS001	Lê Hải Đăng	0969 583 865	14/07/2009	Nam	Tri khách	
KS001	Lê Văn Nguyên	0969 583 865	14/07/2009	Nam	Môi trường	
KS001	Nguyễn Xuân Hậu	0934 567 890	12/04/2010	Nam	Tri khách	
KS001	Lê Hải Đăng	0912 345 678	13/11/2014	Nữ	Hành Đường	
KS001	Đậu Đình Long	0934 567 890	14/07/2009	Nam	Hướng dẫn	
KS001	Lê Hải Đăng	0912 345 678	14/07/2009	Nam	Tri khách	
KS001	Đặng Hải An	0987 654 321	12/04/2010	Nam	Môi trường	

Figure 75. Manually assign volunteers for team screen

UC ID and Name:	UC-59_Assign volunteers to team		
Created By:	ThuyDTT	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	N/A

Trigger:	A manager or secretary indicated that he wanted to manually assign volunteers for the team.
Description:	This use case allows managers or secretaries to manually assign the volunteers to the team.
Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function.
Postconditions:	POST-1: Volunteers will be assigned to the following team.
Normal Flow	<p>59.0 Assign volunteers to team</p> <ol style="list-style-type: none"> 1. Users access this page through the “Đơn đăng ký” button under “Đơn đăng ký” in the dashboard area on the left side of the page. 2. Users select a team which responds to each student in the “Ban” column.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-21, BR-24, BR-23, BR-22.
Other Information:	The popup screen is display within 2 seconds
Assumptions:	- After the user confirms, the data is updated in the database and displays a success message within a second, then back to the view student registration list.

Table 65: Assign volunteer for team function description

3.8.11. Automatically assign forms to secretaries

Figure 76. Automatically assign forms to secretaries screen

UC ID and Name:	UC-60_Automatically assign forms to secretaries		
Created By:	ThuyDTT	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Secretary
Trigger:	A manager indicated that he wanted to assign volunteer registration for secretaries.		

Description:	This use case allows the manager to automatically assign the registration list to secretaries so that the secretaries can reject or accept the registrations.
Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function.
Postconditions:	POST-1: Secretaries will be assigned to manage registrations.
Normal Flow	<p>60.0 Automatically assign forms to secretaries</p> <ol style="list-style-type: none"> 1. Users access this page through the “Đơn đăng ký tình nguyện viên” button under “Đơn đăng ký” in the dashboard area on the left side of the page. 2. Users select the “Chia thư kí” button. 3. The system will once again confirm whether managers want to assign the secretaries or not. 4. If the manager clicks on the “Xác nhận” button the system updates the secretaries assignment status for each registration.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-21, BR-23, BR-25, BR-22.
Other Information:	The popup screen is display within 2 seconds
Assumptions:	<ul style="list-style-type: none"> - After the user confirms, the data is updated in the database and displays a success message within a second, then back to the view student registration list.

Table 66: Auto assign volunteer registration for secretaries function description

3.8.12 Generate volunteer card

Mã TNV	Tên	Số điện thoại	Giới tính	Trạng thái			
Khoa tu mùa hè 2024			Tất cả	Tất cả			
Ngày sinh từ	đến	Ban	Tất cả				
DD / MM / YYYY	DD / MM / YYYY		Tim kiếm				
<input type="button" value="Gửi email"/> <input type="button" value="Xuất thẻ"/> <input type="button" value="Xuất"/>							
Mã TNV	Họ và tên	Điện thoại	Ngày sinh	Giới tính	Trạng thái	Ban	Thao tác
<input checked="" type="checkbox"/> KS001	Nguyễn Xuân	Tự động xuất thẻ		Nữ	Trong khoá tu	Cơ động	
<input checked="" type="checkbox"/> KS001	Đặng Đình L	Bạn có chắc muốn tạo thẻ cho những tình nguyện viên đã chọn?		Nữ	Chưa tới	Cơ động	
<input type="checkbox"/> KS001	Đặng Đình L	Xác nhận		Nữ	Hoàn thành	Hành Đường	
<input type="checkbox"/> KS001	Lê Hải Đ	Thoát		Nam	Chưa tới	Môi trường	
<input type="checkbox"/> KS001	Lê Văn Ngu			Nam	Chưa tới	Tri khách	
<input type="checkbox"/> KS001	Nguyễn Xuân Hậu	0934 567 890	12/04/2010	Nam	Trong khoá tu	Hành Đường	
<input type="checkbox"/> KS001	Lê Hải Đăng	0912 345 678	13/11/2014	Nữ	Bỏ dở	Hành Đường	
<input type="checkbox"/> KS001	Đặng Đình Long	0934 567 890	14/07/2009	Nam	Trong khoá tu	Hướng dẫn	
<input type="checkbox"/> KS001	Lê Hải Đăng	0912 345 678	14/07/2009	Nam	Bỏ dở	Tri khách	
<input type="checkbox"/> KS001	Đặng Hải An	0987 654 321	12/04/2010	Nam	Hoàn thành	Tri khách	

Made by GS1 Team

Figure 77:Generate volunteer cards.

UC ID and Name:	UC-61_Generate volunteer cards		
Created By:	HauNX	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	A manager or secretary indicated that he wanted to generate volunteer cards.		
Description:	This use case allows managers or secretaries to generate the volunteer cards.		
Preconditions:	PRE-1 Users must login to the system.		

	PRE-2 The user account has been authorized to perform the function. PRE-3 The volunteers are divided into teams.
Postconditions:	POST-1: Volunteer cards are successfully exported.
Normal Flow	<p>61.0 Generate volunteer cards.</p> <ol style="list-style-type: none"> 1. Users access this page through the “Tình nguyện viên” in the dashboard area on the left side of the page. 2. Users choose volunteers that want to generate card. 3. Users click on the “In thẻ” button.(see 61.0.E1)
Alternative Flows:	N/A
Exceptions:	<p>61.0.E1 None of the volunteer was selected</p> <ol style="list-style-type: none"> 1. The system displays “Chưa có tình nguyện viên nào được chọn”.
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-21, BR-23, BR-24, BR-22.
Other Information:	The popup screen is display within 2 seconds
Assumptions:	<ul style="list-style-type: none"> - The system has access to the most current and accurate data for volunteers, organized appropriately for generating cards.

Table 67 : Generate volunteer cards

3.8.13 Generate volunteer certificates

The screenshot shows the COLOANPAGODA application's volunteer management module. On the left is a sidebar with navigation links like Trang chủ, Danh sách khóa tu, Ban, Chánh, Khoa sinh, Tinh nguyện viên, Huynh trưởng, Trực dem, Điểm danh, Danh sách người dùng, Homepage, and Feedback. The main area is titled 'Danh sách tình nguyện viên' and lists volunteers with their details. A modal window is overlaid, asking if the user wants to generate certificates for selected volunteers, with 'Xác nhận' and 'Thoát' buttons.

Figure 78: Generate volunteer certificates.

UC ID and Name:	UC-62 <i>Generate volunteer certificates</i>		
Created By:	HauNX	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	A manager or secretary indicated that he wanted to generate volunteer certificates.		
Description:	This use case allows managers or secretaries to generate the volunteer certificates.		
Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function.		

	PRE-3 The volunteers are divided into teams.
Postconditions:	POST-1: Volunteer cards are successfully exported.
Normal Flow	<p>62.0 Generate volunteer certificates.</p> <ol style="list-style-type: none"> 1. Users access this page through the “Tình nguyện viên” in the dashboard area on the left side of the page. 2. Users choose volunteers that want to generate certificates. 3. Users select the “In chứng nhận” button.(see 62.0.E1)
Alternative Flows:	N/A
Exceptions:	<p>62.0.E1 None of the volunteer was selected</p> <ol style="list-style-type: none"> 1. The system displays “Chưa có tình nguyện viên nào được chọn”.
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-21, BR-23, BR-24, BR-22.
Other Information:	The popup screen is display within 2 seconds
Assumptions:	<ul style="list-style-type: none"> - The system has access to the most current and accurate data for volunteers, organized appropriately for generating certificates.

Table 68: Generate volunteer certificates

3.8.14 Export volunteer list

Danh sách tình nguyện viên

Mã TNV	Tên	Số điện thoại	Giới tính	Trạng thái																																																																																								
Khoa tu mùa hè 2024			Tất cả	Tất cả																																																																																								
Ngày sinh từ	đến	Ban	Tất cả																																																																																									
DD / MM / YYYY	DD / MM / YYYY		Tim kiếm																																																																																									
<input type="button" value="Gửi email"/> <input type="button" value="Xuất thẻ"/> <input type="button" value="Xuất"/>																																																																																												
<table border="1"> <thead> <tr> <th>Mã TNV</th> <th>Họ và tên</th> <th>Điện thoại</th> <th>Ngày sinh</th> <th>Giới tính</th> <th>Trạng thái</th> <th>Ban</th> <th>Thao tác</th> </tr> </thead> <tbody> <tr> <td>KS001</td> <td>Nguyễn Xuân</td> <td>Xuất excel</td> <td colspan="5">Bạn có chắc muốn xuất ra excel thông tin của các tình nguyện viên?</td> </tr> <tr> <td>KS001</td> <td>Đậu Đinh L</td> <td>Xác nhận</td> <td colspan="5"></td> </tr> <tr> <td>KS001</td> <td>Đậu Đinh L</td> <td>Thoát</td> <td colspan="5"></td> </tr> <tr> <td>KS001</td> <td>Lê Hải Đăng</td> <td></td> <td colspan="5"></td> </tr> <tr> <td>KS001</td> <td>Lê Văn Ngu</td> <td></td> <td colspan="5"></td> </tr> <tr> <td>KS001</td> <td>Nguyễn Xuân Hậu</td> <td>0934 567 890</td> <td>12/04/2010</td> <td>Nam</td> <td>Trong khoá tu</td> <td>✓</td> <td>Cơ động</td> </tr> <tr> <td>KS001</td> <td>Lê Hải Đăng</td> <td>0912 345 678</td> <td>13/11/2014</td> <td>Nữ</td> <td>Bỏ dở</td> <td>✓</td> <td>Hành Đường</td> </tr> <tr> <td>KS001</td> <td>Đậu Đinh Long</td> <td>0934 567 890</td> <td>14/07/2009</td> <td>Nam</td> <td>Trong khoá tu</td> <td>✓</td> <td>Hướng dẫn</td> </tr> <tr> <td>KS001</td> <td>Lê Hải Đăng</td> <td>0912 345 678</td> <td>14/07/2009</td> <td>Nam</td> <td>Bỏ dở</td> <td>✓</td> <td>Tri khách</td> </tr> <tr> <td>KS001</td> <td>Đặng Hải An</td> <td>0987 654 321</td> <td>12/04/2010</td> <td>Nam</td> <td>Hoàn thành</td> <td>✓</td> <td>Tri khách</td> </tr> </tbody> </table>					Mã TNV	Họ và tên	Điện thoại	Ngày sinh	Giới tính	Trạng thái	Ban	Thao tác	KS001	Nguyễn Xuân	Xuất excel	Bạn có chắc muốn xuất ra excel thông tin của các tình nguyện viên?					KS001	Đậu Đinh L	Xác nhận						KS001	Đậu Đinh L	Thoát						KS001	Lê Hải Đăng							KS001	Lê Văn Ngu							KS001	Nguyễn Xuân Hậu	0934 567 890	12/04/2010	Nam	Trong khoá tu	✓	Cơ động	KS001	Lê Hải Đăng	0912 345 678	13/11/2014	Nữ	Bỏ dở	✓	Hành Đường	KS001	Đậu Đinh Long	0934 567 890	14/07/2009	Nam	Trong khoá tu	✓	Hướng dẫn	KS001	Lê Hải Đăng	0912 345 678	14/07/2009	Nam	Bỏ dở	✓	Tri khách	KS001	Đặng Hải An	0987 654 321	12/04/2010	Nam	Hoàn thành	✓	Tri khách
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<input type="button" value=""/> <input type="button" value="1"/> <input type="button" value="2"/> ... <input type="button" value="9"/> <input type="button" value="10"/> <input type="button" value=""/>																																																																																												

Made by G51 Team

Figure 79:Export volunteer list to excel.

UC ID and Name:	UC-63_Export volunteer list to excel		
Created By:	HauNX	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	N/A
Trigger:	A manager or secretary indicated that he wanted to export the volunteer list to Excel.		
Description:	This use case allows managers or secretaries to export the volunteer list to Excel.		
Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function.		

	PRE-3 The volunteers are divided into teams.
Postconditions:	POST-1: Volunteer lists are successfully exported.
Normal Flow	<p>63.0 Export volunteer list to Excel.</p> <ol style="list-style-type: none"> 1. Users access this page through the “Tình nguyện viên” in the dashboard area on the left side of the page. 2. Users select the “Xuất” button.(see 63.0.EX1)
Alternative Flows:	<p>63.1 Export volunteer in a team to Excel.</p> <ol style="list-style-type: none"> 1. Users access this page through the “Ban” in the dashboard area on the left side of the page. 2. Users click on one team in the list. 2. Users select the “Xuất” button.(see 63.1.E1)
Exceptions:	<p>63.0.E1 Unable to download sample file</p> <ol style="list-style-type: none"> 1. The system displays “Không thể tải file mẫu”.
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-05, BR-14, BR-21, BR-23, BR-24, BR-22.
Other Information:	The popup screen is display within 2 seconds
Assumptions:	AS-1: The system has access to the most current and accurate data for students and volunteers, organized appropriately for export.

Table 69: Export volunteers to excel function description

3.9 Night Shift Management

3.9.1 Register for freetime

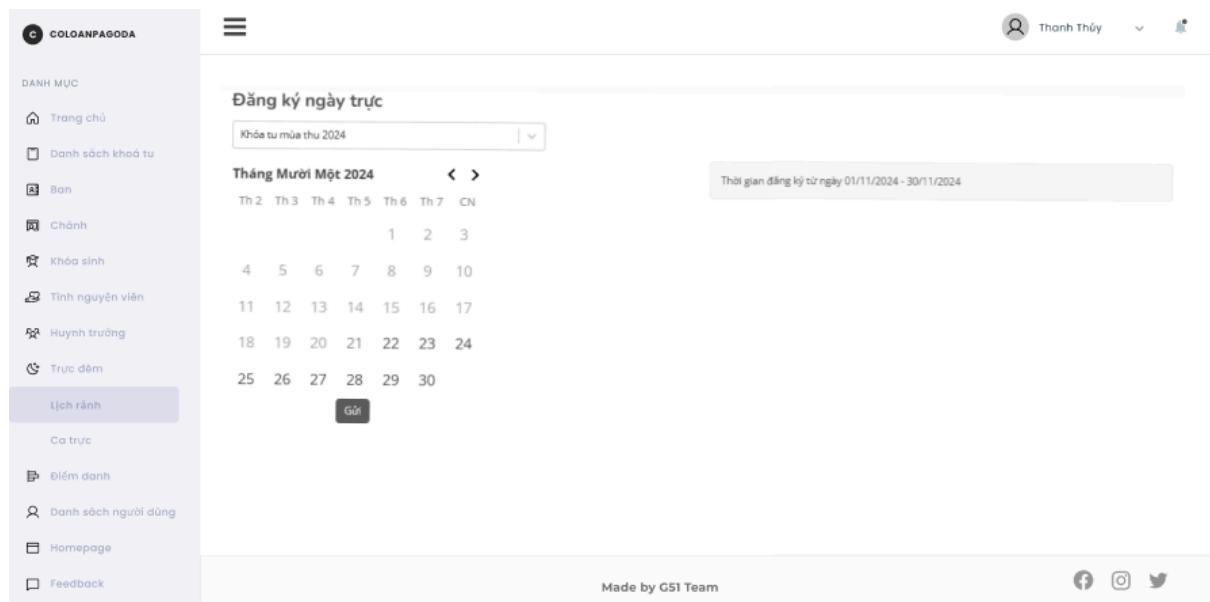


Figure 80. Register for freetime screen

UC ID and Name:	UC-64_Register for freetime		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Staff	Secondary Actors:	Manager,Secretary
Trigger:	This use case allows user to register for night shifts based on the schedule configured by the manager.		
Description:	This use case allows users to register for night shifts based on the schedule configured by the manager.		
Preconditions:	PRE-1 The user must log in to the system. PRE-2 The user account must be authorized to perform the function. PRE-3 The manager has already configured the night shift schedule for the retreat.		
Postconditions:	POST-1: The selected dates for the night shift are successfully registered.		

	POST-2: The system updates the registration list with the staff's selected dates.
Normal Flow	<p>64.0 Register for Night Shift.</p> <ol style="list-style-type: none"> 1. The user accesses the "Đăng ký ngày trực" page via the left-hand menu under the "Trực đêm" section. 2. The system displays the current active courses in a dropdown list. 3. The user selects the desired courses. 4. The calendar displays the available dates within the registration period. 5. The staff member clicks on their preferred dates to register. 6. The staff member clicks the "Cập nhật" button to confirm their registration. 7. The system saves the selected dates and displays a success message.
Alternative Flows:	N/A
Exceptions:	<p>64.0.E1: Unable to register due to the closed registration period.</p> <ul style="list-style-type: none"> - The system displays a message: "Đã hết thời gian đăng ký trực cho khóa này".
Priority:	High
Frequency of Use:	High
Business Rules:	BR-95, BR-99, BR-100
Other Information:	<ul style="list-style-type: none"> - Screen loading time: less than 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - The open registration period is valid and configured. - The calendar displays only dates within the open registration period.

Table 70: Register for Night Shift function description

3.9.2 View Night Shift Freetime

Figure 81. View Night Shift Freetime screen

UC ID and Name:	UC-65_View Night Shift Freetime		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Secretary
Trigger:	The manager wants to view the registration numbers for night shifts.		
Description:	<p>This use case allows the manager to view the number of staff registered for night shifts during the course. The manager can:</p> <ul style="list-style-type: none"> - View the total number of registrations per day in the course. - View the breakdown of male and female registrations per day. - Filter the data based on criteria such as staff name, date range, or course. 		

Preconditions:	<p>PRE-1 The user must log in to the system.</p> <p>PRE-2 The night shift registration process has been completed by staff.</p> <p>PRE-3 The course is currently active or has been completed.</p>
Postconditions:	POST-1: The list is displayed based on the selected criteria.
Normal Flow	<p>65.0 View Night Shift Registration Numbers without search or filter</p> <ol style="list-style-type: none"> 1. The user accesses the "Danh sách đăng ký" page via the left-hand menu under the "Trực đêm" section. (See 65.1) 2. The system displays a table with the list of staff and their registration status for each day in the course. 3. The system shows the total registration numbers broken down by gender (male/female) at the bottom of the table.
Alternative Flows:	<p>65.1 View Night Shift Registration Numbers with search or filter</p> <ol style="list-style-type: none"> 1. The user can use the search bar and filters (e.g., by name, date range...) to refine the data. (See 65.0.E1) 2. The manager reviews the displayed data.
Exceptions:	<p>65.0.E1: No data available for the selected criteria.</p> <ul style="list-style-type: none"> - The system displays a message: "Không có dữ liệu để hiển thị".
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-95, BR-106
Other Information:	<ul style="list-style-type: none"> - Screen loading time: less than 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - The filtering options are functional and properly configured.

Table 71: Submit daily report function description

3.9.3 View NightShift List

Figure 82. View Night Shift List screen

UC ID and Name:	UC-66_View NightShift List		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	Staff
Trigger:	The user wants to view the night shift list.		
Description:	This use case allows users to view the night shift list .		
Preconditions:	PRE-1 The user must log in to the system. PRE-2 The staff member has an assigned night shift..		
Postconditions:	POST-1: The system displays the night shift list.		
Normal Flow	66.0 View night shift list 1. The user accesses the "Danh sách ca trực" page via the left-hand menu under the "Trực đêm" section.		

	2. The system displays the list of night shifts.
Alternative Flows:	<p>66.0 View night shift list with filter</p> <p>1. The user filters the nightshift by course and date.</p> <p>2. The system displays the list of night shifts by course and date.</p>
Exceptions:	N/A
Priority:	Medium
Frequency of Use:	Low
Business Rules:	N/A
Other Information:	<ul style="list-style-type: none"> - Screen loading time: less than 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - The list display in table form.

Table 72: View night shift description

3.9.4 Auto assign night shift

Ca trực	Phòng 1	Phòng 2	Phòng 3	Phòng 4
Ca 1	PhucND ManhDD Thêm Chi tiết		PhucND ManhDD Thêm Chi tiết	ThuyDTT ThanhDT Thêm Chi tiết
Ca 2	HauNX HauNB Thêm Chi tiết	NinhNT Thêm Chi tiết	NinhNT PhucND Thêm Chi tiết	ThuyDTT ThanhDT Thêm Chi tiết
Ca 3	NinhNT ManhDD Thêm Chi tiết	Mạnh DD Thêm Chi tiết	HauNX NinhNT Thêm Chi tiết	ThuyDTT ThanhDT Thêm Chi tiết

Figure 83. Auto assign night shift screen

UC ID and Name:	UC-67_Auto assign night shift		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager,Secretary	Secondary Actors:	Staff
Trigger:	The user wants to assign a night shift automatically.		
Description:	This use case allows the user to assign a night shift automatically.		
Preconditions:	PRE-1 The user must log in to the system PRE-2 The user is authorized to perform this function.		
Postconditions:	POST-1: The user successfully assign the nightshift		
Normal Flow	<p>67.0 Request to Decline a Night Shift</p> <ol style="list-style-type: none"> 1.The user accesses the “Danh sách ca trực” page via the left-hand menu under the “Trực đêm” section. 2.The system displays a night shift table list. 3. The user clicks the “Chia nhân viên” button to auto assign night shift for staff. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	Low		
Business Rules:	BR-95, BR-101, BR-102, BR-103, BR-109		
Other Information:	<ul style="list-style-type: none"> - Screen loading time: less than 3 seconds. 		
Assumptions:	<ul style="list-style-type: none"> - The data is display by table format 		

Table 73: Auto assign night shift description

3.9.5 Manually assign night shift

Figure 84. Manually assign night shift screen

UC ID and Name:	UC-68_Manually assign night shift		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager,Secretary	Secondary Actors:	Staff
Trigger:	The user wants to assign a night shift manually.		
Description:	This use case allows the user to assign a night shift manually.		
Preconditions:	PRE-1 The user must log in to the system PRE-2 The user is authorized to perform this function.		
Postconditions:	POST-1: The user successfully assign the nightshift		
Normal Flow	68.0 Manually assign night shift <ol style="list-style-type: none"> The user accesses the “Danh sách ca trực” page via the left-hand menu under the “Trực đêm” section. The system displays a night shift table list. 		

	3. The user clicks the “Chia nhân viên” button to auto assign night shift for staff.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	Medium
Frequency of Use:	Low
Business Rules:	BR-95, BR-101, BR-102, BR-103, BR-109
Other Information:	<ul style="list-style-type: none"> - Screen loading time: less than 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - The reason for declining is provided by the staff member. - The system can notify the manager of the decline request.

Table 74: Manually assign night shift description

3.9.6 Reject the shift

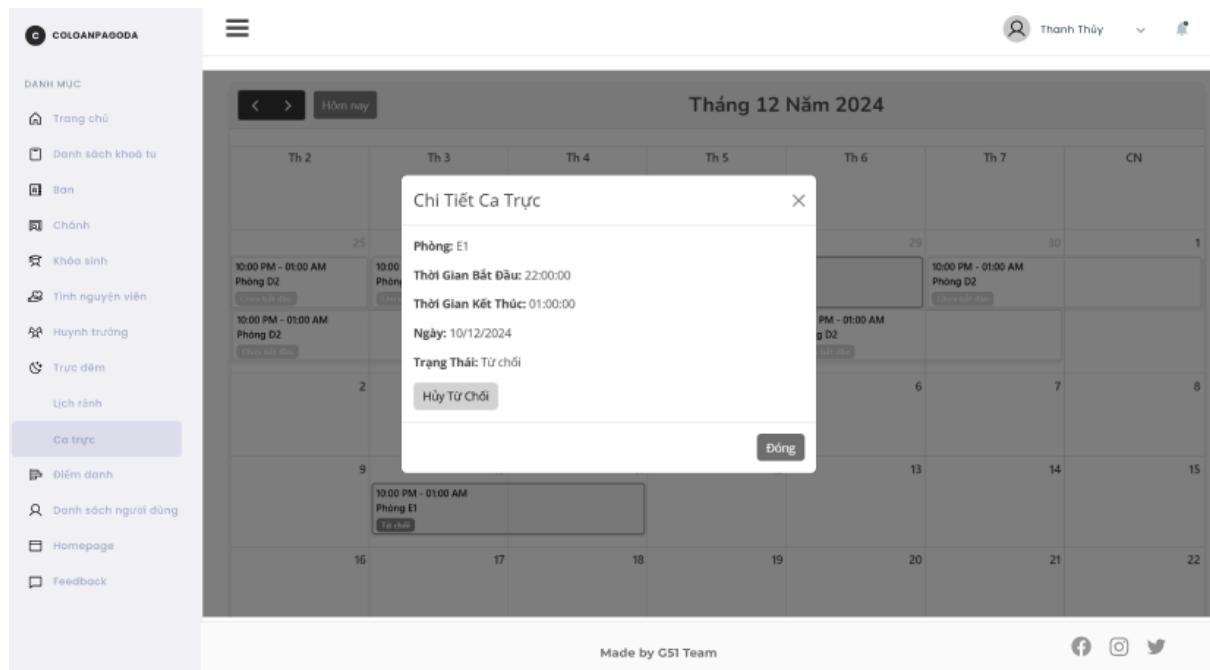


Figure 75. Request to Decline a Night Shift screen

UC ID and Name:	UC-69_Request to Decline a Night Shift		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Staff	Secondary Actors:	Manager
Trigger:	The user wants to decline an assigned night shift.		
Description:	This use case allows staff to view details of an assigned night shift and request to decline it if the shift is at least 3 days from the current date. The request must include a reason for declining the shift.		
Preconditions:	PRE-1 The user must log in to the system. PRE-2 The staff member has an assigned night shift.. PRE-3 The current date is at least 3 days before the shift date.		
Postconditions:	POST-1: The system records the request to decline the night shift along with the reason. POST-2: The manager is notified of the decline request.		
Normal Flow	<p>69.0 Request to Decline a Night Shift</p> <ol style="list-style-type: none"> 1. The user accesses the "Lịch trực" page via the left-hand menu under the "Trực đêm" section. 2. The system displays the schedule in a calendar format for the selected courses. 3. The user reviews the assigned shifts, which include staff names, room numbers, and shift times. 4. The user member clicks the "Decline" button. 5. The system prompts the staff member to enter a reason for declining the shift. 6. The user enters the reason and confirms the request. 7. The system records the decline request and notifies the manager. 		

Alternative Flows:	N/A
Exceptions:	<p>69.0.E1: The reason for declining is not provided.</p> <ul style="list-style-type: none"> - The system displays a message: "Lý do từ chối là bắt buộc khi từ chối ca trực".
Priority:	Medium
Frequency of Use:	Low
Business Rules:	BR-95, BR-101, BR-102, BR-103, BR-109
Other Information:	<ul style="list-style-type: none"> - Screen loading time: less than 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - The reason for declining is provided by the staff member. - The system can notify the manager of the decline request.

Table 75: Request to Decline a Night Shift function description

3.9.7 View rejected shifts list

#	Nhân viên	Ngày	Phòng	Ca trực	Trạng thái	Thao tác
1	minhhd	10/12/2024	E1	22:00 - 01:00	Chưa duyệt	Chi tiết

Figure 86. View List of Declined Night Shifts screen

UC ID and Name:	UC-70_View rejected shifts list		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Secretary
Trigger:	The user wants to view a list of night shifts that have been declined by staff.		
Description:	This use case allows the user to view a list of declined night shifts submitted by staff, including details such as the date, room, shift time, and decline status. The manager can filter the list based on criteria such as retreat, date, or status for easier management.		
Preconditions:	PRE-1 The user must log in to the system. PRE-2 The staff member has an assigned night shift.. PRE-3 Staff have submitted decline requests for night shifts.		
Postconditions:	POST-1: The system display a list of request decline night shift of staff		
Normal Flow	70.0 View List of Declined Night Shifts without search or filter. 1. The user accesses the "Danh sách hủy ca" page via the left-hand menu under the "Trực đêm" section.(See 70.1) 2. The system displays a table of declined shifts with columns for staff name, date, room, shift time, and approval status.		
Alternative Flows:	70.1 View List of Declined Night Shifts with search or filter. 1. The manager applies filters such as course, date, or status.(See 70.0.E1) 2.The system displays a table of declined shifts for corresponding criteria with columns for staff name, date, room, shift time, and approval status.		
Exceptions:	70.0.E1: Not any staff match with the corresponding criteria. - The system displays a message: "Không có dữ liệu để hiển thị".		

Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-95, BR-103, BR-104, BR-106
Other Information:	- Screen loading time: less than 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - The system stores all decline requests and their statuses. - The manager has the necessary permissions to view the list.

Table 76: View List of Declined Night Shifts function description

3.9.8 Accept a shift rejection

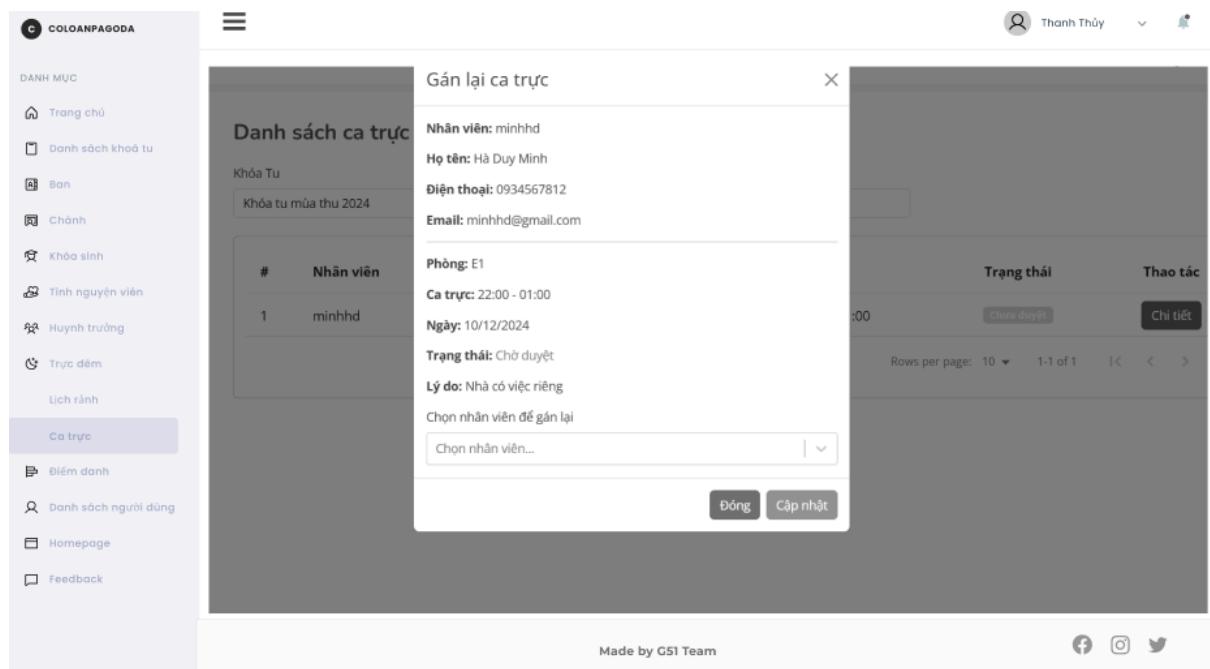


Figure 87. Accept rejection screen

UC ID and Name:	UC-71_Accept a night shift rejection		
Created By:	PhucND	Date Created:	25/Sept/2024

Primary Actor:	Manager	Secondary Actors:	Secretary
Trigger:	The user wants to accept a night shift rejection that has been declined by staff.		
Description:	This use case allows the user to accept a night shift rejection that has been declined by staff.		
Preconditions:	PRE-1 The user must log in to the system. PRE-2 The staff member has an assigned night shift.. PRE-3 Staff have submitted decline requests for night shifts.		
Postconditions:	POST-1: The user successfully accept a night shift rejection		
Normal Flow	<p>71.0 View List of Declined Night Shifts without search or filter.</p> <ol style="list-style-type: none"> 1. The user accesses the "Danh sách hủy ca" page via the left-hand menu under the "Trực đêm" section. 2. The system displays a table of declined shifts with columns for staff name, date, room, shift time, and approval status. 3. The users click on “Chi tiết” button at the “Thao tác” column 4. The users reassign the night shift to available supervisors and click the “Cập nhật” button.(See 71.0.1) 		
Alternative Flows:	N/A		
Exceptions:	<p>71.0.E1: New user has been assigned for that room.</p> <ul style="list-style-type: none"> - The system displays a message: "Người dùng không khả dụng cho ca trực này". 		
Priority:	Medium		
Frequency of Use:	Medium		
Business Rules:	BR-95, BR-103, BR-104, BR-106		

Other Information:	- Screen loading time: less than 3 seconds.
Assumptions:	- The system stores all decline requests and their statuses. - The manager has the necessary permissions to view the list.

Table 77. Accept rejection function description

3.9.9 View Night Shift setup

The screenshot shows the COLOANPAGODA application interface. On the left, there is a sidebar with various menu items such as Trang chủ, Danh sách khoa tu, Ban, Chính, Khoa sinh, Tinh nguyen vien, Huynh truong, Truc dem, and two highlighted sections: Lịch rảnh and Ca trực. The 'Ca trực' section is currently active. The main content area displays two tables. The first table, titled 'Xem thiết lập ca trực', lists three shifts: Ca 1 (21h30 - 24h), Ca 2 (0h - 2h30), and Ca 3 (2h30 - 5h00). The second table, titled 'Xem thiết lập phòng', lists three rooms: Phòng 1 (1 male, Dao), Phòng 2 (2 female, Can), and Phòng 3 (3 female, Tam). Both tables have columns for Name, Quantity, Gender, Position, and Actions (Edit, Delete). At the bottom, there is a navigation bar with page numbers (1, 2, ..., 9, 10) and social media icons (Facebook, Instagram, Twitter).

Figure 88. Manage Night Shift Configuration screen

UC ID and Name:	UC-72_Manage Night Shift Configuration		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Supervisor, Staff, Secretary
Trigger:	The user wants to configure night shifts for the course..		

Description:	<p>This use case allows users to configure night shifts for students in the course. It includes:</p> <ul style="list-style-type: none"> - Selecting a course that they want to configure through a dropdown filter. - Setting the start and end times for shift registration. - Managing the list of sleeping rooms (room name, gender, number of night staff, room leader's name). - Configuring the shift schedule (start time, end time).
Preconditions:	<p>PRE-1 The user must log in to the system.</p> <p>PRE-2 The user account must be authorized to perform the function.</p>
Postconditions:	POST-1 The feedback is removed from the system.
Normal Flow	<p>72.0 Manage Night Shift Configuration.</p> <ol style="list-style-type: none"> 1. The user accesses the "Cấu hình" page via the left-hand menu under the "Trực đêm" section. 2. The user selects the desired course from the dropdown. 3. The user set the start and end times for the night shift registration.(See 72.0.E1,72.0.E2) 4. The user manages the list of sleeping rooms, adding/editing/deleting room information.(See 72.0.E1,72.0.E2) 5. The user manages the shift schedule, adding/editing/deleting shifts with start and end times.(See 72.0.E1,72.0.E2)
Alternative Flows:	N/A
Exceptions:	<p>72.0.E1: Unable to save the configuration.</p> <ul style="list-style-type: none"> - The system displays an error message when saving fails (e.g., invalid data). <p>72.0.E2: Unable to find the list of rooms or shifts.</p> <ul style="list-style-type: none"> - The system displays the message "Không có dữ liệu để hiển thị".
Priority:	High

Frequency of Use:	High
Business Rules:	BR-95, BR-96, BR-97, BR-98, BR-108
Other Information:	- Screen loading time: less than 3 seconds.
Assumptions:	- The user has the necessary permissions to add, edit, and delete rooms and shifts.

Table 78. Manage Night Shift Configuration function description

3.9.10 Edit shift registration date

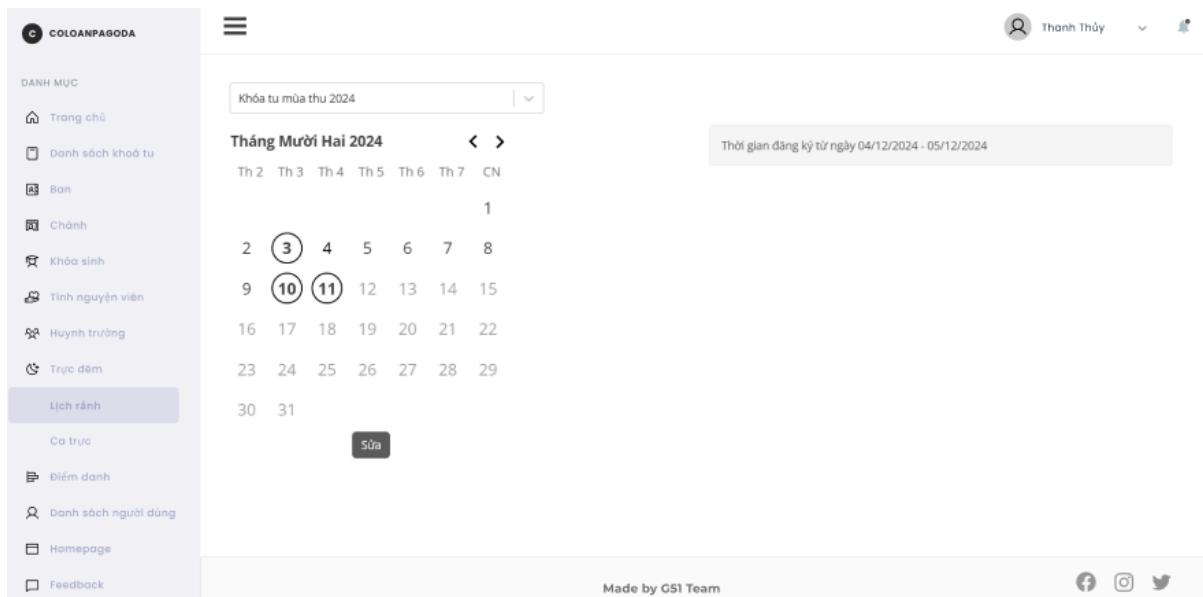


Figure 89. Edit shift registration screen

UC ID and Name:	UC-73 Edit shift registration date		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Staff	Secondary Actors:	Manager, Secretary
Trigger:	A staff member needs to update the registration date for a shift in the system.		

Description:	The staff member edits the registration date for a specific shift. This is useful when there is a change in the shift's timing or a need to reschedule. The system prompts the user to select a new date and updates the shift information accordingly, ensuring the shift is properly registered and displayed.
Preconditions:	<p>PRE-1 Users must login to the system.</p> <p>PRE-2 The user account has been authorized to perform the function.</p> <p>PRE-3: The shift to be edited must already exist in the system.</p>
Postconditions:	<p>POST-1: The staff member successfully updates the registration date for the selected shift.</p> <p>POST-2: The shift schedule reflects the new registration date.</p>
Normal Flow	<p>73.0 Edit shift registration date</p> <ol style="list-style-type: none"> 1. The staff member accesses the "Đăng ký lịch trực" page from the dashboard or navigation menu. 2. The staff click “Sửa” button at the bottom of the calendar.. 3. The staff member selects the new date. 4. The staff click the “Cập nhật” button to update the registration date.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-21, BR-17, BR-22, BR-07, BR-04, BR-08, BR-13.
Other Information:	The time to load the screen is less than 3 seconds.
Assumptions:	- The shift is displayed in the calendar format.

Table 79. Edit shift registration function description

3.9.11 View Schedule

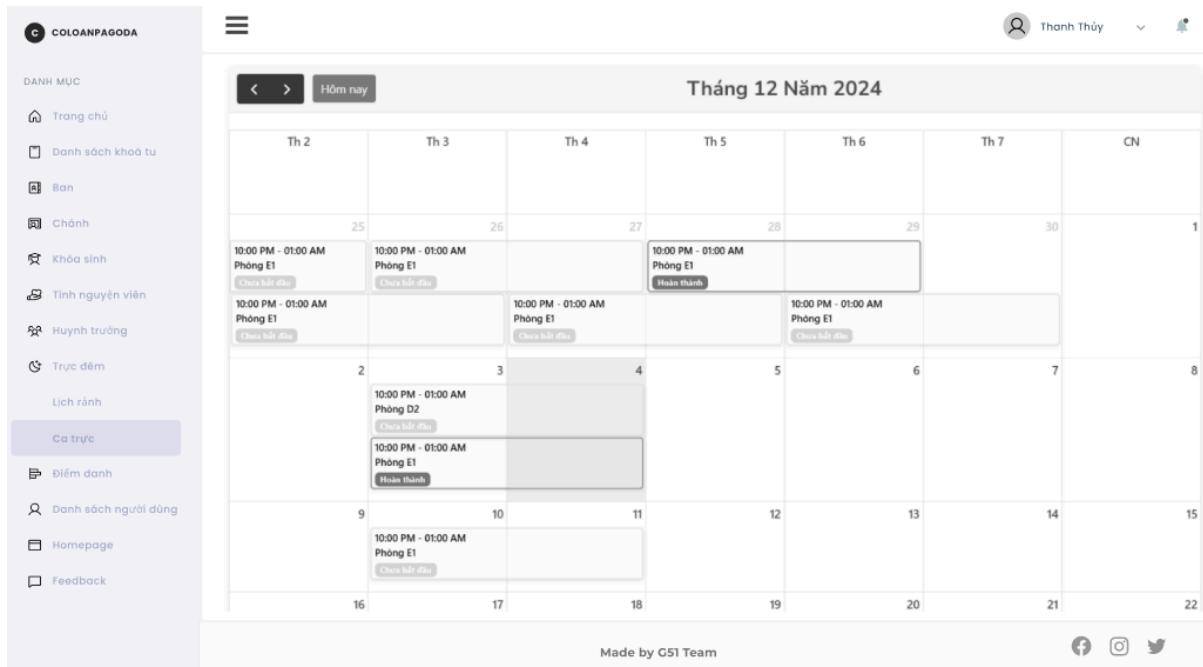


Figure 90. View schedule screen

UC ID and Name:	UC-74 View Schedule		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Staff	Secondary Actors:	Manager, Secretary
Trigger:	A staff member wants to view their shift schedule.		
Description:	The staff member views their upcoming shifts in the system, which include information such as date, time, and location of each shift. This allows the staff to plan and manage their work schedule effectively. The system also allows filtering by date range for better view.		
Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function.		
Postconditions:	POST-1: The staff member can see their scheduled shifts listed..		

Normal Flow	<p>74.0 View Schedule</p> <ol style="list-style-type: none"> 1. The staff accesses the "Lịch trực" page from the dashboard or navigation menu. 2. The page displays the staff member's upcoming shifts with relevant details (date, time, location, etc.). 3. The staff member may filter the schedule by date
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-21, BR-17, BR-22, BR-07, BR-04, BR-08, BR-13.
Other Information:	The time to load the screen is less than 3 seconds.
Assumptions:	- The shift is displayed in the calendar format.

Table 80. View schedule function description

3.9.12 Delete a staff from shift

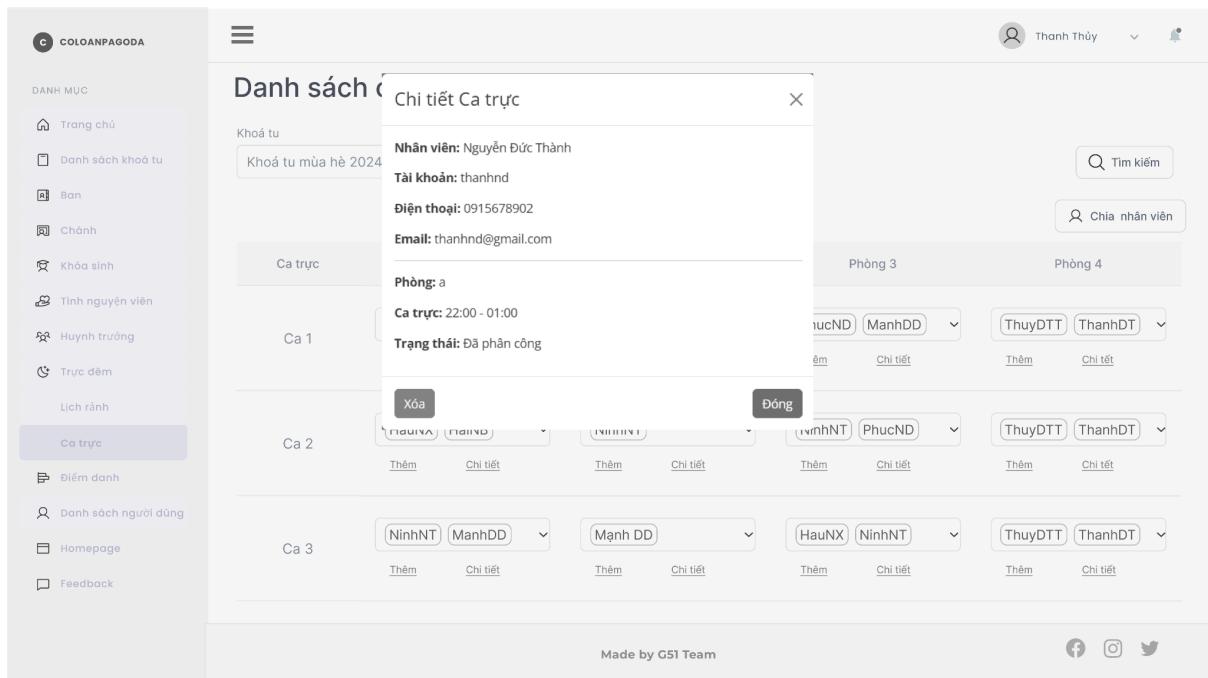


Figure 92. Delete a staff shift

UC ID and Name:	UC-75_Delete a staff from shift		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager, Secretary	Secondary Actors:	Staff
Trigger:	The users want to remove a staff member from their shift.		
Description:	The use case allow the users to remove staff from a shift		
Preconditions:	PRE-1 Users must login to the system. PRE-2 The user account has been authorized to perform the function. PRE-3 The staff was assigned to a shift		
Postconditions:	POST-1: The staff member is successfully removed from the shift, and the updated schedule is reflected in the system.		
Normal Flow	75.0 Delete a staff from shift		

	<ol style="list-style-type: none"> 1. The staff accesses the "Danh sách ca trực" page from the dashboard or navigation menu. 2. The manager or secretary selects the staff member's name from the shift they wish to remove. 3. The staff member is removed from the shift, and the shift schedule is updated accordingly.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-21, BR-17, BR-22, BR-07, BR-04, BR-08, BR-13.
Other Information:	The time to load the screen is less than 3 seconds.
Assumptions:	The “Danh sách ca trực” the shift is displayed in the table format.

Table 82. Delete a staff from shift

3.9.13 Add a New Room

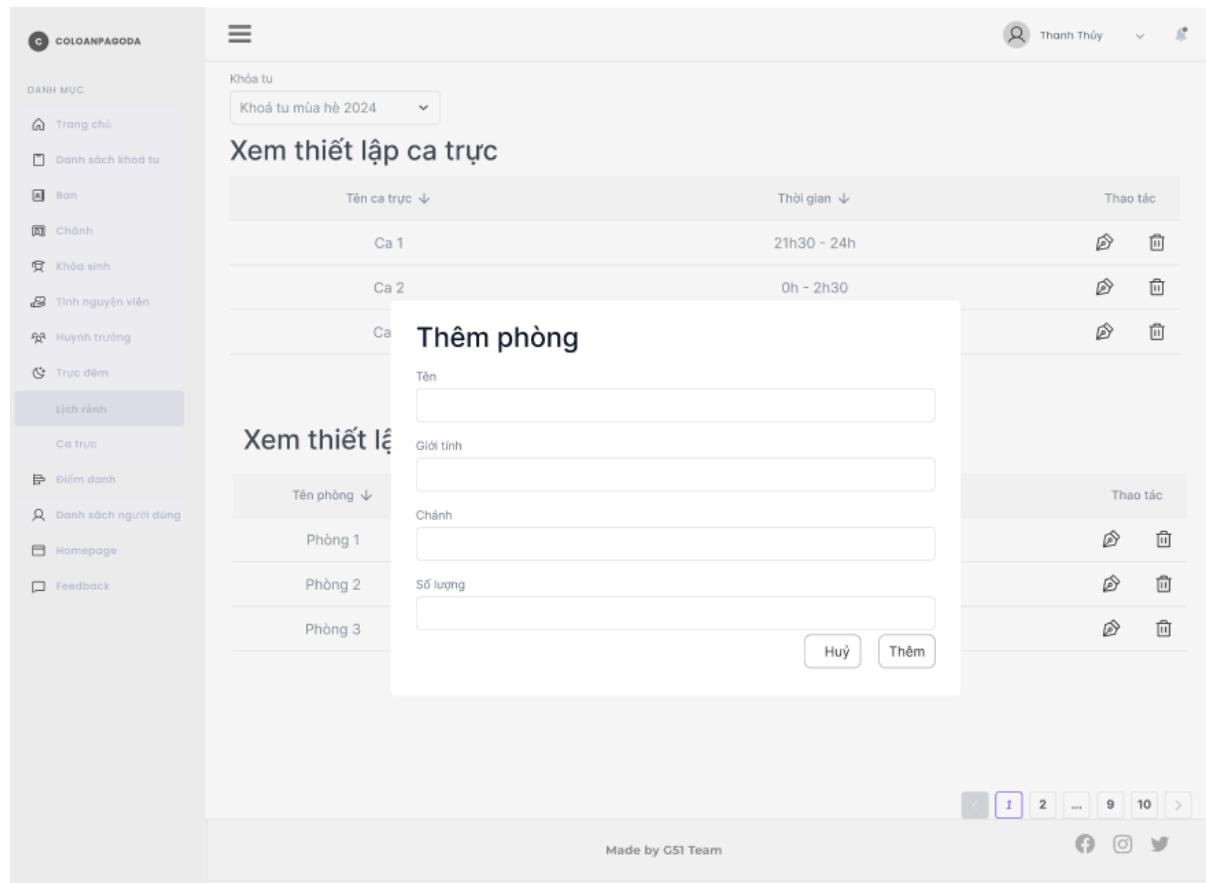


Figure 93. Add a New Room screen

UC ID and Name:	UC-76 Add a New Room		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Supervisor, Staff, Secretary
Trigger:	The actor wants to add a new room to the system for night shifts.		
Description:	This use case allows managers to create a new room with attributes like room name, gender restriction, and maximum capacity.		
Preconditions:	PRE-1 The user must log in to the system. PRE-2 The user account must be authorized to perform the function.		
Postconditions:	POST-1 The new room is successfully added to the system.		

Normal Flow	<p>76.0 Add a New Room.</p> <ol style="list-style-type: none"> 1. The user accesses the "Cấu hình" page via the left-hand menu under the "Trực đêm" section. 2. The user selects the desired course from the dropdown. 3. The user clicks the "Thêm mới" button on the "Danh sách phòng" list. 4. The system displays a form to input the following details: <ul style="list-style-type: none"> - Room Name - Gender Allowed - Maximum Capacity. 3. The actor fills in the details and clicks "Lưu." (See 76.0.E1) 4. The system validates the data and adds the room to the list. 5. The system displays a success message
Alternative Flows:	N/A
Exceptions:	<p>76.0.E1: Invalid data input or missing required fields (e.g., Gender...).</p> <ol style="list-style-type: none"> 1. The system displays an error message “Giới tính là bắt buộc”. <p>76.0.E2: Unable to find the list of rooms or shifts.</p> <ul style="list-style-type: none"> - The system displays the message "Không có dữ liệu để hiển thị".
Priority:	High
Frequency of Use:	High
Business Rules:	BR-88, BR-89, BR-90, BR-92, BR-94
Other Information:	<ul style="list-style-type: none"> - The room list updates in real time after addition.
Assumptions:	<ul style="list-style-type: none"> - The user has the necessary permissions to add, edit, and delete rooms

Table 83: Add a New Room function description

3.9.14 Update Room

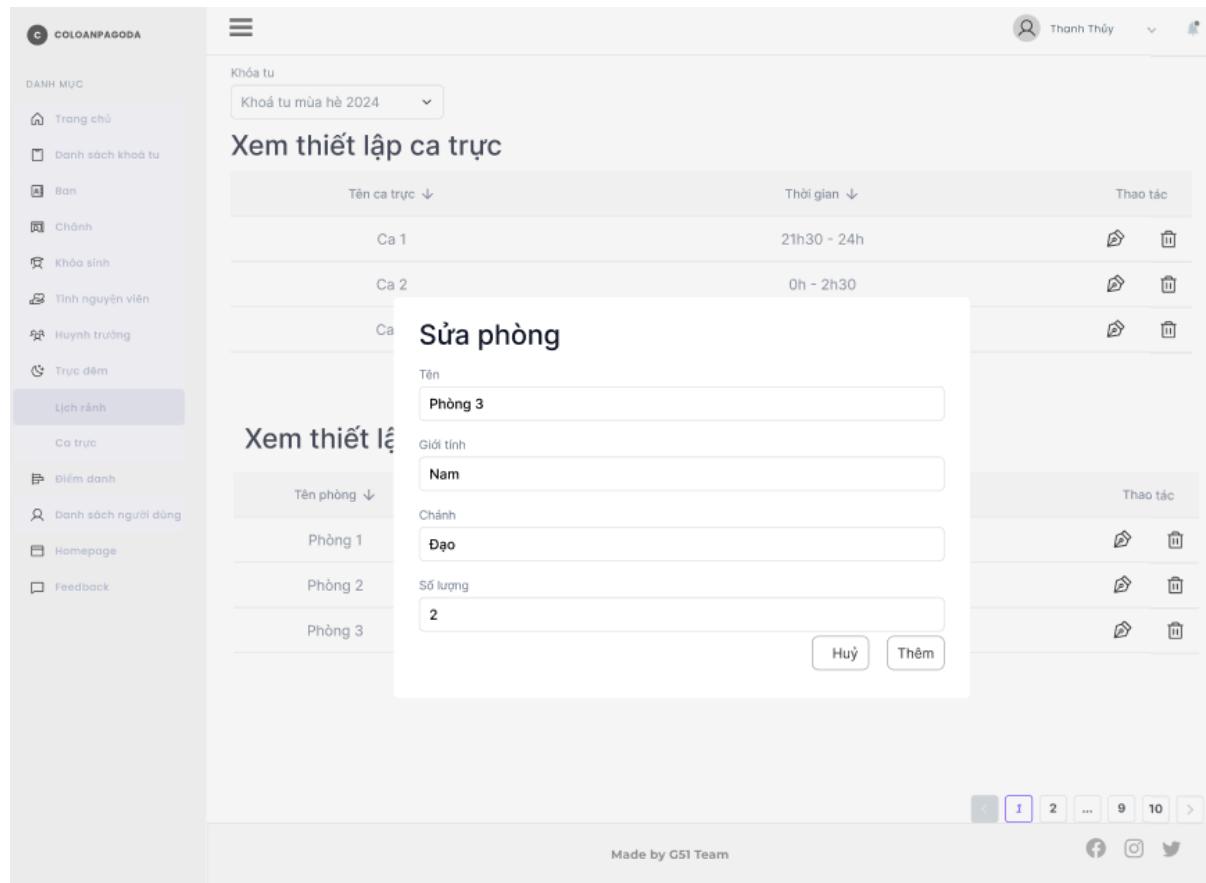


Figure 94. Update Room screen

UC ID and Name:	UC-77_Update Room		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Supervisor, Staff, Secretary
Trigger:	The user wants to modify the details of an existing room.		
Description:	This use case allows managers to update room attributes, such as name, gender restriction, and capacity.		
Preconditions:	PRE-1 The user must log in to the system. PRE-2 The user account must be authorized to perform the function.		
Postconditions:	POST-1 The updated room details are saved successfully.		

Normal Flow	<p>77.0 Update Room Information</p> <ol style="list-style-type: none"> 1. The user accesses the "Cấu hình" page via the left-hand menu under the "Trực đêm" section. 2. The user selects the desired course from the dropdown. 3. The actor clicks the "Edit" icon next to a room in the list. 4. The system displays the current room details in an editable form. 5. The actor modifies the necessary fields and clicks "Lưu." (See 77.0.E1) 6. The system validates the input and updates the room details. 7. The system displays a success message.
Alternative Flows:	N/A
Exceptions:	<p>77.0.E1: Invalid data input or missing required fields (e.g., Gender...).</p> <ol style="list-style-type: none"> 1. The system displays an error message “Giới tính là bắt buộc”.
Priority:	High
Frequency of Use:	High
Business Rules:	BR-88, BR-89, BR-90, BR-92, BR-94
Other Information:	<ul style="list-style-type: none"> - The room list updates in real time after addition.
Assumptions:	<ul style="list-style-type: none"> - The user has the necessary permissions to add, edit, and delete rooms

Table 84: Update Room Information function description

3.9.15 Delete Room

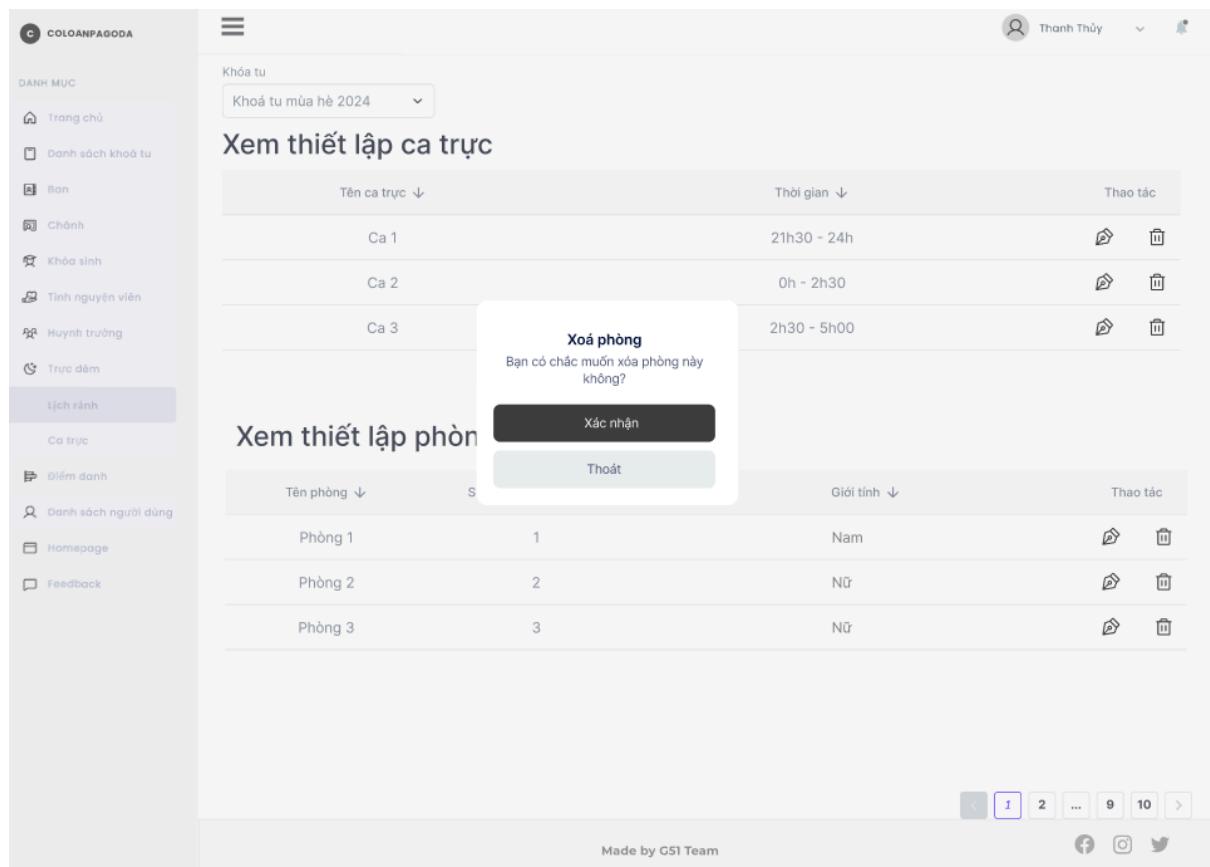


Figure 95. Delete a room screen

UC ID and Name:	UC-78_Delete a Room		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Supervisor, Staff, Secretary
Trigger:	The user wants to remove a room from the system.		
Description:	This use case allows users to delete rooms no longer needed for night shifts.		
Preconditions:	PRE-1 The user must log in to the system. PRE-2 The user account must be authorized to perform the function.		
Postconditions:	POST-1 The selected room is deleted from the system.		

Normal Flow	<p>78.0 Delete a Room</p> <ol style="list-style-type: none"> 1. The actor clicks the "Delete" icon next to a room in the list. 2. The system displays a confirmation popup. 3. The actor confirms the deletion. 4. The system removes the room from the list and displays a success message.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	Medium
Frequency of Use:	High
Business Rules:	BR-88, BR-91, BR-94
Other Information:	<ul style="list-style-type: none"> - The room list updates in real time after addition.
Assumptions:	<ul style="list-style-type: none"> - Rooms with no active assignments are safe to delete. - The actor confirms deletion with careful consideration.

Table 85: Delete a room function description

3.9.16 Add night shift time

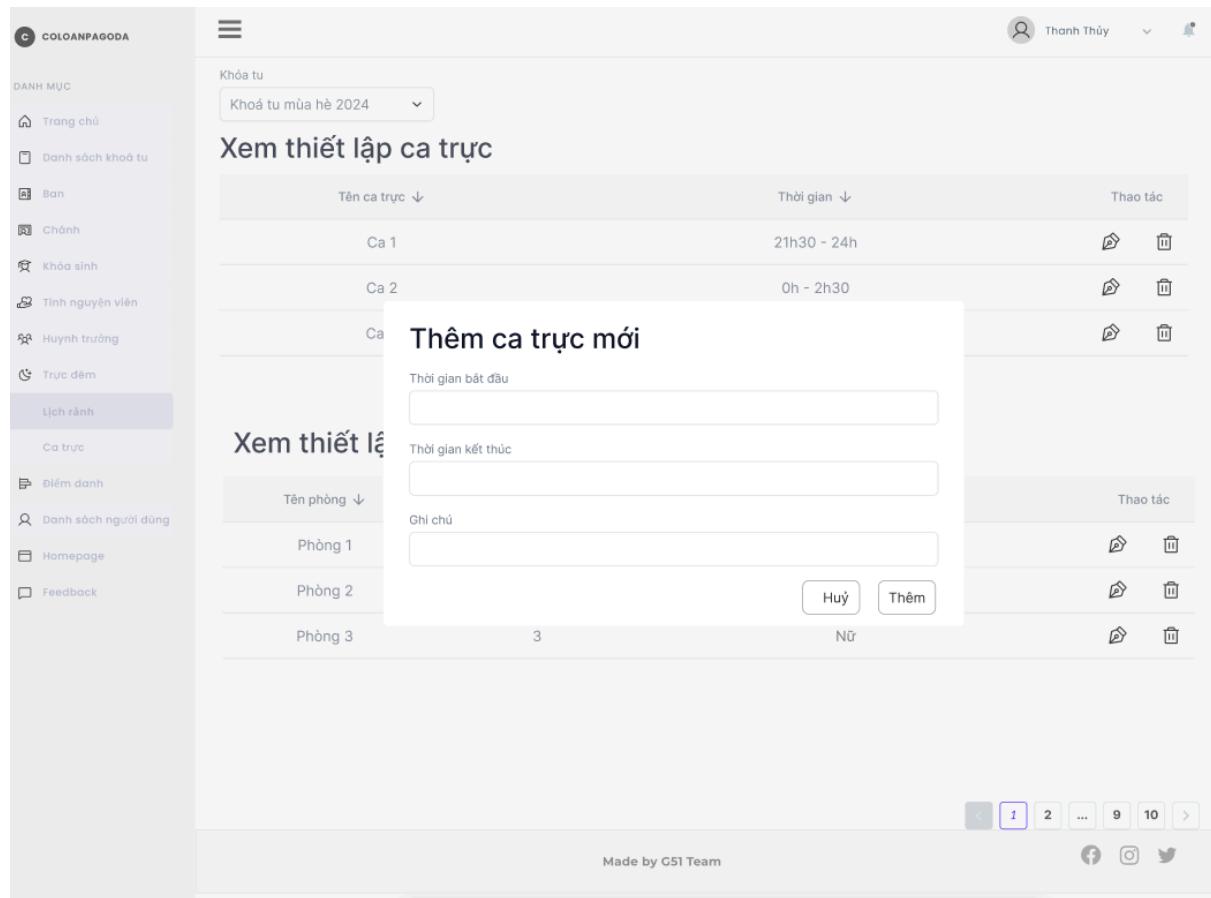


Figure 96. Add night shift time

UC ID and Name:	UC-79_Add night shift time		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Supervisor, Staff, Secretary
Trigger:	The user wants to add a new night shift into the system.		
Description:	This use case allows users to create a new night shift with attributes like start time, end time, and note.		
Preconditions:	PRE-1 The user must log in to the system. PRE-2 The user account must be authorized to perform the function.		

Postconditions:	POST-1 The new room is successfully added to the system.
Normal Flow	<p>79.0 Add a New Room.</p> <ol style="list-style-type: none"> 1. The user accesses the "Cấu hình" page via the left-hand menu under the "Trực đêm" section. 2. The user selects the desired course from the dropdown. 3. The user clicks the "Thêm mới" button on the "Danh sách ca trực". 4. The system displays a form to input the following details: <ul style="list-style-type: none"> - Start Time - End Time - Note. 3. The user fills in the details and clicks "Lưu." (See 79.0.E1) 4. The system validates the data and adds the night shift to the list. 5. The system displays a success message
Alternative Flows:	N/A
Exceptions:	<p>79.0.E1: Invalid data input or missing required fields (e.g., Start date, End Date...).</p> <ol style="list-style-type: none"> 1. The system displays an error message “”.
Priority:	High
Frequency of Use:	High
Business Rules:	BR-95, BR-96, BR-97, BR-98, BR-99, BR-102
Other Information:	<ul style="list-style-type: none"> - The night shift list updates in real time after addition.
Assumptions:	<ul style="list-style-type: none"> - The user has the necessary permissions to add, edit, and delete rooms

Table 86: Add a night shift function description

3.9.17 Edit night shift time

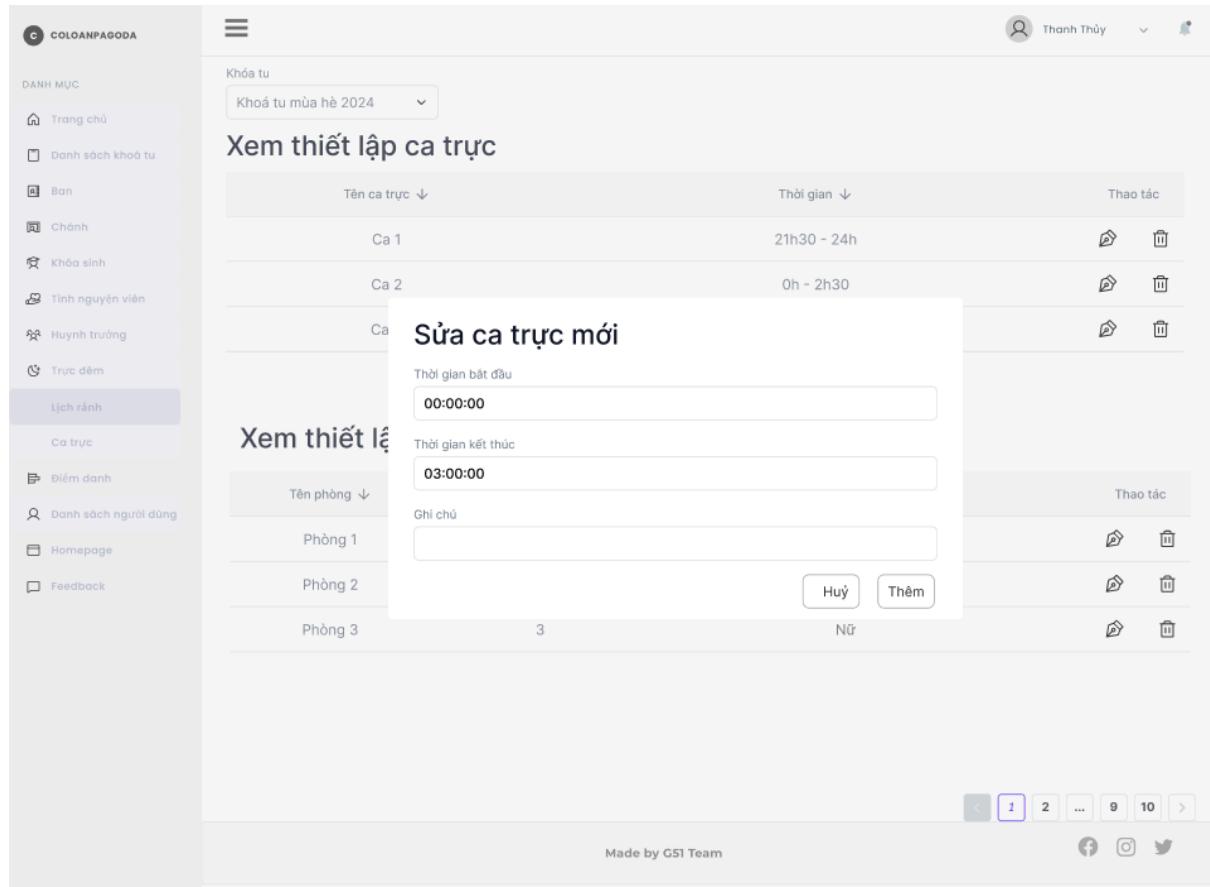


Figure 97. Edit night shift time screen

UC ID and Name:	UC-80_Update night shift time		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Supervisor, Staff, Secretary
Trigger:	The user wants to modify the details of an existing night shift.		
Description:	This use case allows managers to update room attributes, such as start date, end date, and note.		
Preconditions:	PRE-1 The user must log in to the system. PRE-2 The user account must be authorized to perform the function.		
Postconditions:	POST-1 The updated night shift details are saved successfully.		

Normal Flow	<p>80.0 Update night shift information</p> <ol style="list-style-type: none"> 1. The user accesses the "Cấu hình" page via the left-hand menu under the "Trực đêm" section. 2. The user selects the desired course from the dropdown. 3. The user clicks the "Edit" icon next to a night shift in the list. 4. The system displays the current night shift details in an editable form. 5. The actor modifies the necessary fields and clicks "Lưu." (See 80.0.E1) 6. The system validates the input and updates the night shift details. 7. The system displays a success message.
Alternative Flows:	N/A
Exceptions:	<p>80.0.E1: Invalid data input or missing required fields (e.g., Start date, End Date...).</p> <ol style="list-style-type: none"> 1. The system displays an error message.
Priority:	High
Frequency of Use:	High
Business Rules:	BR-95, BR-96, BR-97, BR-98, BR-99, BR-102
Other Information:	<ul style="list-style-type: none"> - The night shift list updates in real time after addition.
Assumptions:	<ul style="list-style-type: none"> - The user has the necessary permissions to add, edit, and delete night shift

Table 87: Update night shift time function description

3.9.18 Delete night shift time

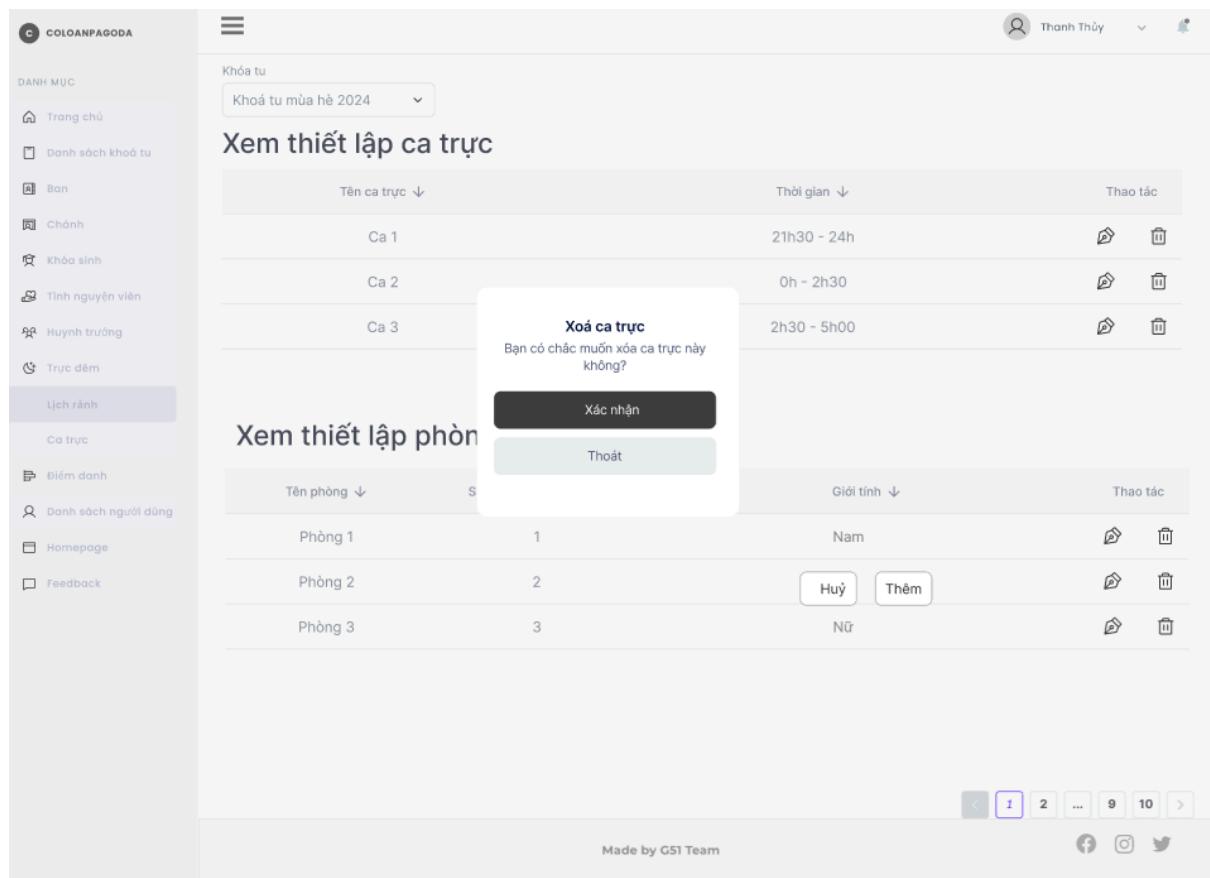


Figure 98. Delete night shift time screen

UC ID and Name:	UC-81_Delete night shift time		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Supervisor, Staff, Secretary
Trigger:	The user wants to remove a night shift from the system.		
Description:	This use case allows users to delete night shifts no longer needed.		
Preconditions:	PRE-1 The user must log in to the system. PRE-2 The user account must be authorized to perform the function.		
Postconditions:	POST-1 The selected night shift is deleted from the system.		

Normal Flow	<p>81.0 Delete a night shift</p> <ol style="list-style-type: none"> 1. The actor clicks the "Delete" icon next to a night shift in the list. 2. The system displays a confirmation popup. 3. The actor confirms the deletion. 4. The system removes the night shift from the list and displays a success message.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	Medium
Frequency of Use:	High
Business Rules:	BR-95, BR-101, BR-102
Other Information:	<ul style="list-style-type: none"> - The night shift list updates in real time after addition.
Assumptions:	<ul style="list-style-type: none"> - Night shifts with no active assignments are safe to delete. - The actor confirms deletion with careful consideration.

Table 88: Delete a night shift function description

3.10 Post management

3.10.1. View Post List

Figure 99. View post list screen

UC ID and Name:	UC-82_View Post List		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Staff, Manager	Secondary Actors:	Supervisor
Trigger:	A staff or manager indicates that they want to view the post list.		
Description:	The actor views a list of posts in the system. The actor can search, filter, and list specific posts.		
Preconditions:	PRE-1 Users must log in to the system.		

	PRE-2 The user account must be authorized to perform the function.
Postconditions:	POST-1 The system displays the list of posts based on search, filter, or sort criteria.
Normal Flow	<p>82.0 View the post list without a filter.</p> <ol style="list-style-type: none"> 1. The user accesses the post management page through the "Bài đăng" menu in the sidebar.(See 82.1) 2. The system displays the list of posts.(See 82.0.E1).
Alternative Flows:	<p>82.1 View the post list with a filter.</p> <ol style="list-style-type: none"> 1.The user can searches, filter the fields as they want. 2.The system displays the list of posts with following criteria.(See 82.0.E1).
Exceptions:	<p>83.0.E1 No matching results found.</p> <ol style="list-style-type: none"> 1. The system displays: "Không có kết quả phù hợp.".
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05,BR-14,BR-36,BR-37,BR-38
Other Information:	The time to load the screen is less than 3 seconds.
Assumptions:	- Postings scheduled by default by the latest date will be at the top of the list.

Table 89. View post list function description

3.10.2. View Post Details

Xem chi tiết bài đăng

Thêm ảnh cover

Người tạo: HauNX Ngày tạo: 14/11/2024

Người sửa: NinhNT Ngày sửa: 17/11/2024

Chọn mục: Bài đăng giới thiệu

Nội dung:

Khóa tu mùa hè lần này thực sự đã mang lại cho tôi nhiều cảm xúc và trải nghiệm tuyệt vời. Từ cách tổ chức đến nội dung, mọi thứ đều được chuẩn bị rất chu đáo.

Không gian khóa tu rất thoải mái và yên tĩnh, phù hợp để thực hành thiền và rèn luyện tinh thần. Ban tổ chức đã sắp xếp mọi thứ từ chỗ ở, ăn uống đến các hoạt động một cách hợp lý và thuận tiện cho người tham gia.

Nội dung chương trình: Các buổi thuyết giảng rất ý nghĩa và sâu sắc, giúp tôi hiểu rõ hơn về tâm linh và cuộc sống hiện tại. Những bài học vẽ từ bi, lắng nghe, và sự buông bỏ đã thực sự chạm đến tôi. Hoạt động thiền và yoga mỗi ngày giúp tôi cân bằng tinh thần và cải thiện sức khỏe. Những giờ phút tĩnh lặng đó khiến tôi nhận ra nhiều điều về bản thân mà trước đây chưa từng nhận thấy.

Quay lại | Chính sửa bài đăng

Made by G51 Team |

Figure 100. View post detail screen

UC ID and Name:	UC-83_View Post Details		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Staff, Manager	Secondary Actors:	Supervisor
Trigger:	A staff or manager wants to view the detailed information of a specific post.		

Description:	This use case allows users to view detailed information about a post, including the title, content, cover image, category, status, creation date, last edited date, creator, and editor.
Preconditions:	PRE-1 Users must log in to the system. PRE-2 The user account must be authorized to perform the function. PRE-3 The post must exist in the system.
Postconditions:	POST-1 The system successfully displays the detailed information of the selected post.
Normal Flow	<p>83.0 View post details.</p> <ol style="list-style-type: none"> 1. The user accesses the post management page through the "Bài đăng" menu in the sidebar. 2. The system displays the list of posts. 3. The user clicks the eye icon in the "Thao tác" column of the desired post. 4. The system navigates the user to the post detail page. 5. The system displays the following post details.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05,BR-14
Other Information:	The time to load the screen is less than 3 seconds.
Assumptions:	- The post data is already stored in the database and accessible when the user views details.

Table 90. View post detail function description

3.10.3. Add Post

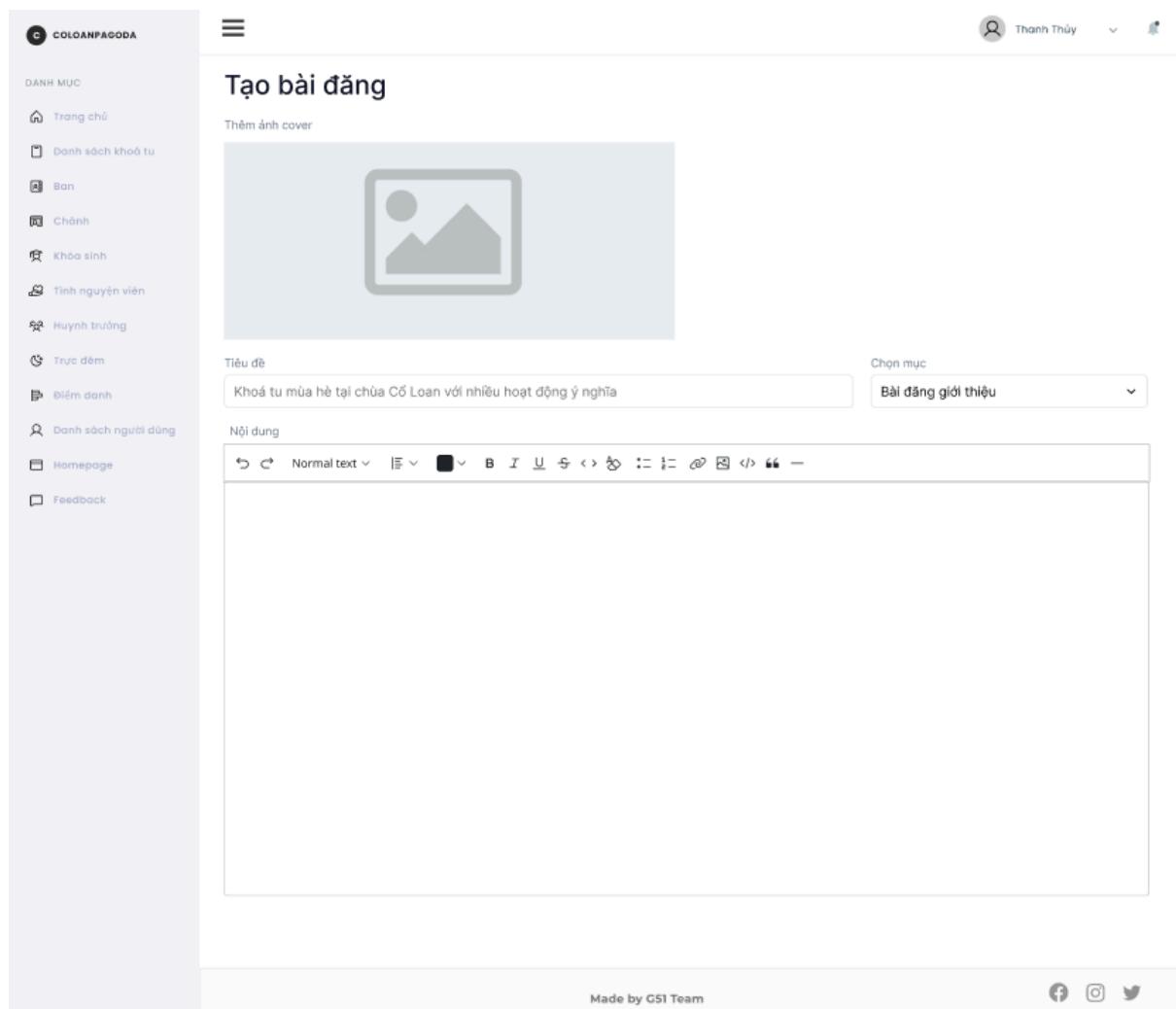


Figure 101. Add post screen

UC ID and Name:	UC-84_Add Post		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Staff, Manager	Secondary Actors:	Supervisor
Trigger:	A staff or manager indicates that they want to create a new post.		

Description:	The actor creates a new post by filling in required fields, such as title, content, and a cover image.
Preconditions:	PRE-1 Users must log in to the system. PRE-2 The user account must be authorized to perform the function.
Postconditions:	POST-1 The new post is successfully created and visible in the post list..
Normal Flow	<p>84.0 Add a new post.</p> <ol style="list-style-type: none"> 1. The user accesses the post management page through the "Bài đăng" menu in the sidebar. 2. Users clicks the "Thêm mới" button. 3. Users fill in the required fields and upload optional files (e.g., cover image). 4. The user clicks "Tạo bài đăng" to successfully create a new post.(See 84.0.E1).
Alternative Flows:	N/A
Exceptions:	<p>84.0.E1: System error while creating a post.</p> <ol style="list-style-type: none"> 1. If the entered information is invalid or incomplete, the system should display an alert message and prompt the student to retry.
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-39, BR-36, BR-37, BR-38
Other Information:	The time to load the screen is less than 3 seconds.
Assumptions:	- After the user creates, the information must be inserted into the database and display a success message within a second, then back to the view post list screen.

Table 91. Add post function description

3.10.4. Edit Post

The screenshot displays the 'Edit Post' interface for a specific post type. The left sidebar lists various menu items such as Trang chủ, Danh sách khóa tu, Ban, Chính, Khóa sinh, Tinh nguyên viên, Huynh trưởng, Trực đêm, Điểm danh, Danh sách người dùng, Homepage, and Feedback. The main content area is titled 'Sửa bài đăng' and features a placeholder image. Below it, there are fields for 'Tiêu đề' (Title) containing the text 'Khóa tu mùa hè tại chùa Cổ Loan với nhiều hoạt động ý nghĩa' and 'Chọn mục' (Select Category) set to 'Bài đăng giới thiệu'. A rich text editor contains placeholder text about summer retreat activities. A summary section ('Nội dung chương trình') describes the program's purpose. At the bottom, there are buttons for 'Quay lại' (Back) and 'Sửa' (Edit).

Figure 102. Edit post screen

UC ID and Name:	UC-85_Edit Post		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Staff, Manager	Secondary Actors:	Supervisor
Trigger:	A staff or manager indicates that they want to edit an existing post.		
Description:	This use case allows the user to update the information of a specific post so that the user can edit when the post information change.		

Preconditions:	<p>PRE-1 Users must log in to the system.</p> <p>PRE-2 The user account must be authorized to perform the function.</p> <p>PRE-3 The post must exist in the system.</p>
Postconditions:	POST-1 The updated post is saved and replaces the old version.
Normal Flow	<p>85.0 Edit an existing post.</p> <ol style="list-style-type: none"> 1. The user accesses the post management page through the "Bài đăng" menu in the sidebar.(See 85.1). 2. The user clicks the pencil icon in the “Thao tác” column. 3. The user updates the fields as needed. 4. The user clicks "Lưu" to successfully save a new post.(See 85.0.E1).
Alternative Flows:	<p>85.1 Edit post through the post detail page.</p> <ol style="list-style-type: none"> 1. The user accesses the post detail page by clicking the eye icon in the “Thao tác” column. 2. The actor clicks the "Chỉnh sửa bài đăng" button at the bottom of the detail page. 3. The actor updates the fields. 4. The user clicks "Lưu" to successfully save an edited post.(See 85.0.E1)
Exceptions:	<p>85.0.E1: System error while editing a post.</p> <ol style="list-style-type: none"> 1. If the entered information is invalid or incomplete, the system should display an alert message and prompt the student to retry.
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05,BR-14,BR-39
Other Information:	<ul style="list-style-type: none"> - The time to load the screen is less than 3 seconds.

Assumptions:	- After the user edited, the information must be replaced into the database and display a success message within a second, then back to the view post list screen.
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Table 92. Add post function description

3.10.5 Delete Post

Figure 103. Delete post screen

UC ID and Name:	UC-86 _ Delete Post		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Staff, Manager	Secondary Actors:	Supervisor

Trigger:	A staff or manager indicates that they want to delete a post.
Description:	This use case allows the user to update the information of a specific post so that the user can edit when the post information changes.
Preconditions:	<p>PRE-1 Users must log in to the system.</p> <p>PRE-2 The user account must be authorized to perform the function.</p> <p>PRE-3 The post must exist in the system.</p>
Postconditions:	POST-1 The selected post is deleted from the system and no longer visible in the post list.
Normal Flow	<p>86.0 Delete an existing post.</p> <ol style="list-style-type: none"> 1. The user accesses the post management page through the "Bài đăng" menu in the sidebar. 2. The user clicks the bin icon in the “Thao tác” column. 3. The system displays a confirmation dialog: "Bạn có chắc chắn muốn xóa bài đăng này không?"(See 86.1). 4. The user clicks "Xác nhận." 5. The system deletes the post.
Alternative Flows:	<p>86.1 Cancel Delete Post</p> <ol style="list-style-type: none"> 1. At the confirmation popup, the user clicks "Hủy." 2. The system closes the popup without making any changes.
Exceptions:	N/A
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-40
Other Information:	<ul style="list-style-type: none"> - The system must respond and display delete popup within 2 seconds.

Assumptions:

- After the user confirms, soft delete the post and display a success message within a second, then back to the view list screen.

Table 93. Delete post function description

3.10.6 View Post List on Home Page

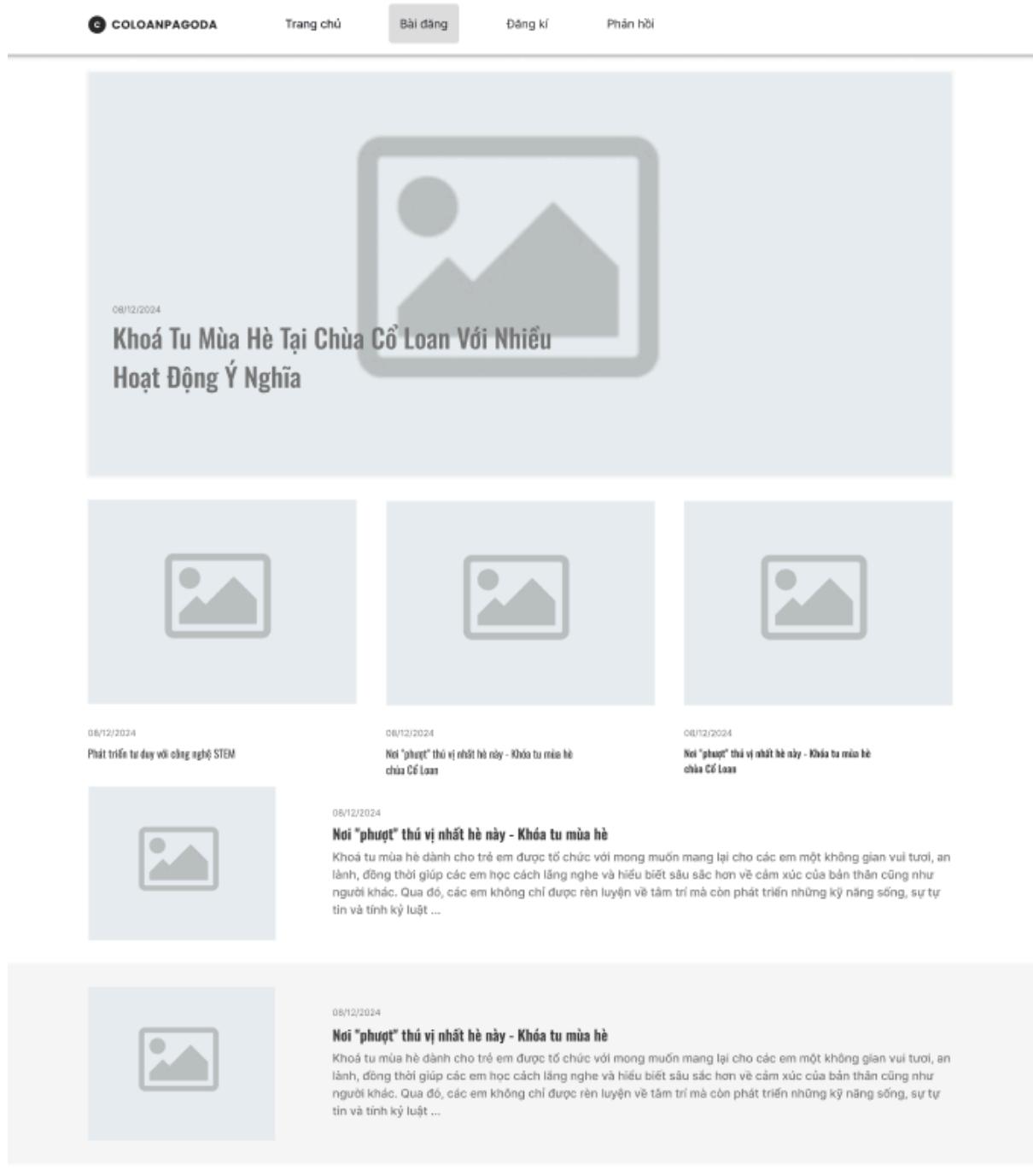


Figure 104. View Post List on Home Page screen

UC ID and Name:	UC-87_View Post List on Home Page		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Guest	Secondary Actors:	N/A
Trigger:	A user indicates they want to browse posts on the home page.		
Description:	This use case allows users (guests) to view a list of posts displayed on the home page. Users can scroll through a list of posts with titles, publication dates, short descriptions, and thumbnails. Posts are ordered by the latest publication date by default.		
Preconditions:	PRE-1 The system has published posts available. PRE-2 The home page is accessible to users.		
Postconditions:	POST-1 The system displays the list of posts on the home page.		
Normal Flow	<p>87.0 View Post List on Home Page.</p> <ol style="list-style-type: none"> 1. The user accesses the home page through the website. 2. The user clicks “Bài đăng” on the navigation bar and selects what categories they want to see. 3. The system displays a list of posts that are related to the category. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Use:	High		
Business Rules:	BR-118		

Other Information:	The time to load the screen is less than 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - The system dynamically adjusts the layout for various devices and screen sizes. - The list is displayed descending by date.

Table 94. View Post List on Home Page function description

3.10.7 View Post Detail on Home Page

Tin liên quan

- Noi "phượt" thú vị nhất hè này - Khóa tu mùa hè**
Mùa hè là thời điểm không chỉ để thư giãn, nghỉ ngơi mà còn là dịp để nhiều người trẻ tìm về với những giá trị tinh thần.
08/12/2024
- Noi "phượt" thú vị nhất hè này - Khóa tu mùa hè**
Mùa hè là thời điểm không chỉ để thư giãn, nghỉ ngơi mà còn là dịp để nhiều người trẻ tìm về với những giá trị tinh thần.
08/12/2024
- Noi "phượt" thú vị nhất hè này - Khóa tu mùa hè**
Mùa hè là thời điểm không chỉ để thư giãn, nghỉ ngơi mà còn là dịp để nhiều người trẻ tìm về với những giá trị tinh thần.
08/12/2024
- Noi "phượt" thú vị nhất hè này - Khóa tu mùa hè**
Mùa hè là thời điểm không chỉ để thư giãn, nghỉ ngơi mà còn là dịp để nhiều người trẻ tìm về với những giá trị tinh thần.
08/12/2024

Figure 105. View Post Detail on Home Page screen

UC ID and Name:	UC-88_View Post Detail on Home Page
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Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Guest	Secondary Actors:	N/A
Trigger:	A user indicates they want to view post detail.		
Description:	This use case allows users (guests) to view detailed information about a specific post on the home page. Users can see the post's title, publication date, full content, and a list of related posts displayed on the sidebar.		
Preconditions:	PRE-1 The system has published posts available. PRE-2 The home page is accessible to users.		
Postconditions:	POST-1 The system displays the post's detailed content. POST-2 The system displays a list of related posts.		
Normal Flow	<p>88.0 View Post Detail on Home Page</p> <ol style="list-style-type: none"> 1. The user accesses the home page and clicks on “Bài đăng” from the navigation bar. 2. The user selects a category or browses through the list of posts. 3. The user clicks on a post to view its details. 4. The system displays the post's detailed view 5. The system displays a sidebar with related posts for further browsing. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	The time to load the screen is less than 3 seconds.		

Assumptions:	<ul style="list-style-type: none"> - The system dynamically adjusts the layout for various devices and screen sizes.
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Table 95. View Post List on Home Page function description

3.11 Report Management

3.11.1. View Report List

Ngày	Chánh	Người nộp	Ngày nộp	Trạng thái	Xem	Sửa	Điểm danh
07/10/2024	Trí	HauNX	07/10/2024	Đã điểm danh	Xem	Sửa	Điểm danh
07/10/2024	Nguyễn	NinhNT	07/10/2024	Đã điểm danh	Xem	Sửa	Điểm danh
07/10/2024	Tâm	-	07/10/2024	Muộn	Xem	Sửa	Điểm danh
08/10/2024	Trí	-	-	Chưa tới	Xem	Sửa	Điểm danh
08/10/2024	Nguyễn	-	-	Chưa tới	Xem	Sửa	Điểm danh
08/10/2024	Trí	-	-	Chưa tới	Xem	Sửa	Điểm danh
09/10/2024	Tâm	-	-	Chưa tới	Xem	Sửa	Điểm danh
09/10/2024	Nguyễn	-	-	Chưa tới	Xem	Sửa	Điểm danh
09/10/2024	Tâm	-	-	Chưa tới	Xem	Sửa	Điểm danh
10/10/2024	Trí	-	-	Chưa tới	Xem	Sửa	Điểm danh

Figure 106. View daily report list screen

UC ID and Name:	UC-89_View Report List		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Staff, Manager, Supervisor	Secondary Actors:	Secretary
Trigger:	The actor wants to view daily reports for specific courses or classes.		

Description:	The actor views a list of daily reports in the system, including basic information such as course name, class name, and report status. The actor can search, filter, and sort the reports for more specific results.
Preconditions:	PRE-1 Daily daily reports for the course must exist. PRE-2 The user account has been authorized to perform the function. PRE-3 Users must log in to the system.
Postconditions:	POST-1: The list of daily reports is displayed based on the specified conditions.
Normal Flow	<p>89.0 View report list without search, sort filter.</p> <ol style="list-style-type: none"> 1. Users access this page through the “Điểm danh” button under “Khóa sinh” in the dashboard area on the left side of the page. 2. The page will display a list of daily reports generated for all classes in the selected course.
Alternative Flows:	<p>89.1 View report list with search.</p> <ol style="list-style-type: none"> 1. The actor enters search criteria (e.g., Khóa tu, chánh, người nộp, ngày...) into the search form. 2. The actor clicks the “Tìm kiếm” button.(see 89.1.E1) 3. The system displays the list of reports matching the search criteria. <p>89.2 View report list with sort.</p> <ol style="list-style-type: none"> 1.The actor clicks on a column header (e.g., "ngày",) and selects a sorting option. 2.The system displays the list sorted according to the actor's selection.
Exceptions:	<p>89.1.E1 No matching results with search</p> <ol style="list-style-type: none"> 1. The system displays the message: "Không có kết quả phù hợp".
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-26, BR-28, BR-32

Other Information:	- The time to load the screen is less than 3 seconds.
Assumptions:	- The list is displayed in ascending order of the report date by default

Table 96: View daily report list function description

3.11.2. Submit Report

Mã học sinh	Họ và tên	Vắng	Có mặt
KTNH0001	Nguyễn Xuân Hậu	<input checked="" type="radio"/> Vắng	<input type="radio"/> Có mặt
KTNH0002	Đỗ Thị Thanh Thuỷ	<input checked="" type="radio"/> Vắng	<input type="radio"/> Có mặt
KTNH0003	Nguyễn Duy Phúc	<input checked="" type="radio"/> Vắng	<input type="radio"/> Có mặt
KTNH0004	Nguyễn Tuấn Ninh	<input checked="" type="radio"/> Vắng	<input type="radio"/> Có mặt

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Figure 107. Submit daily report screen

UC ID and Name:	UC-90_Submit Daily Report		
Created By:	PhucND	Date Created:	2/Sept/2024
Primary Actor:	Staff	Secondary Actors:	Supervisor
Trigger:	A staff member decides to submit their daily report.		

Description:	Staff marks daily for students in a selected class. Students not marked as "Present" remain as "Absent" by default.
Preconditions:	PRE-1 Daily daily reports for the course must exist. PRE-2 The user account has been authorized to perform the function.
Postconditions:	POST-1: The daily report is updated with marked daily data.
Normal Flow	<p>90.0 Submit report</p> <ol style="list-style-type: none"> 1. Users access this page through the “Điểm danh” button in the dashboard area on the left side of the page. 2. Users select a specific class and date and click “Điểm danh”. 3. Users mark each student as "Present" or "Absent." 4. Staff clicks "Lưu" to save the report.
Alternative Flows:	N/A
Exceptions:	<p>90.0.E1 Submit fails</p> <ol style="list-style-type: none"> 1. The system fails to save the report. 2. The system displays: "Điểm danh lỗi. Thử lại"
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-07, BR-27, BR-29, BR-34
Other Information:	The time to load the screen is less than 3 seconds.
Assumptions:	- All students are pre-listed in the system for the selected class before daily marking begins.

Table 97: Submit daily report function description

3.11.3. View Daily Report Details

Mã học sinh	Họ và tên	Vắng	Có mặt	Ghi chú
KTNH0001	Nguyễn Xuân Hậu	<input type="radio"/> Vắng	<input checked="" type="radio"/> Có mặt	
KTNH0002	Đỗ Thị Thanh Thúy	<input type="radio"/> Vắng	<input checked="" type="radio"/> Có mặt	
KTNH0003	Nguyễn Duy Phúc	<input type="radio"/> Vắng	<input checked="" type="radio"/> Có mặt	
KTNH0004	Nguyễn Tuấn Ninh	<input type="radio"/> Vắng	<input checked="" type="radio"/> Có mặt	

Made by G51 Team

Figure 108. View report list detail screen

UC ID and Name:	UC-91_View Report Details		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Staff, Supervisor, Manager	Secondary Actors:	Secretary
Trigger:	The actor wants to view detailed information about a specific daily daily report.		
Description:	The actor views detailed daily information for a specific class on a specific date. The details include the student list, daily status (Present/Absent), and any additional comments.		

Preconditions:	PRE-1 Daily reports for the course must exist. PRE-2 The user account has been authorized to perform the function.
Postconditions:	POST-1 The system displays the full details of the selected report.
Normal Flow	<p>91.0: View Report Details</p> <ol style="list-style-type: none"> 1. Users access this page through the “Điểm danh” button in the dashboard area on the left side of the page. 2. Users select a specific class and date and click the “Xem” button next to the report. 3. The system retrieves the detailed information for the selected report 4. If user is manager, click on “Đã xem” button to mark the daily report as read
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-27, BR-28, BR-34, BR-35
Other Information:	The time to load the screen is less than 3 seconds.
Assumptions:	- The system already has all the report data, and this data is stored and retrieved accurately.

Table 98: View report list detail function description

3.11.4. Request opening report

Điểm danh chánh Trí ngày 07/10/2024

Mã học sinh	Họ và tên	Vắng	Có mặt	Ghi chú
KTNH0001	Nguyễn Xuân Hậu	<input type="radio"/>	<input checked="" type="radio"/>	
KTNH0002	Đỗ Thị Thanh Thuỷ	<input type="radio"/>	<input checked="" type="radio"/>	
KTNH0003	Nguyễn Duy Phúc	<input type="radio"/>	<input checked="" type="radio"/>	
KTNH0004	Nguyễn Tuấn Ninh	<input type="radio"/>	<input checked="" type="radio"/>	

Yêu cầu sửa

Figure 109. Request opening report screen

UC ID and Name:	UC-92_Request opening report		
Created By:	HauNX	Date Created:	25/Sept/2024
Primary Actor:	Staff	Secondary Actors:	Secretary, Manager
Trigger:	The actor wants to request for reopening daily reports when the time is overdue.		
Description:	The actor requests for reopening daily reports in the system, so that the actor can edit the report after the report is overdue		

Preconditions:	<p>PRE-1 Daily reports for the course must exist.</p> <p>PRE-2 The user account has been authorized to perform the function.</p> <p>PRE-3 Users must log in to the system.</p>
Postconditions:	POST-1: The list of daily reports is displayed based on the specified conditions.
Normal Flow	<p>92.0 Request opening daily report</p> <ol style="list-style-type: none"> 1. Users access this page through the “Điểm danh” button in the dashboard area on the left side of the page. 2. The page will display a list of daily reports generated for all classes in the selected course. 3. The actor clicks on the report that is overdue 4. The actor clicks the “Yêu cầu sửa” button
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-26, BR-28, BR-32
Other Information:	<ul style="list-style-type: none"> - The time to load the screen is less than 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - The list is displayed in ascending order of the report date by default

Table 99: View daily report list function description

3.11.5. Reopen daily report

Điểm danh chánh Trí ngày 07/10/2024

	Mã học sinh	Họ và tên	Vắng	Có mặt	Ghi chú
	KTNH0001	Nguyễn Xuân Hậu	<input type="radio"/> Vắng	<input checked="" type="radio"/> Có mặt	
	KTNH0002	Đỗ Thị Thanh Thúy	<input type="radio"/> Vắng	<input checked="" type="radio"/> Có mặt	
	KTNH0003	Nguyễn Duy Phúc	<input type="radio"/> Vắng	<input checked="" type="radio"/> Có mặt	
	KTNH0004	Nguyễn Tuấn Ninh	<input type="radio"/> Vắng	<input checked="" type="radio"/> Có mặt	

Cho phép sửa

Made by G51 Team

Figure 110. Reopen daily report screen

UC ID and Name:	UC-93_Reopen report		
Created By:	HauNX	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Staff
Trigger:	The actor wants to reopen daily reports when the time is overdue.		
Description:	The actor reopens daily reports in the system, so that the staff can edit the report after the report is overdue		

Preconditions:	PRE-1 Daily reports for the course must exist. PRE-2 The user account has been authorized to perform the function. PRE-3 Users must log in to the system.
Postconditions:	POST-1: The list of daily reports is displayed based on the specified conditions.
Normal Flow	<p>93.0 Open a daily report</p> <ol style="list-style-type: none"> 1. Users click on the notifications icon and click on the “Request to open a report” notification 2. The system displays the daily report that needs modified 2. The actor clicks the “Cho phép sửa” button
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-26, BR-28, BR-32
Other Information:	- The time to load the screen is less than 3 seconds.
Assumptions:	- The list is displayed in ascending order of the report date by default

Table 100: View daily report list function description

3.11.6. Mark as read

C COLOANPAGODA

DANH MỤC

- Trang chủ
- Danh sách khoá tu
- Ban
- Chánh
- Khóa sinh
- Tỉnh nguyên viên
- Huynh trưởng
- Trực đêm
- Điểm danh
- Danh sách người dùng
- Homepage
- Feedback

☰

Điểm danh chánh Trí ngày 07/10/2024

Chánh	Ngày	Người nộp
Trí	07 / 10 / 2024	HauNX

Mã học sinh	Họ và tên	Vắng	Có mặt	Ghi chú
KTNH0001	Nguyễn Xuân Hậu	<input type="radio"/>	<input checked="" type="radio"/>	
KTNH0002	Đỗ Thị Thanh Thuý	<input type="radio"/>	<input checked="" type="radio"/>	
KTNH0003	Nguyễn Duy Phúc	<input type="radio"/>	<input checked="" type="radio"/>	
KTNH0004	Nguyễn Tuấn Ninh	<input type="radio"/>	<input checked="" type="radio"/>	

Đánh dấu đã đọc

Made by GS1 Team

Thanh Thúy

Figure 111. Mark as read screen

UC ID and Name:	UC-94 Mark as read		
Created By:	HauNX	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Staff
Trigger:	The actor wants to mark report as read		
Description:	The actor marks a report as read, so that he or she can know that what reports are read		
Preconditions:	PRE-1 Daily reports for the course must exist and be submitted.		

	PRE-2 The user account has been authorized to perform the function. PRE-3 Users must log in to the system.
Postconditions:	POST-1: The daily report is changed to read status
Normal Flow	<p>94.0 Mark as read</p> <ol style="list-style-type: none"> 1. Users access to the daily report list (see 94.1) 2. User clicks at a report 3. The user clicks the “Đánh dấu đã đọc” button
Alternative Flows:	<p>94.1 Mark night shift report as read</p> <ol style="list-style-type: none"> 1. User accesses to the night shift list 2. User clicks on a night shift (continue to 94.0 at step 3)
Exceptions:	N/A
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-111
Other Information:	- The time to load the screen is less than 3 seconds.
Assumptions:	The mark as read button can be only displayed when the report is submitted

Table 101: Mark as read description

3.12 Feedback management

3.12.1 Submit Feedback

The screenshot shows the 'Gửi phản hồi' (Submit Feedback) page. At the top, there are navigation links: COLOANPAGODA, Trang chủ, Bài đăng, Đăng kí, and Phản hồi. The 'Phản hồi' link is highlighted. Below the navigation is a search bar with 'Nhập mã học sinh' and 'Chọn khóa tu' dropdowns, both currently set to 'Đã khóa'. A large text area labeled 'Ghi chú' is present. At the bottom left is a reCAPTCHA field with the text 'I'm not a robot'. On the right side, there is a 'Gửi' (Send) button. The footer contains the COLOANPAGODA logo, copyright information (Copyright © 2024 Capstone_G51 All rights reserved), and a sidebar with links: Trang chủ, Bài đăng, Hướng dẫn đăng kí, Phản hồi, and Đăng kí khóa tu. It also includes a 'Tim hiểu thêm' (Search) section and a 'Liên hệ' (Contact) section with a phone number (0969 583 865).

Figure 112. Submit feedback screen

UC ID and Name:	UC-95_Submit Feedback		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Guest (Parent)	Secondary Actors:	System
Trigger:	A parent wants to share their feedback about their child's experience.		
Description:	Parents submit feedback regarding their child's experience in the summer course. The feedback includes detailed comments about the program and any suggestions for improvement.		
Preconditions:	PRE-1: The parent has access to the website's feedback form. PRE-2: The parent must correctly complete and submit the feedback form.		

Postconditions:	POST-1: The feedback is saved in the system.
Normal Flow	<p>95.0 Submit Feedback</p> <ol style="list-style-type: none"> 1. The parent accesses the feedback form through the homepage of the website. 2. The parent can fill in the required fields (e.g., Mã học sinh, chi tiết phản hồi....). 3. The parent submits the feedback.(See 95.0.E1, 95.0.E2) 4. The system saves the feedback and displays a success message.
Alternative Flows:	N/A
Exceptions:	<p>95.0.E1: Student code is not valid.</p> <ol style="list-style-type: none"> 1. If no student code matches, the system displays: “Không có kết quả phù hợp.” <p>95.0.E2: Student hasn't finished the class yet.</p> <ol style="list-style-type: none"> 1. If student hasn't finished the class, the system displays: “Không thể feedback.”
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	BR-36, BR-79, BR-80, BR-81, BR-82, BR-83, BR-84, BR-85, BR-86
Other Information:	The system must load and display the feedback list in less than 3 seconds.
Assumptions:	<ul style="list-style-type: none"> - Feedback data is stored in a database. - The feedback list is sorted by default with the latest submission displayed first.

Table 102: Submit feedback function description

3.12.2 View Feedback List

Figure 113. View feedback list screen

UC ID and Name:	UC-96_View Feedback List		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Staff, Supervisor,Guest
Trigger:	The user initiates the process by accessing the feedback management page to view feedback details.		
Description:	The user views a list of feedback submitted by parents regarding their children's experience in the summer course. The user can search, filter, sort, and view specific feedback details		
Preconditions:	PRE-1 The user must log in to the system. PRE-2 The user account must be authorized to perform the function.		

Postconditions:	POST-1 The system displays the feedback list based on search, filter, or sort criteria.
Normal Flow	<p>96.0 View Feedback List without search or filter</p> <ol style="list-style-type: none"> 1. The primary actor (manager) navigates to the feedback management page through the sidebar menu.(See 96.1) 2. The system loads and displays the feedback list, sorted by the latest submission date by default.
Alternative Flows:	<p>96.1 View Feedback List with search or filter</p> <ol style="list-style-type: none"> 1. The primary actor enters search terms or applies filtering options (e.g.,Tên khóa tu, ngày bắt đầu, ngày kết thúc...). 2. The system processes the filtering criteria and displays the relevant feedback.(See 96.0.E1)
Exceptions:	<p>96.0.E1: No Matching Feedback Found.</p> <ol style="list-style-type: none"> 1. If no feedback matches the search or filter criteria, the system displays: “Không có kết quả phù hợp.”
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-36, BR-79, BR-82, BR-83
Other Information:	<ul style="list-style-type: none"> - The form submission process must be completed within 2 seconds.
Assumptions:	<ul style="list-style-type: none"> - Feedback data is stored in a database.

Table 103: View feedback list function description

3.12.3 View Feedback Details

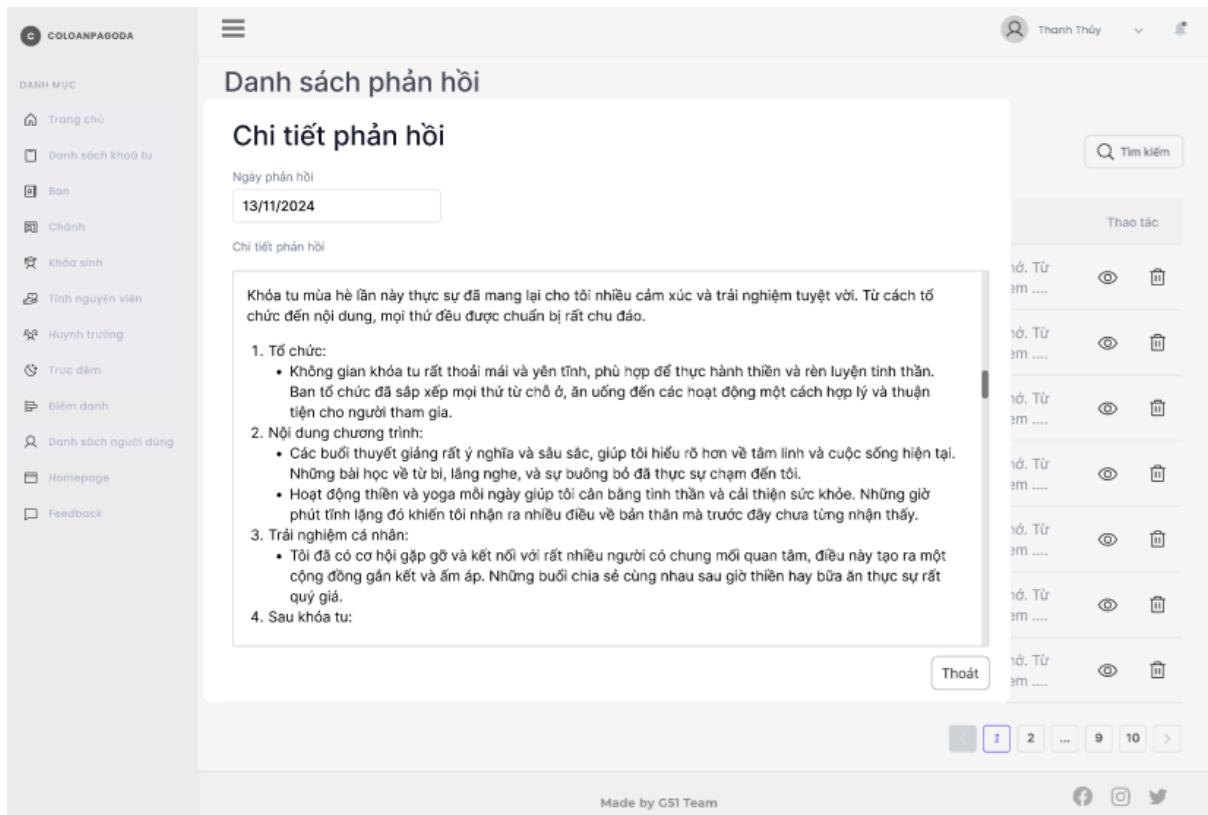


Figure 114. View Feedback Details screen

UC ID and Name:	UC-97_View Feedback Details		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	Staff
Trigger:	The manager or staff selects a feedback entry to view its full details.		
Description:	The user views the complete feedback information, including detailed comments from parents.		
Preconditions:	PRE-1 The user must log in to the system. PRE-2 The user account must be authorized to perform the function. PRE-3 The feedback must exist in the database.		

Postconditions:	POST-1 Full feedback details are displayed.
Normal Flow	<p>97.0 View Feedback Details from feedback list.</p> <ol style="list-style-type: none"> 1. The user navigates to the feedback management page through the sidebar menu. 2. The system loads and displays the feedback list, sorted by the latest submission date by default. 3. The user clicks on the eye icon in the “Thao tác” column to access the feedback detail of corresponding feedback that they want to see. 4. The system retrieves and displays the full feedback information.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	High
Frequency of Use:	High
Business Rules:	BR-05, BR-14, BR-83
Other Information:	- Feedback details must load within 3 seconds.
Assumptions:	- The system stores feedback accurately.

Table 104 View Feedback Details function description

3.12.4 Delete Feedback

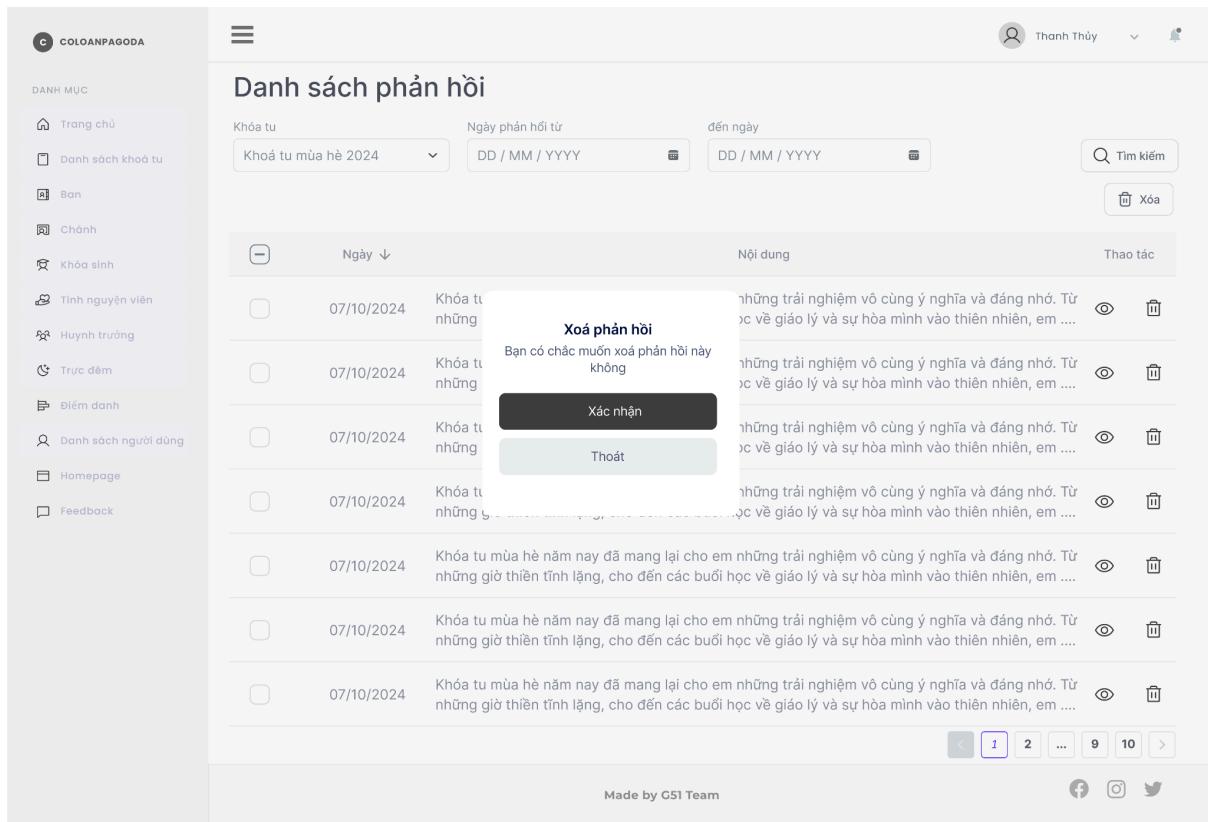


Figure 115. Delete Feedback screen

UC ID and Name:	UC-98_Delete Feedback		
Created By:	PhucND	Date Created:	25/Sept/2024
Primary Actor:	Manager	Secondary Actors:	N/A
Trigger:	The manager decides to remove inappropriate or irrelevant feedback.		
Description:	This use case allows users to feedback course from the system so that the user can delete the feedback when necessary		
Preconditions:	PRE-1 The user must log in to the system. PRE-2 The user account must be authorized to perform the function. PRE-3 The feedback must exist in the database.		

Postconditions:	POST-1 The feedback is removed from the system.
Normal Flow	<p>98.0 Delete feedback in the feedback list.</p> <ol style="list-style-type: none"> 1. The user navigates to the feedback management page through the sidebar menu.(See 98.1) 2. The system loads and displays the feedback list, sorted by the latest submission date by default. 3. The user clicks on the bin icon in the “Thao tác” column to delete the feedback that they want. 4. The system display the popup message “Bạn có muốn xóa feedback này không” 5. The user click “Xác nhận” button. 6. The feedback is removed from the system.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	Medium
Frequency of Use:	Low
Business Rules:	BR-05, BR-36, BR-79, BR-81, BR-83, BR-84
Other Information:	- The system must respond and display the delete popup within 2 seconds.
Assumptions:	- Deletion confirmation must ensure no accidental removal.

Table 105: Delete Feedback function description

4. Non-Functional Requirements

4.1 External Interfaces

4.1.1 User Interfaces

- All texts in the system are displayed in grammatically correct Vietnamese language.

- Whenever the user/admin performs an action that requires connection to the server, a loading indicator should appear so that the user knows what's going on and doesn't misunderstand that the service is down.
- There should be a clear alert when the app encounters a server error (e.g. offline).
- All pages should have a consistent visual theme and typeface.
- Icons and buttons should have tooltips or labels to assist users in understanding their functions.
- Users can copy and paste content using both the mouse and key combinations, enhancing the convenience of operation.
- Notifications displayed on the screen will have an easy-to-see notification frame, with clear content for users to quickly grasp.
- The interface must be compatible with popular browsers such as Chrome, Firefox, Microsoft Edge.
- The UI must be responsive on different size of screen
- The system must ask for confirmation (Y/N) for data deletion operations and bulk operations.
- The entire drop down list must be arranged in A to Z order and ascending numbers, for night shift workers, arranged in order of priority.
- When the user is in a certain function, the position of this function on the navigation bar (sidebar) will be highlighted, making it easy for users to know where they are in the system

4.1.2 Software Interfaces

- The system uses Gmail Service to send mails for users
- The system also uses SignalR to send notifications to users

4.2 Quality Attributes

4.2.1 Usability

- The system has a user-friendly interface. A non-trained new user can understand and use the system proficiently and do the tasks they want with the accuracy of 90% in 2 hours.
- Users provided with a 2-hour training session shall demonstrate proficiency by completing all tasks the user wants.

- The system must have clear labels and buttons. All links and buttons must be clearly displayed and easily understood. Users should comprehend their functions within 10 seconds.
- The system uses consistent icons, colors, fonts, and terminology throughout the system to avoid user confusion.

4.2.2 Security

- The system shall require users to authenticate using a unique username and a strong password that meets complexity requirements (minimum 8 characters, including uppercase letters, lowercase letters, numbers, and special characters).
- All the password of the users are encrypted
- When a user requests a password reset, the system shall send a verification code to the user's registered email.
- The system shall validate all user inputs to prevent injection attacks.
- Ensure only authorized users can access the corresponding functions and data. The system shall implement token-based authentication (JSON Web Tokens - JWT) to manage user sessions securely and efficiently.

4.2.3 Performance

- All web pages shall load completely within 5 seconds over a standard broadband connection (10 Mbps) under normal load conditions.
- The system shall retrieve and display requested data (e.g., course lists, user profiles) within 4 seconds after a query is submitted.

5. Requirement Appendix

5.1 Business Rules

ID	Rule Definition
BR-01	The course must have a valid start and end date.
BR-02	The application opening and closing dates must be within the duration of the course.
BR-03	The estimated number of students must be a positive integer.
BR-04	Any date changes must be validated to ensure they are within a reasonable range.
BR-05	Users must log in with valid credentials (username and password) to access the application.

BR-06	A course cannot be deleted once the start date has been reached and there is at least one registration.
BR-07	When the course is locked, the course cannot accept new registrations or report until it is unlocked.
BR-08	Students must have good conduct and good academic performance to be eligible for admission to the cultivation course
BR-09	Students must be between the ages of 8-17 to be admitted to the cultivation course
BR-10	National ID must be 12 digits
BR-11	Phone number must be 10 digits, starting with 03, 03, 07, 08 or 09
BR-12	Passwords must have a minimum length of 8 characters and a maximum of 32 characters, must contain at least 1 uppercase letter, 1 lowercase letter, 1 number and 1 special character.
BR-13	All login credentials must be transmitted securely using SSL/TLS encryption to prevent interception.
BR-14	The system must grant access to features based on the user's role (System Admin, Manager, Staff, Team Leader, Supervisor, Secretary, Guest).
BR-15	When a user logs out, the system must terminate the active session immediately to prevent further access.
BR-16	Password reset links must be securely transmitted via email using SSL/TLS encryption.
BR-17	Input fields must be validated when the user updates profile information, ensuring that the email format is correct and required fields are filled.
BR-18	All passwords must be securely hashed before being saved in the database.
BR-19	Each email must be unique and not associated with any existing account. The system must verify that the email is valid and not already in use.
BR-20	The system must automatically generate a unique username for each new account to ensure no duplication.

BR-21	Only authorized users can view and change user account statuses.
BR-22	The system must display a confirmation dialog before changing a user's status. If confirmed, the status is updated; if canceled, no changes are made.
BR-23	Only authorized managers and Secretary can accept/ reject student registration.
BR-24	Only authorized managers and Secretary can accept/ reject volunteer registration.
BR-25	Only authorized Manager can assign registration for secretary
BR-26	Daily reports must be generated automatically for each class based on the course's start and end dates.
BR-27	A student cannot be marked as "Present" unless the report for that specific day and class exists in the system.
BR-28	Daily reports for a locked course can only be viewed but not edited or deleted.
BR-29	Students' default daily status in a new report is "Absent" until marked otherwise by authorized users.
BR-30	Only Managers or Secretaries can unlock a course to allow modifications to reports.
BR-31	Daily reports cannot be deleted if they are associated with a course that has already ended.
BR-32	The system must allow filters for searching daily reports by multiple criteria (e.g., date, status, student name, course name).
BR-33	Students marked as "Absent" for more than three consecutive days must trigger an alert to the assigned Supervisor.
BR-34	Each daily report must include timestamps indicating when the daily was last updated and by whom.
BR-35	Supervisors can only view daily reports for classes under their supervision.

BR-36	Posts must be sorted by the latest creation date by default.
BR-37	The system must limit the number of posts displayed per page to optimize loading time.
BR-38	Filters and search criteria must persist until reset by the user.
BR-39	All uploaded images or files must comply with system-defined size and format restrictions (e.g., max 5MB, jpg/png).
BR- 40	Posts cannot be deleted if they are referenced by other critical functions (e.g., reports or notifications).
BR-41	Supervisors must be uniquely identifiable by their name and email in the system.
BR-42	Supervisors can only be assigned to a single student group at a time.
BR-43	Supervisors cannot be deleted if they are currently assigned to an active student group.
BR-44	Only managers and secretaries have permissions to add, delete, or assign supervisors.
BR-45	The system must ensure balanced workloads when automatically assigning supervisors to student groups.
BR-46	A supervisor must not be assigned to more groups than the system's maximum group capacity per role.
BR-47	All operations (add, delete, assign) must log changes in the system for audit purposes.
BR-48	The system must display a confirmation dialog before removing a supervisor.
BR-49	Supervisors must receive notifications upon successful assignment to a student group.
BR-50	Auto-assignment logic must prioritize supervisors based on workload balance.

BR-51	Users must log in with valid credentials to access the system.
BR-52	Only Managers or Secretaries are authorized to manage student groups (view, edit, add, delete).
BR-53	Student groups must be associated with a valid course and supervisor.
BR-54	Gender selection is mandatory for creating a new student group.
BR-55	Supervisors can only be assigned to groups matching their authorized gender category.
BR-56	A student group cannot be deleted if it has assigned students or active daily reports.
BR-57	Each group name must be unique within the same course.
BR-58	Input validation must ensure the group name is non-empty and contains no special characters.
BR-59	Pagination must be applied when the number of student groups exceeds the page display limit.
BR-60	Supervisors must be pre-registered in the system to be assigned to student groups.
BR-61	Soft delete must be implemented for removing student groups, preserving their data for auditing.
BR-62	Search and filter options must persist until manually reset by the user.
BR-63	Gender-based filters must automatically exclude groups that do not match the selected criteria.
BR-64	The system must display confirmation dialogs for sensitive actions like deleting or updating groups.
BR-65	All student group operations (add, edit, delete) must be logged for auditing purposes.

BR-66	Only authorized users (Manager, Secretary) can manage teams (view, add, edit, delete).
BR-67	Team names must be unique within the same course.
BR-68	Gender selection is mandatory when creating or editing a team.
BR-65	Team leaders can only be assigned to teams matching their gender category.
BR-69	Teams must be associated with a valid course.
BR-70	A team cannot be deleted if it has assigned volunteers or is part of an active event.
BR-71	Soft delete must be implemented for removing teams, preserving their data for auditing purposes.
BR-72	Input validation must ensure the team name is non-empty and contains no special characters.
BR-73	Pagination must be applied when the number of teams exceeds the page display limit.
BR-74	Search and filter options must persist until manually reset by the user.
BR-75	Gender-based filters must automatically exclude teams that do not match the selected criteria.
BR-76	The system must display confirmation dialogs for sensitive actions like deleting or updating teams.
BR-77	All team operations (add, edit, delete) must be logged for auditing purposes.
BR-78	Feedback must be associated with a valid and existing student record in the system.
BR-79	Feedback can only be submitted for students who have completed the course.
BR-80	Once submitted, feedback cannot be modified by the parent.

BR-81	Feedback must be time stamped for tracking and sorting purposes.
BR-82	Feedback data must be securely transmitted and stored using encryption standards
BR-83	The system must display confirmation messages after feedback submission.
BR-84	Feedback cannot exceed a predefined length (e.g., 1000 characters) for comments to ensure concise data.
BR-85	The feedback form must validate student codes before submission.
BR-86	The feedback form must validate student codes before submission.
BR-87	Only authorized users (Manager, Secretary) can manage rooms (view, add, edit, delete).
BR-88	Room names must be unique within the same course.
BR-89	Gender selection is mandatory when creating or editing a room.
BR-90	A room cannot be deleted if it is assigned to active students or night shifts.
BR-91	Input validation must ensure the room name is non-empty and contains no special characters.
BR-92	Room capacity must be a positive integer and within predefined limits.
BR-93	The system must display confirmation dialogs for sensitive actions like deleting or updating rooms.
BR-94	Only authorized users (Manager, Secretary) can manage night shifts (view, add, edit, delete).
BR-95	Night shifts must have unique start and end times within the same course.
BR-96	Night shift assignments must be linked to valid rooms and staff members.
BR-97	Input validation must ensure all fields (e.g., start time, end time, room) are properly filled.

BR-98	Night shifts cannot overlap within the same room.
BR-99	The system must log all changes (add, edit, delete) for auditing purposes.
BR-100	Night shifts can only be edited or deleted if they haven't started yet.
BR-101	The system must display confirmation dialogs for sensitive actions like deleting or updating shifts
BR-102	A valid reason must be provided for all decline requests.
BR-103	Managers must be notified of all decline requests.
BR-104	Decline requests must include a reason and current status.
BR-105	Managers must assign another staff member when approving a decline request.
BR-106	Filters must operate only on the selected retreat or criteria when viewing registrations.
BR-107	Notifications for decline requests must link directly to the respective request details.
BR-108	Notifications for decline requests must link directly to the respective request details.
BR-109	The shift to be declined must be at least 3 days after the current date.
BR-110	There is only one course which is active at a time.
BR-111	The report must be submitted before being marked as read.
BR-112	Student's result can only be displayed in the course course which is opened.
BR-113	The volunteers are divided according genders.
BR-114	Only team leader is divided according to genders.
BR-115	When a team is deleted, the volunteers in that team are no longer in any team.
BR-116	Volunteer can only register with the course during the application period.

BR-117	Only people who is over 18 can apply to be volunteer
BR-118	The list of the posts must be display by date

Table 106: Business Rules

5.2 Application Messages List

#	Message code	Message Type	Content
1	MSG_01	Notification	Tên khóa tu là bắt buộc
2	MSG_02	Notification	Trường này là bắt buộc
3	MSG_03	Notification	Định dạng ngày không hợp lệ
4	MSG_04	Notification	Ngày không hợp lệ
5	MSG_05	Notification	Giá trị không hợp lệ
6	MSG_06	Notification	Số lượng học viên dự kiến phải lớn hơn 0
7	MSG_07	Notification	Ngày bắt đầu phải lớn hơn ngày hiện tại
8	MSG_08	Notification	Ngày kết thúc phải lớn hơn ngày bắt đầu
9	MSG_09	Notification	Ngày bắt đầu phải nằm trong khoảng thời gian của khóa tu
10	MSG_10	Notification	Ngày kết thúc phải nằm trong khoảng thời gian của khóa tu
11	MSG_11	Notification	Ngày bắt đầu đăng ký tình nguyện viên phải trước ngày kết thúc
12	MSG_12	Notification	Ngày bắt đầu đăng ký khóa sinh phải trước ngày kết thúc
13	MSG_13	Notification	Ngày bắt đầu phải sau ngày bắt đầu đăng ký
14	MSG_14	Notification	Ngày bắt đầu phải trước ngày kết thúc
15	MSG_15	Notification	Ngày bắt đầu đăng ký tình nguyện viên phải từ hôm nay trở đi

16	MSG_16	Notification	<i>Ngày bắt đầu đăng ký khóa sinh phải từ hôm nay trở đi</i>
17	MSG_17	Notification	<i>Không có dữ liệu để hiển thị</i>
18	MSG_18	Notification	<i>Họ và tên là bắt buộc</i>
19	MSG_19	Notification	<i>Họ và tên không được vượt quá 100 ký tự</i>
20	MSG_20	Notification	<i>Họ và tên chỉ được chứa chữ cái và khoảng trắng</i>
21	MSG_21	Notification	<i>Tên cha/mẹ là bắt buộc</i>
22	MSG_22	Notification	<i>Tên cha/mẹ không được vượt quá 100 ký tự</i>
23	MSG_23	Notification	<i>Tên cha/mẹ chỉ được chứa chữ cái, dấu tiếng Việt và khoảng trắng</i>
24	MSG_24	Notification	<i>Ngày sinh là bắt buộc</i>
25	MSG_25	Notification	<i>Chỉ khóa sinh từ 8 đến 17 tuổi mới được tham gia</i>
26	MSG_26	Notification	<i>Giới tính là bắt buộc</i>
27	MSG_27	Notification	<i>Số CMND/CCCD là bắt buộc</i>
28	MSG_28	Notification	<i>Số CMND/CCCD phải có độ dài từ 9 đến 12 số và chỉ chứa ký tự số</i>
29	MSG_29	Notification	<i>Số điện thoại là bắt buộc</i>
30	MSG_30	Notification	<i>Số điện thoại phải là 10 số</i>
31	MSG_31	Notification	<i>Email không hợp lệ</i>
32	MSG_32	Notification	<i>Địa chỉ là bắt buộc</i>
33	MSG_33	Notification	<i>Học lực là bắt buộc</i>
34	MSG_34	Notification	<i>Hạnh kiểm là bắt buộc</i>
35	MSG_35	Notification	<i>Ảnh thẻ là bắt buộc</i>
36	MSG_36	Notification	<i>Kích thước ảnh tối đa là 5MB</i>
37	MSG_37	Notification	<i>Chỉ chấp nhận các định dạng .jpg, .jpeg, .png</i>
38	MSG_38	Notification	<i>Ảnh mặt trước CCCD là bắt buộc</i>

39	MSG_39	Notification	<i>Ảnh mặt sau CCCD là bắt buộc</i>
40	MSG_40	Notification	<i>Thêm nhân viên thành công!</i>
41	MSG_41	Notification	<i>Xóa ca trực thành công!</i>
42	MSG_42	Notification	<i>Cập nhật nhân viên thành công!</i>
43	MSG_43	Notification	<i>Cập nhật khóa tu thành công</i>
44	MSG_44	Notification	<i>Cập nhật trạng thái thành công</i>
45	MSG_45	Notification	<i>Kết thúc khóa tu</i>
46	MSG_46	Notification	<i>Xóa thành công</i>
47	MSG_47	Notification	<i>Cập nhật thông tin bài đăng thành công!</i>
48	MSG_48	Notification	<i>Cập nhật thông tin khóa học thành công</i>
49	MSG_49	Notification	<i>Cập nhật thông tin sinh viên thành công</i>
50	MSG_50	Notification	<i>Cập nhật thư ký thành công</i>
51	MSG_51	Notification	<i>Cập nhật nhóm thành công</i>
52	MSG_52	Notification	<i>Nộp báo cáo thành công!</i>
53	MSG_53	Notification	<i>Đã mở lại báo cáo</i>
54	MSG_54	Notification	<i>Yêu cầu mở lại đã được gửi thành công!</i>
55	MSG_55	Notification	<i>Thêm tình nguyện viên vào ban thành công!</i>
56	MSG_56	Notification	<i>Xóa tình nguyện viên thành công!</i>
57	MSG_57	Notification	<i>Cập nhật thông tin người dùng thành công!</i>
58	MSG_58	Notification	<i>Cập nhật thư ký thành công</i>
59	MSG_59	Notification	<i>Cập nhật ban thành công</i>
60	MSG_60	Notification	<i>Đổi mật khẩu thành công</i>
61	MSG_61	Notification	<i>OTP đã được gửi đến email của bạn.</i>
62	MSG_62	Notification	<i>OTP xác minh thành công.</i>
63	MSG_63	Notification	<i>Có lỗi xảy ra</i>

64	MSG_64	Notification	<i>Cập nhật trạng thái thất bại</i>
65	MSG_65	Notification	<i>Cập nhật thư ký thất bại</i>
66	MSG_66	Notification	<i>Đã có lỗi xảy ra khi cập nhật thông tin.</i>
67	MSG_67	Notification	<i>OTP không hợp lệ hoặc đã hết hạn.</i>
68	MSG_68	Notification	<i>Không thể gửi OTP.</i>
69	MSG_69	Notification	<i>Xóa phản hồi thất bại</i>
70	MSG_70	Notification	<i>Đã xảy ra lỗi khi xóa bài đăng</i>
71	MSG_71	Notification	<i>Vui lòng chọn ít nhất một khoảng thời gian để cập nhật.</i>
72	MSG_72	Notification	<i>Tạo bài đăng thất bại!</i>
73	MSG_73	Notification	<i>Đã xảy ra lỗi khi tạo bài đăng</i>
74	MSG_74	Notification	<i>Vui lòng chọn khóa sinh để in thẻ</i>
75	MSG_75	Notification	<i>Không thể tải file mẫu.</i>
76	MSG_76	Notification	<i>Đã xảy ra lỗi khi gửi email</i>
77	MSG_77	Notification	<i>Duyệt đơn thất bại</i>
78	MSG_78	Notification	<i>Không thể xóa chánh của khóa tu đã kết thúc.</i>

Table 107: Application Messages