

CAPSTONE PROJECT REPORT

UniCEC – University Club's Events and Competitions Platform

UniCEC Team	
Group Members	Nguyễn Đình Trung – SE140309 Vũ Lâm Huy – SE140164 Tạ Minh Nhật – SE140165 Nguyễn Tiến Anh – SE140215
Supervisor	Nguyễn Thế Hoàng
Capstone Project Code	SU22SE33

– Ho Chi Minh, September 2022 –

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Last but not the least, we would like to thank our family for giving birth to us at the first place and supporting us spiritually during 4 years in FPT university and our life.

Definition and Acronyms

Name	Definition
UniCEC	University Club's Events and Competitions Platform
SeedsPoint	A reward points of system. Using to exchange gift
BR	Business Rule
FE	Feature
LI	Limitation and Exclusion
WBS	Work Breakdown Structure
UX/UI	User Experience/User Interface
ERD	Entity Relationship Diagram
API	Application Programming Interface
SRS	Software Requirements Specification
DB	Database
IDE	Integrated Development Environment
UML	Unified Modeling Language
UC	Use Case
HTTP	Hypertext Transfer Protocol

Table 1. Definition and Acronyms

I. Project Introduction

1. Overview

1.1 Project Information

- Project name: **University Club's Events and Competitions Platform**
- Project code: **SU22SE33**
- Group name: **GSU22SE14**
- Software type: Web Application, Mobile Application

a. Supervisor

Full Name	Email	Phone Number	Title
Nguyễn Thế Hoàng	hoangnt@fe.edu.vn	0986628525	Lecturer

Table 2. Supervisor

b. Team Members

Full Name	Email	Phone Number	Role
Nguyễn Đình Trung	trungndse140309@fpt.edu.vn	0909445614	Leader
Vũ Lâm Huy	huyvlse140164@fpt.edu.vn	0332875176	Member
Tạ Minh Nhật	nhattmse140165@fpt.edu.vn	0964787422	Member
Nguyễn Tiến Anh	anhntse140215@fpt.edu.vn	0818037707	Member

Table 3. Team members

2. Product Background

Along with the development of the student network of FPT University in general and other universities in recent times, the need for connection, especially participate in activities, events, competitions of students are increasing. Students nowadays are increasingly actively looking for activities with the need to expand relationships, improve soft skills, share and learn professional knowledge. However, current events, activities, and competitions in universities are communicated sporadically within or on each fan-page of clubs, organizations, and units, making it difficult for students to catch the opportunity to participate.

Receiving the request and need in tracking, learning, registering, and participating in events and contests among students, from there, we came up with the idea to build a common platform. On

this platform, clubs and groups will post information about competitions, events and students will have many opportunities to monitor, choose and register for themselves, for the group to participate in the event. The competition is consistent with development goals in the right direction. And above all, the platform will help event managers easily capture information, track and manage student activities. At the same time, for the club, we provide a platform for members to divide their work, manage competitions and events quickly and clearly. For sponsors, we provide a place where they can see events and competitions that match the company's criteria, so they can make the right choices for sponsorship.

3. Existing Systems

3.1 Ybox.vn

Description: Update information sources, attractive, daily for students and young people: Recruitment - Scholarships - Start-ups - Competitions - Events - Skills

Advantages:

- There are various information on the web
- Trusted and used by quite a lot of people

Disadvantages:

- Too much news in a messy way in one screen
- It is difficult to recognize outstanding information
- Key information is presented like other information, so it's difficult to focus on what you're looking for

Conclusion: this application comes with a solution of environment protection by garbage sorting, and it is also very convenient for tracking the route of garbage truck. On the other hand, garbage sorting must be sorted by ourselves, and it take a lot of work. Besides that, it is not suitable for people who are not well versed in technology and smartphones.

More information of the application can be found at: <https://ybox.vn/>

4. Business Opportunity

Understand the needs of students when researching and participating in university activities. The research team has found limitations when not having access to the information and format of competitions and events at the school. Based on the students' experiences in the learning process, and the teachers' concerns in the teaching process. Having an online information

management platform is essential. This innovation will make contests and events much closer to college students.

The main audience of this platform is students at universities. The team researched and found out the issues they had encountered, including specific information about activities at the school, forms of participation, participation requirements, duration of activities, etc.

5. Software Product Vision

Help university students have a different view of the different activities of the school. Students will experience the best features, helping to find the right content for them more quickly and directly. By accessing the website free and fast, students will not spend too much time going directly to the school or club asking for information. This platform saves time and faculty members can also keep track of event trends, helping students achieve the results they want.

Furthermore, the school administration can also moderate and monitor activities within the educational sphere at the university. Since then, student management has been tighter and more connected.

6. Project Scope & Limitations

6.1 Major Features

A. Website Application

- FE-01: Club Manager can manage competition in a club
- FE-02: Club Manager can manage event in a club
- FE-03: Club Manager can manage activity of competition and event
- FE-03: Club Manager can manage round in a competition
- FE-04: Club Manager can manage match in a round
- FE-05: Club Manager can manage result of match, round and competition
- FE-06: Club Manager can manage member of a club
- FE-07: Club Manager can manage seedpoints
- FE-08: University Admin can manage club of a university
- FE-09: University Admin can manage department of a university
- FE-010: University Admin can manage competition & event is waiting to approve in a university
- FE-11: System Admin can manage university
- FE-12: System Admin can manage account
- FE-13: System Admin can manage major

B. Mobile Application

- FE-14: Participant/Member can manage competition and event participated
- FE-15: Member can manage activity of competition and event assigned
- FE-16: Member/ Student can manage seed points
- FE-17: Participant can manage their team
- FE-18: Participant can view result of match, round, competition participated

6.2 Limitations & Exclusions

- LI-01: UniCEC cannot work without internet connection.
- LI-02: UniCEC does not manage club
- LI-03: Exam uploading is not supported
- EX-01: UniCEC does not support exchange seedpoints
- EX-02: UniCEC does not support exchange of seedpoints in reality

II. Project Management Plan

1. Overview

1.1 UniCEC & Estimation

#	WBS Item	Complexity	Est. Effort (man-days)
1	<i>Training Plan</i>		44
1.1	Learn .Net core	Complex	14
1.2	Learn React	Complex	14
1.4	Learn Flutter	Complex	14
1.5	Learn Git, GitHub	Simple	2
2	<i>Web Application For Club Manager</i>		273
2.1	<i>Authentication</i>		
2.1.1	Login	Medium	4
2.1.2	Logout	Simple	2
2.2	<i>Manage Member</i>		
2.2.1	Approve Member	Medium	7
2.2.2	Delete Member	Medium	7
2.2.3	Set role competition manager	Medium	7
2.2.4	Search a member	Complex	10
2.2.5	View a member	Medium	7
2.3	<i>Manage Competition</i>		
2.3.1	Create Competition	Complex	14
2.3.2	Edit a Competition	Medium	7
2.3.3	Delete a Competition	Medium	5
2.3.4	Search a Competition	Medium	7
2.3.5	View competition detail	Medium	10
2.4	<i>Manage Event</i>		
2.4.1	Create Event	Complex	14
2.4.2	Edit a Event	Medium	7

2.4.3	Delete a Event	Medium	5
2.4.4	Search a Event	Medium	7
2.4.5	View event detail	Medium	10
2.5	<i>Manage Sponsor</i>		
2.5.1	Add a Sponsor	Medium	10
2.5.2	Delete a Sponsor	Medium	5
2.6	<i>Manage Influencer</i>		
2.6.1	Add a Influencer	Medium	10
2.6.2	Delete a influencer	Medium	5
2.7	<i>Manage co-operator</i>		
2.7.1	Add a co-operator	Medium	10
2.7.2	Delete a co-operator	Medium	5
2.8	<i>Manage Team</i>		
2.8.1	View teams	Medium	5
2.8.2	View team detail	Medium	5
2.9	<i>Manage Club</i>		
2.9.1	Edit club	Medium	7
2.10	<i>Manage Competition Round</i>		
2.10.11	Create Competition Round	Medium	7
2.10.12	Edit a Competition Round	Medium	7
2.10.13	Delete a Competition Round	Medium	5
2.11	<i>Manage Competition Activity</i>		
2.11.1	Create Competition Activity	Medium	7
2.11.2	Edit Competition Activity	Medium	10
2.11.3	Delete Competition Activity	Medium	5
2.11.4	View a Competition Activity	Medium	7
2.11.5	Assign a member	Medium	7
2.11.6	Sign out a member	Medium	7
2.11.7	Approve an activity progress	Medium	5
2.12	<i>Manage Competition History</i>		

2.12.1	View History Competition Changing status	Medium	7
2.12.2	View History Event Changing status	Medium	7
3	<i>Web Application for Admin University</i>		105
3.1	<i>Authentication</i>		
3.1.1	Login	Medium	4
3.1.2	Logout	Simple	2
3.2	<i>Manage Department</i>		
3.2.1	Create Department	Simple	3
3.2.2	Update Department	Medium	7
3.2.3	Delete Department	Medium	5
3.2.4	Search Department	Medium	7
3.2.5	View Department	Medium	5
3.4	<i>Manage Club</i>		
3.4.1	Create a club	Medium	7
3.4.2	Edit a status club	Medium	5
3.4.3	Delete a club	Medium	5
3.4.4	Search a club	Medium	7
3.4.5	View a club	Medium	7
3.4.6	Set role club manager	Medium	7
3.5	<i>Manage Competition</i>		
3.5.1	Approve a competition	Medium	5
3.5.2	Approve a event	Medium	5
3.5.3	Reject competition	Medium	5
3.5.4	Reject event	Medium	5
3.5.5	View competition detail	Medium	7
3.5.6	View event detail	Medium	7
4	<i>Web Application for System Admin</i>		101
4.1	<i>Manage University</i>		
4.1.1	Create a University	Medium	7
4.1.2	Edit a University	Medium	7

4.1.3	Delete a University	Medium	5
4.1.4	Search a University	Medium	7
4.1.5	View a University	Medium	7
4.2	Manage Account		
4.2.1	Active an account	Medium	7
4.2.2	De-active an account	Medium	7
4.2.3	Search an account	Medium	7
4.2.4	Set role	Medium	7
4.2.5	View an account	Medium	7
4.3	Manage Major		
4.3.1	Create a major	Medium	7
4.3.2	Edit a major	Medium	7
4.3.3	Delete a major	Medium	5
4.3.4	Search a major	Medium	7
4.3.5	View a major	Medium	7
5	Web Application for Guest		28
5.1	Manage published & registered Competition		
5.1.1	View a published & registered competition	Medium	7
5.1.2	Search a published & registered competition	Medium	7
5.2	Manage published & registered Event		
5.2.1	View a published & registered event	Medium	7
5.2.2	Search a published & registered event	Medium	7
6	App Mobile for Member		13
6.1	Authentication		
6.1.1	Login	Medium	4
6.1.2	Logout	Simple	2
6.2	Manage Profile		
6.2.1	Edit a profile	Medium	7
7	App Mobile for Student		126
7.1	Manage published & registered Event		

7.1.1	View a published & registered competition	Medium	7
7.1.2	Search a published & registered competition	Medium	7
7.2	<i>Manage published & registered Event</i>		
7.2.1	View a published & registered event	Medium	7
7.2.2	Search a published & registered event	Medium	7
7.2.3	Participate in competition	Medium	4
7.2.4	Participate in event	Medium	4
7.2.5	Participate in club	Medium	4
7.3	<i>Manage Team</i>		
7.3.1	Create a team	Medium	7
7.3.2	Edit a team	Medium	7
7.3.4	Delete a team	Medium	4
7.3.5	Search a team	Medium	7
7.3.6	Participate in team	Medium	7
7.3.7	View a team	Medium	7
7.3.8	Sign out a team	Medium	4
7.4	<i>Manage Participant In Team</i>		
7.4.1	View a participant	Medium	7
7.4.2	Delete a participant	Medium	4
7.4.3	Set role leader for participant	Medium	4
7.5	<i>Manage Competition Round</i>	Medium	7
7.5.1	View a round	Medium	7
7.5.2	View a result	Medium	7
7.5.3	View seedspoint	Medium	7
8	<i>App Mobile for Club Member</i>		154
8.1	<i>Manage published & registered Event</i>		
8.1.1	View a published & registered competition	Medium	7
8.1.2	Search a published & registered competition	Medium	7
8.2	<i>Manage published & registered Event</i>		
8.2.1	View a published & registered event	Medium	7

8.2.2	Search a published & registered event	Medium	7
8.2.3	Participate in competition	Medium	4
8.2.4	Participate in event	Medium	4
8.2.5	Participate in club	Medium	4
8.3	Manage Team		
8.3.1	Create a team	Medium	7
8.3.2	Edit a team	Medium	7
8.3.3	Delete a team	Medium	4
8.3.4	Search a team	Medium	7
8.3.5	Participate in team	Medium	7
8.3.6	View a team	Medium	7
8.3.7	Sign out a team	Medium	4
8.4	Manage Participant In Team		
8.4.1	View a participant	Medium	7
8.4.2	Delete a participant	Medium	4
8.4.3	Set role leader for participant	Medium	4
8.5	Manage Competition Round		
8.5.1	View a round	Medium	7
8.5.2	View a result	Medium	7
8.5.3	View seedspoint	Medium	7
8.6	Manage Activity Assigned		
8.6.1	View an activity assigned	Medium	7
8.6.2	Search an activities assigned	Medium	7
8.6.3	Update an activities assigned progress	Medium	7
8.6.4	View competition assigned	Medium	7
8.6.5	View an event assigned	Medium	7

Total Estimated Effort (man-days) 844

Table 4. WBS & Estimation

1.2 Project Risks

#	Risk Description	Impact	Possibility	Response Plans
1	Team member drops out	Critical	Low	Reduce scope
2	Technical risks: cannot find the solution for problems	High	Medium	Spend more time researching in the early stage
3	Requirement constantly changes	Critical	High	Choose a software development model that can respond to requirement change.
4	Communication risks: Lack of communication, causing lack of clarity and confusion.	Critical	High	Spend more time on the daily meeting minutes.

Table 5. Project Risks

2. Management Approach

Implementing Scrum - an Agile methodology enables us under a common organization for decision making, allows seeing the product evolve in real-time as we build, adjust, and optimize them.

2.1 Project Process

SCRUM FRAMEWORK

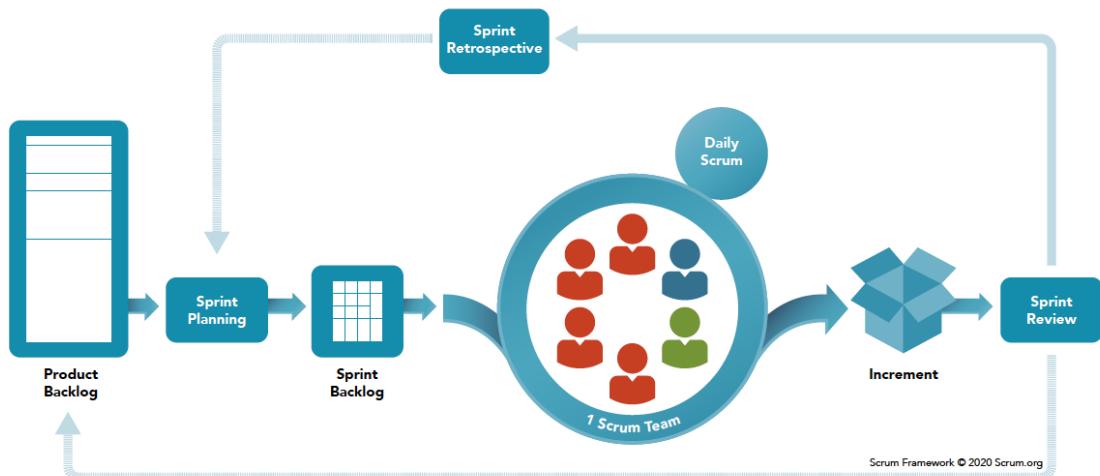


Figure 1. Scrum Framework

Source: <https://www.scrum.org/>

UniCEC is developed using the Scrum model which is an Agile framework for developing, delivering, and maintaining products. Our team chooses this model for the following reasons:

- Because Scrum is suitable for small to medium software, it's fit with our team which consists of four members.
- There are many techniques, technologies and frameworks that our team to learn. Using Scrum can help us to learn and apply simultaneously.
- Each function is assigned to one member who has to complete all steps: design, coding and testing. This helps everyone to understand clearly each function, have ability to work independently.

2.2 Training Plan

Training Area	Participants	When, Duration	Waiver Criteria
C#	Ta Minh Nhat Nguyen Tien Anh	Week 1 – 7 days	Mandatory
.NET	Ta Minh Nhat Nguyen Tien Anh	Week 1 – 7 days	Mandatory
React Hook	Nguyen Dinh Trung Vu Lam Huy	Week 1 – 7 days	Mandatory
Project workflow, Git Management	Everyone	Week 1 – 7 days	Mandatory
Flutter	Everyone	Week 1 – 7 days	Mandatory
Testing	Everyone	Week 1 – 7 days	Mandatory

Table 6. Training Plan

3. Product Management Plan

3.1. Product Backlogs

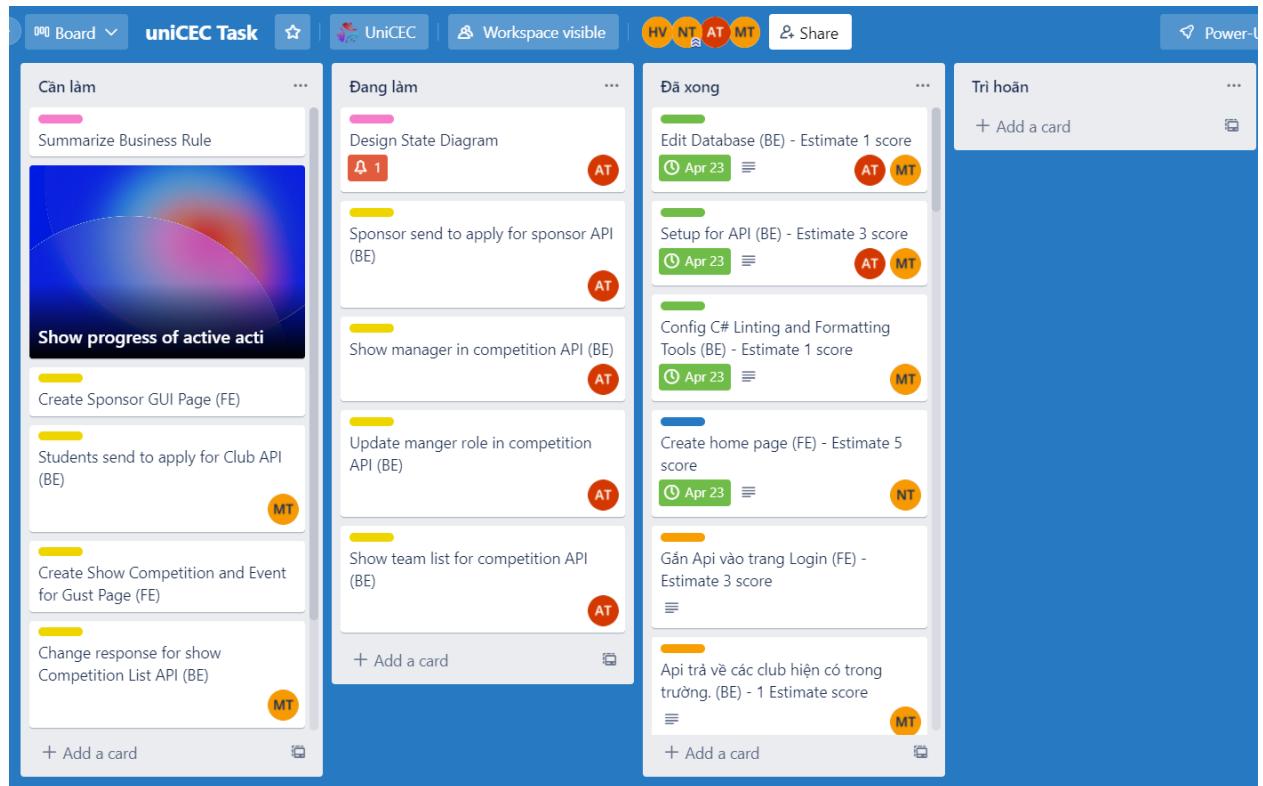


Figure 2. Product Backlog

Product backlog and all task can be found [here](#) or [UniCEC Task Trello](#)

3.2. Quality Management

To increase the project quality and user experience, UniCEC team apply those:

- Do review with user to understand what users wants and their need.

Acceptance testing:

- Do review to understand how user receive the application and collect feedback.
- Based on user's feedback, reviewer, UniCEC team fix bug and update.
- Hold daily meeting to track project progress and support each other.

4. Project Organization

4.1 Team & Structures

Role	Full name
Product Owner	Nguyễn Thế Hoàng
Scrum Master	Nguyễn Đình Trung
Business Analyst	Vũ Lâm Huy
Develop Member	Nguyễn Đình Trung Vũ Lâm Huy Tạ Minh Nhật Nguyễn Tiến Anh

Table 7. Team & Structures

4.2 Roles & Responsibilities

Role	Responsibility
Business Analyst	<ul style="list-style-type: none">Help team finish work by providing advice on technical and business problems.Provide requirements, provide the expectation, and features of the system.Support team in communication.Write a document
Product Owner/ Scrum Master	<ul style="list-style-type: none">Plan schedule for the team.Break the project into tasks and distribute it to team members.Manage and help team members finish tasks properly on time.
Develop Member	<ul style="list-style-type: none">Implement products.Create deliverables for the project.

Table 8. Roles & Responsibilities

5. Project Communication

5.1 Communication Plan

Communication Item	Who/ Target	Purpose	When, Frequency	Type, Tool, Method(s)
Daily Meeting	Team Members	<ul style="list-style-type: none">InternalCommunication	3, 4 times per week	Online

Working in group	Team members	<ul style="list-style-type: none"> • Do remote work • Emergency situation • Knowledge sharing 	3, 4 times per week	Online Offline
Mentoring and support	Team and supervisor	<ul style="list-style-type: none"> • Support in technical • Review works • Give orientation 	2 times per week	Online Offline
Project review	Team member and stakeholders	<ul style="list-style-type: none"> • Review project progress • Review solution • Evaluate result 	2-3 time per week	Online

Table 9. Communication Plan

5.2 External Interface

5.2.1. FU Contacts

Function	Contact Person (name, position)	Contact address (email, telephone)	Responsibility
Supervisor	Nguyen The Hoang	hoangnt@fe.edu.vn	<ul style="list-style-type: none"> • Provide document template • Give instruction to project team • Review deliverables • Supervise project status • Receive project reports • Answer questions about the project

Table 10. FU Contacts

6. Configuration Management

6.1 Tools & Infrastructures

Module	Tools & Infrastructures
Programming languages	HTML, CSS, Javascript (Front-End), dart (Mobile App), C# (Back-End),
Framework	React Hook, ASP.NET Core Web API, Entity Framework Core, Flutter
API	Restful API
DBMS	SQL Server, Firebase
IDEs/Editors	Visual Studio Code, Visual Studio, Android Studio

UML tools	StarUML, Draw.io
Version Control	GitHub
Deployment server	Amazon Web Service, Viet
Project management tool	ProjectLibre (Schedule), GitHub (Tasks, Defects)
Documentation	Microsoft Office, Google Docs/Sheets/Slides

Table 11. Tools & Infrastructures

6.2 Document Management

We use Google Docs to manage documents. Google Docs allows team members to conveniently collaborate in real-time. We create documents on Google Docs based on the FPT document template, then divide the document writing work for members based on their predefined responsibilities. Thanks to real-time data synchronization, each member can see the results of the other members' work immediately. Google Docs also has a function to review document changes, so we can review document changes when needed. Also that, if anything is wrong in a document, We can comment on that and everyone can know what is not true.

6.3 Source Code Management

Use GitHub server to manage source code

Follow Git management best practices:

- Commit often
- Make detailed notes
- Review changes before committing
- Use branches for features
- Agree on a Workflow
- Review and resolve conflict before merging

III. Software Requirements Specification

1. Overall Description

1.1. User Requirements Overview

1.1.1. Guest

Users (login not required) who use UniCEC mobile application with following functions:

- View a published & registered competition
- Search a published & registered competition
- View a published & registered event
- Search a published & registered event

1.1.2. Member

Users (login required) who use UniCEC mobile application and web application with following functions:

- Logout
- Login with Google
- View a profile
- Edit a profile

1.1.3. System Admin

User (login required) are capable of using these following functions with system admin role:

- Create a university
- Edit a university
- Delete a university
- Search a university
- View a university
- Active an account
- De-active an account
- Search an account
- Set role

- View an account
- Create a major
- Edit a major
- Delete a major
- Search a major
- View a major

1.1.4. University Admin

Users (login required) who use UniCEC web application with following functions:

- Create a department
- Edit a department
- Delete a department
- Search a department
- View a department
- Create a club
- Edit a club status
- Delete a club
- Search a club
- View a club
- Set role club manager
- Approve a competition & event
- Reject a competition & event

1.1.5. Club Manager

Users (login required) who use UniCEC web application with following functions:

- Add a member
- Delete a member
- Approve a student processing
- Set role competition manager
- Search a member
- View a member

- Create a competition
- Edit a competition
- Delete a competition
- Search a competition
- Create an event
- Edit an event
- Delete an event
- Search an event
- Add seedpoints
- Edit seedpoints
- View seedpoints
- Add a sponsor
- Delete a sponsor
- Add an influencer
- Delete an influencer
- Add a co-operator
- Delete a co-operator
- View a competition & an event
- Edit a club
- View teams
- View a team

1.1.6. Competition Manager

Users (login required) who use UniCEC web application with following functions:

- Create a competition round
- Edit a competition round
- Delete a competition round
- Search a competition round
- View a competition round
- Create an activity
- Edit an activity
- Delete an activity

- View an activity
- Assign to a member
- Sign out a member
- Approve an activity progress
- View history competition changing status
- View history event changing status
- Create a match
- Edit a match
- Delete a match
- View a match
- Assign team to a match
- Sign out team to a match
- Create a result
- Edit a result
- View a result

1.1.7. Student

Users (login required) who use UniCEC mobile application with following functions:

- View a published & registered competition
- Search a published & registered competition
- View a published & registered event
- Search a published & registered event
- Participate in a competition
- Participate in an event
- Participate in a club
- Create a team
- Edit a team
- Delete a team
- Search a team
- Participate in a team
- View a team
- View a participant

- Delete a participant
- View a match
- View a round
- View a result
- View seedpoints

1.1.8. Club Member

Users (login required) who use UniCEC mobile application and is a member of club with following functions:

- View a published & registered competition
- Search a published & registered competition
- View a published & registered event
- Search a published & registered event
- Participate in a competition
- Participate in an event
- Participate in a club
- Create a team
- Edit a team
- Delete a team
- Search a team
- Participate in a team
- View a team
- View a participant
- Delete a participant
- View a match
- View a round
- View a result
- View seedpoints
- View an activity assigned
- Search an activity assigned
- Update an activities assigned progress
- View competition assigned

- View an event assigned

2. User Requirements

2.1 Overview

2.1.1. Use Case Diagram

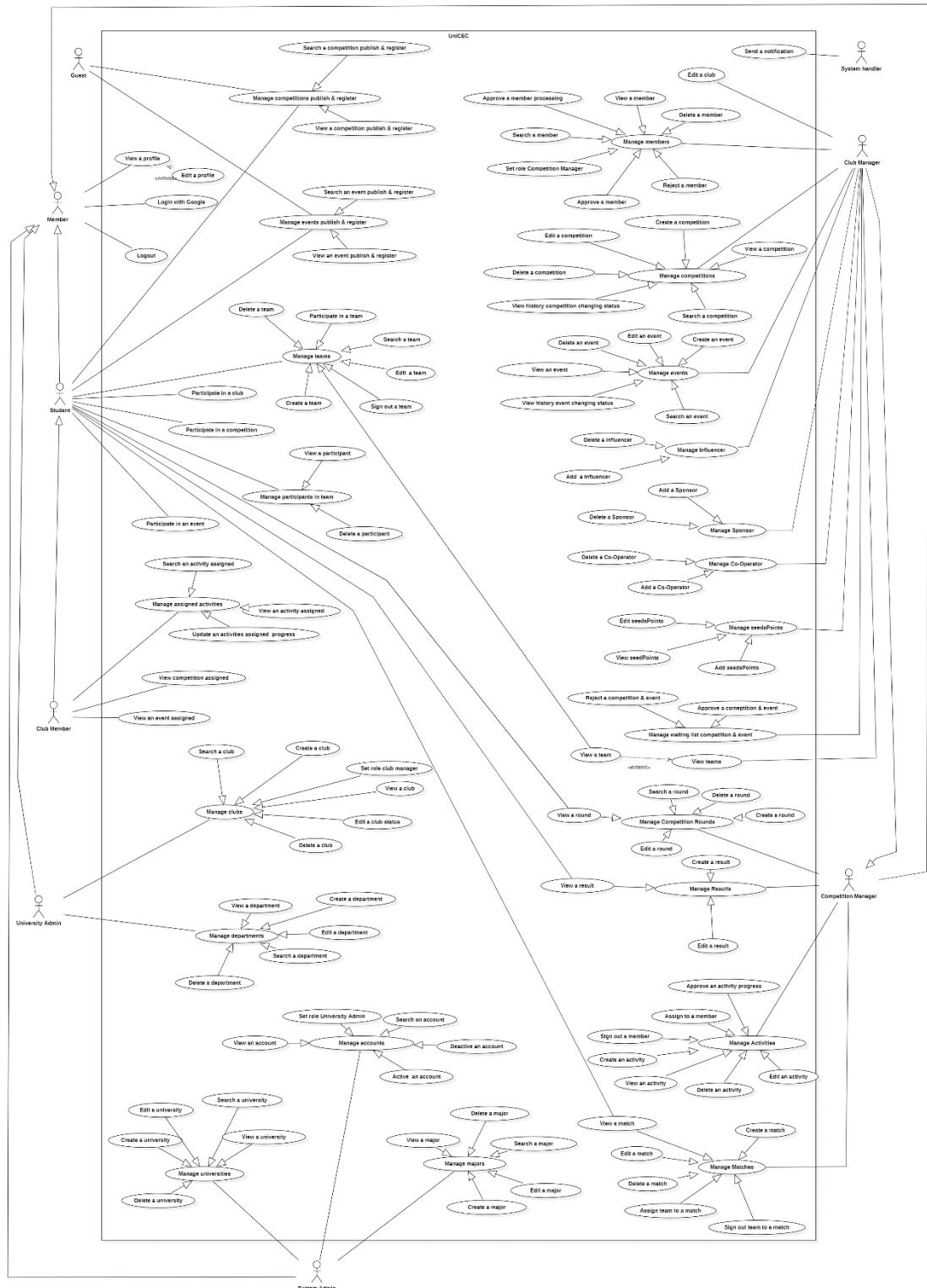


Figure 3. Use Case Diagram

2.1.2. System Actors

ID	Actor	Description
1	System Admin	User who manages a system, can manage university and manage account. User have to login to UniCEC as System Admin role.
2	University Admin	User login to system as University Admin role
3	Member	User who is in a club in a university, can view and participate in available competition, manage teams in a competition, can view and take activities in a competition they have logged in. User have to login to UniCEC as Member Role and is a member of a club.
4	Student	User who is in a university, can view and participate in available competition, manage teams in a competition. User have to login to UniCEC as Student role and is a student of a university.
5	Club Manager	User who manages a club in a university, manage member of club and manage competitions. User have to login to UniCEC as Club Manager role.
6	Competition Manager	User who manages a competition, manage participants, manage activities of member, manage teams. Competition Manager have to login to UniCEC as Competition Manager role and must be a member of a club.
7	System Handler	UniCEC system
8	Guest	User doesn't have to logged in UniCEC. The Guest can visit website to view all available competition and event.

Table 12. System Actors

2.1.3. Use Cases List

ID	Use Case	Primary Actors	Secondary Actors
UC-01	Create a university	System Admin	
UC-02	Edit a university	System Admin	
UC-03	Delete a university	System Admin	
UC-04	Search a university	System Admin	
UC-05	View a university	System Admin	
UC-06	Active an account	System Admin	
UC-07	De-active an account	System Admin	

UC-08	Search an account	System Admin	
UC-09	Set role	System Admin	
UC-10	View an account	System Admin	
UC-11	Create a major	System Admin	
UC-12	Edit a major	System Admin	
UC-13	Delete a major	System Admin	
UC-14	Search a major	System Admin	
UC-15	View a major	System Admin	
UC-16	Create a department	University Admin	
UC-17	Edit a department	University Admin	
UC-18	Delete a department	University Admin	
UC-19	Search a department	University Admin	
UC-20	View a department	University Admin	
UC-21	Create a club	University Admin	
UC-22	Edit a club status	University Admin	
UC-23	Delete a club	University Admin	
UC-24	Search a club	University Admin	
UC-25	View a club	University Admin	
UC-26	Set role club manager	University Admin	
UC-27	Approve a competition & event	University Admin	
UC-28	Reject a competition & event	University Admin	
UC-29	Add a member	Club Manager	
UC-30	Delete a member	Club Manager	
UC-31	Approve a student processing	Club Manager	
UC-32	Set role competition manager	Club Manager	
UC-33	Search a member	Club Manager	

UC-34	View a member	Club Manager	
UC-35	Create a competition	Club Manager	
UC-36	Edit a competition	Club Manager	
UC-37	Delete a competition	Club Manager	
UC-38	Search a competition	Club Manager	
UC-39	Create an event	Club Manager	
UC-40	Edit an event	Club Manager	
UC-41	Delete an event	Club Manager	
UC-42	Search an event	Club Manager	
UC-43	Add seedpoints	Club Manager	
UC-44	Edit seedpoints	Club Manager	
UC-45	View seedpoints	Club Manager	
UC-46	Add a sponsor	Club Manager	
UC-47	Delete a sponsor	Club Manager	
UC-48	Add an influencer	Club Manager	
UC-49	Delete an influencer	Club Manager	
UC-50	Add a co-operator	Club Manager	
UC-51	Delete a co-operator	Club Manager	
UC-52	View a competition & an event	Club Manager	
UC-53	Edit a club	Club Manager	
UC-54	View teams	Club Manager	
UC-55	View a team	Club Manager	
UC-56	Create a competition round	Competition Manager	Club Manager
UC-57	Edit a competition round	Competition Manager	Club Manager
UC-58	Delete a competition round	Competition Manager	Club Manager
UC-59	Search a competition round	Competition Manager	

UC-60	View a competition round	Competition Manager	
UC-61	Create an activity	Competition Manager	
UC-62	Edit an activity	Competition Manager	
UC-63	Delete an activity	Competition Manager	
UC-64	View an activity	Competition Manager	
UC-65	Assign to a member	Competition Manager	
UC-66	Sign out a member	Competition Manager	
UC-67	Approve an activity progress	Competition Manager	
UC-68	View history competition changing status	Competition Manager	
UC-69	View history event changing status	Competition Manager	
UC-70	Create a match	Competition Manager	
UC-71	Edit a match	Competition Manager	
UC-72	Delete a match	Competition Manager	
UC-73	View a match	Competition Manager	Student
UC-74	Assign team to a match	Competition Manager	
UC-75	Sign out team to a match	Competition Manager	
UC-76	Create a result	Competition Manager	
UC-77	Edit a result	Competition Manager	
UC-78	View a result	Competition Manager	
UC-79	View a published & registered competition	Student	Club Member/ Guest
UC-80	Search a published & registered competition	Student	Club Member/ Guest
UC-81	View a published & registered event	Student	Club Member/ Guest
UC-82	Search a published & registered event	Student	Club Member/ Guest

UC-83	Participate in a competition	Student	Club Member
UC-84	Participate in an event	Student	Club Member
UC-85	Participate in a club	Student	Club Member
UC-86	Create a team	Student	Club Member
UC-87	Edit a team	Student	Club Member
UC-88	Delete a team	Student	Club Member
UC-89	Search a team	Student	Club Member
UC-90	Participate in a team	Student	Club Member
UC-91	View a team	Student	Club Member
UC-92	View a participant	Student	Club Member
UC-93	Delete a participant	Student	Club Member
UC-94	View a round	Student	Club Member
UC-95	View a result	Student	Club Member
UC-96	View seedpoints	Student	Club Member
UC-97	View an assigned activity	Club Member	
UC-98	Search an assigned activity	Club Member	
UC-99	Update an assigned activity progress	Club Member	
UC-100	View competition assigned	Club Member	
UC-101	View an event assigned	Club Member	
UC-102	Logout	Guest	
UC-103	Login with Google	Guest	
UC-104	View a profile	Guest	
UC-105	Edit a profile	Guest	
UC-106	Logout	Guest	

Table 13. Use Cases List

2.2 List of Use Case

2.2.1. <System Admin> Create a university

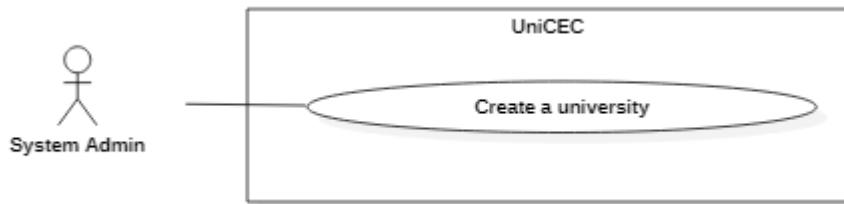


Figure 4. <System Admin> Create a university

ID and Name:	UC-01 Create a university								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	System Admin	Secondary Actors:	N/A						
Description:	System Admin want to create a university in system								
Trigger:	A System Admin click “Thêm Trường Đại Học” button								
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is System Admin 								
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that create university successfully Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>System Admin click “Thêm Trường Đại Học” button.</td> <td> System show screen that include all field of information of university with following information: <ul style="list-style-type: none"> City: dropdown UniCode: text Name: text Email: text Image: file image, Description: text, Phone: text, Founding: datetime Opening: datetime, Closing: datetime, [Exception 1, 2] </td> </tr> </tbody> </table>	Step	Actor actions	System responses	1	System Admin click “Thêm Trường Đại Học” button.	System show screen that include all field of information of university with following information: <ul style="list-style-type: none"> City: dropdown UniCode: text Name: text Email: text Image: file image, Description: text, Phone: text, Founding: datetime Opening: datetime, Closing: datetime, [Exception 1, 2]		
Step	Actor actions	System responses							
1	System Admin click “Thêm Trường Đại Học” button.	System show screen that include all field of information of university with following information: <ul style="list-style-type: none"> City: dropdown UniCode: text Name: text Email: text Image: file image, Description: text, Phone: text, Founding: datetime Opening: datetime, Closing: datetime, [Exception 1, 2]							
Alternative Flows:	N/A								

Exceptions:	0.	Causes	System Responses
	1	Actor click “Thêm Trường Đại Học” button but no data input fields not fulfil	System show “Vui lòng điền đầy đủ thông tin”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only System Admin can create a university 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 14. <System Admin> Create a university

2.2.2. <System Admin> Edit a university

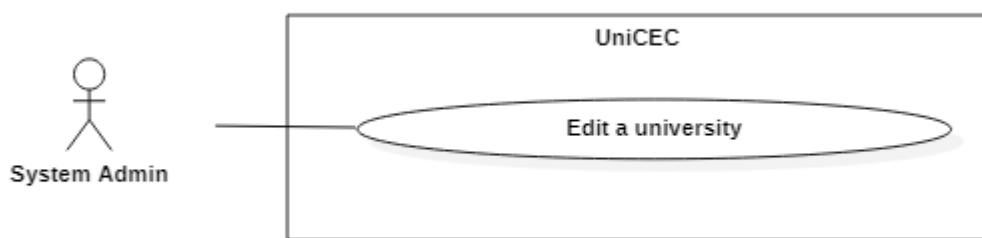


Figure 5. <System Admin> Edit a university

ID and Name:	UC-02 Edit a university		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	System Admin	Secondary Actors:	N/A
Description:	System Admin want to edit a university in system		
Trigger:	A System Admin click “Chỉnh sửa” button		

Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is System Admin 											
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that edit university successfully Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>System Admin click “Chỉnh sửa” button.</td><td> <p>System show screen that include all field of information of university with following information:</p> <ul style="list-style-type: none"> City: dropdown UniCode: text Name: text Email: text Image: file image, Description: text, Phone: text, Founding: datetime Opening: datetime, Closing: datetime, <p>[Exception 1, 2]</p> </td></tr> </tbody> </table>			Step	Actor actions	System responses	1	System Admin click “Chỉnh sửa” button.	<p>System show screen that include all field of information of university with following information:</p> <ul style="list-style-type: none"> City: dropdown UniCode: text Name: text Email: text Image: file image, Description: text, Phone: text, Founding: datetime Opening: datetime, Closing: datetime, <p>[Exception 1, 2]</p>			
Step	Actor actions	System responses										
1	System Admin click “Chỉnh sửa” button.	<p>System show screen that include all field of information of university with following information:</p> <ul style="list-style-type: none"> City: dropdown UniCode: text Name: text Email: text Image: file image, Description: text, Phone: text, Founding: datetime Opening: datetime, Closing: datetime, <p>[Exception 1, 2]</p>										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>O.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>System Admin click “Chỉnh sửa” button but no data input fields not fulfill</td><td>System show “Vui lòng điền đầy đủ thông tin”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			O.	Causes	System Responses	1	System Admin click “Chỉnh sửa” button but no data input fields not fulfill	System show “Vui lòng điền đầy đủ thông tin”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
O.	Causes	System Responses										
1	System Admin click “Chỉnh sửa” button but no data input fields not fulfill	System show “Vui lòng điền đầy đủ thông tin”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> Only System Admin can update a university 											
Other Information:	N/A											
Assumptions:	<p>Internet is available.</p> <p>System is working</p>											

Table 15. <System Admin> Edit a university

2.2.3. <System Admin> Delete a university

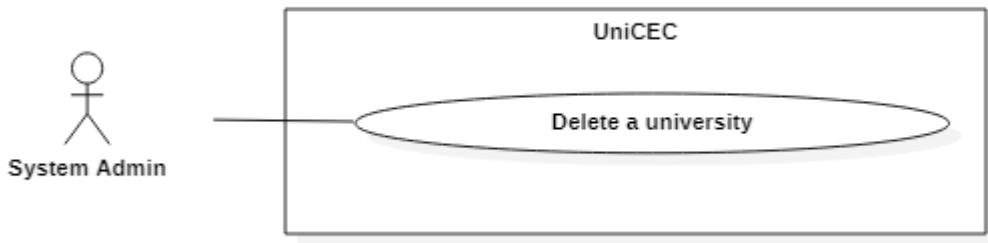


Figure 6. <System Admin> Delete a university

ID and Name:	UC-03 Delete a university								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	System Admin	Secondary Actors:	N/A						
Description:	System Admin want to delete a university								
Trigger:	A System Admin click to switch button to "Off" on the chosen row in the data table								
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is System Admin 								
Post-conditions:	<ul style="list-style-type: none"> Success: Switch button of user is changed to "Off" Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actor clicks the switch button to "Off" on the chosen row in the data table</td><td>System shows a table that on the user chosen row switch button has value "Off" [Exception 1, 2]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Actor clicks the switch button to "Off" on the chosen row in the data table	System shows a table that on the user chosen row switch button has value "Off" [Exception 1, 2]
Step	Actor actions	System responses							
1	Actor clicks the switch button to "Off" on the chosen row in the data table	System shows a table that on the user chosen row switch button has value "Off" [Exception 1, 2]							
Alternative Flows:	N/A								

Exceptions:	0.	Causes	System Responses
	1	Actor click switch button but system response error message	System show “response error message”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only System Admin can delete a university 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 16. <System Admin> Delete a university

2.2.4. <System Admin> Search a university

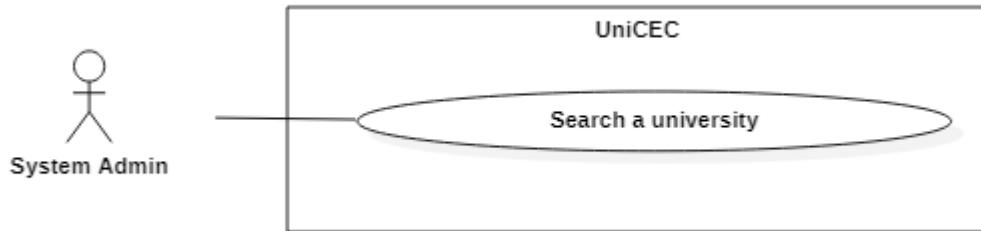


Figure 7. <System Admin> Search a university

ID and Name:	UC-04- Search a university		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	System Admin	Secondary Actors:	N/A
Description:	System Admin can search university based on city, status, name		
Trigger:	A System Admin click “Tìm kiếm” button		

Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is System Admin 											
Post-conditions:	<ul style="list-style-type: none"> Success: System show list of universities Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>System Admin input city, status, name</td><td>System finds in database</td></tr> <tr> <td>2</td><td>System Admin click “Tìm kiếm” button.</td><td> <p>System show table that include university with following information:</p> <ul style="list-style-type: none"> City: text UniCode: text Name: text Email: text Image: file image, [Exception 1, 2] </td></tr> </tbody> </table>			Step	Actor actions	System responses	1	System Admin input city, status, name	System finds in database	2	System Admin click “Tìm kiếm” button.	<p>System show table that include university with following information:</p> <ul style="list-style-type: none"> City: text UniCode: text Name: text Email: text Image: file image, [Exception 1, 2]
Step	Actor actions	System responses										
1	System Admin input city, status, name	System finds in database										
2	System Admin click “Tìm kiếm” button.	<p>System show table that include university with following information:</p> <ul style="list-style-type: none"> City: text UniCode: text Name: text Email: text Image: file image, [Exception 1, 2]										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actor click “Tìm kiếm” button but system response error message</td><td>System show “response error message”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			o.	Causes	System Responses	1	Actor click “Tìm kiếm” button but system response error message	System show “response error message”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses										
1	Actor click “Tìm kiếm” button but system response error message	System show “response error message”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> Only System Admin can search university 											
Other Information:	N/A											
Assumptions:	<p>Internet is available. System is working</p>											

Table 17.<System Admin> Search a university

2.2.5. <System Admin> View a university

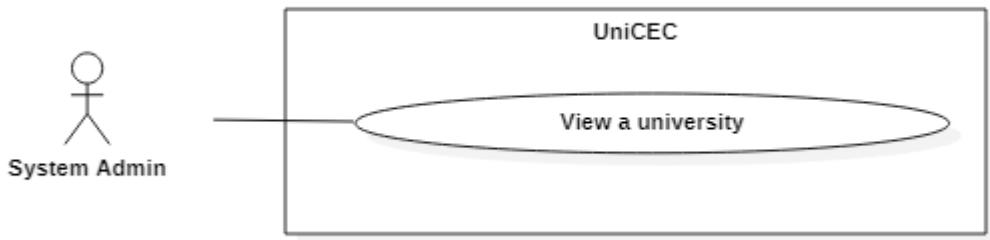


Figure 8. <System Admin> View a university

ID and Name:	UC-11 add sponsor in competition								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	System Admin	Secondary Actors:	N/A						
Description:	System Admin want view a university								
Trigger:	A System Admin click "Xem chi tiết" button								
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is System Admin 								
Post-conditions:	<ul style="list-style-type: none"> Success: System show a detail a university Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>System Admin click "Xem chi tiết" button.</td> <td> System show table that include university with following information: <ul style="list-style-type: none"> City: text UniCode: text Name: text Email: text Image: file image, Description: text, Phone: text, Founding: datetime Opening: datetime, Closing: datetime, [Exception 1, 2] </td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	System Admin click "Xem chi tiết" button.	System show table that include university with following information: <ul style="list-style-type: none"> City: text UniCode: text Name: text Email: text Image: file image, Description: text, Phone: text, Founding: datetime Opening: datetime, Closing: datetime, [Exception 1, 2]
Step	Actor actions	System responses							
1	System Admin click "Xem chi tiết" button.	System show table that include university with following information: <ul style="list-style-type: none"> City: text UniCode: text Name: text Email: text Image: file image, Description: text, Phone: text, Founding: datetime Opening: datetime, Closing: datetime, [Exception 1, 2]							
Alternative Flows:	N/A								

Exceptions:	0.	Causes	System Responses
	1	System Admin click "Xem chi tiết" button but system response error message	System show "response error message"
	2	Lost of internet connection	System shows "Mất kết nối internet. Vui lòng thử lại sau "
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only System Admin can view a university 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 18. <System Admin> View a university

2.2.6. <System Admin> Activate an account

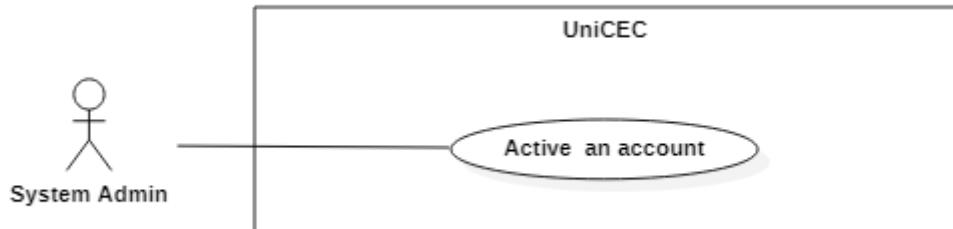


Figure 9. <System Admin> Activate an account

ID and Name:	UC-06 Activate an account		
Created By:	AnhNT	Date Created:	29/06/2022
Primary Actor:	System Admin	Secondary Actors:	N/A
Description:	System Admin wants to change the status to Activate the account on the chosen row in the data table		
Trigger:	A System Admin click to switch the button to "On" on the chosen user		
Preconditions:	<ul style="list-style-type: none"> The account has active status 		

	<ul style="list-style-type: none"> The account has a role as System Admin in the system 									
Post-conditions:	<ul style="list-style-type: none"> Success: Switch button of user is changed to “On” Fail: System show error message 									
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actor clicks the switch button to “On” on the chosen row in the data table</td><td>System shows a table that on the user chosen row switch button has value “On” [Exception 1, 2]</td></tr> </tbody> </table>	Step	Actor actions	System responses	1	Actor clicks the switch button to “On” on the chosen row in the data table	System shows a table that on the user chosen row switch button has value “On” [Exception 1, 2]			
Step	Actor actions	System responses								
1	Actor clicks the switch button to “On” on the chosen row in the data table	System shows a table that on the user chosen row switch button has value “On” [Exception 1, 2]								
Alternative Flows:	N/A									
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actor click “Thành viên” button but system response error message</td><td>System shows “response error message”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>	o.	Causes	System Responses	1	Actor click “Thành viên” button but system response error message	System shows “response error message”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses								
1	Actor click “Thành viên” button but system response error message	System shows “response error message”								
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”								
Priority:	Medium									
Frequency of Use:	Regularly									
Business Rules:	<ul style="list-style-type: none"> System Admin can't deactivate account has role System Admin 									
Other Information:	N/A									
Assumptions:	Internet is available. System is working									

Table 19. <System Admin> Activate an account

2.2.7. <System Admin> Deactivate an account

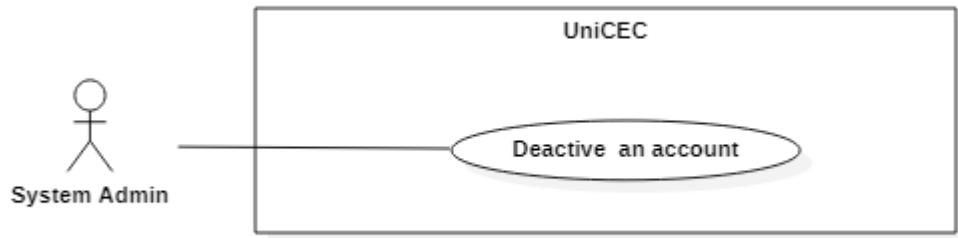


Figure 10. <System Admin> Deactivate an account

ID and Name:	UC-07 Deactivate an account								
Created By:	AnhNT	Date Created:	29/06/2022						
Primary Actor:	System Admin	Secondary Actors:	N/A						
Description:	System Admin wants to change the status to deactivate the account of the chosen user								
Trigger:	A System Admin click to switch button to “Off” on the chosen row in the data table								
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role as System Admin in the system 								
Post-conditions:	<ul style="list-style-type: none"> Success: Switch button of user is changed to “Off” Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actor clicks the switch button to “Off” on the chosen row in the data table</td> <td>System shows a table that on the user chosen row switch button has value “Off” [Exception 1, 2]</td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Actor clicks the switch button to “Off” on the chosen row in the data table	System shows a table that on the user chosen row switch button has value “Off” [Exception 1, 2]
Step	Actor actions	System responses							
1	Actor clicks the switch button to “Off” on the chosen row in the data table	System shows a table that on the user chosen row switch button has value “Off” [Exception 1, 2]							
Alternative Flows:	N/A								

Exceptions:	0.	Causes	System Responses
	1	Actor click “Thành viên” button but system response error message	System shows “response error message”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau.”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> System Admin can't deactivate account has role System Admin 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 20. <System Admin> Deactivate an account

2.2.8. <System Admin> Search an account

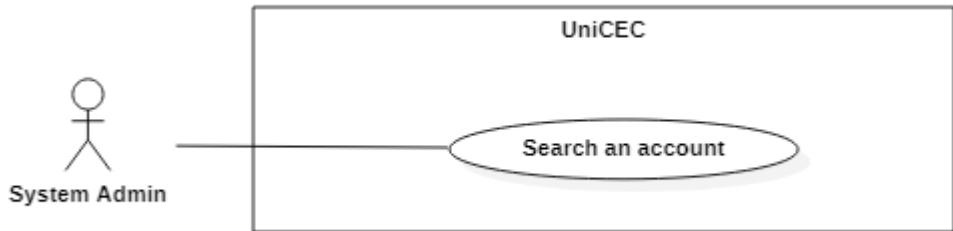


Figure 11. <System Admin> Search an account

ID and Name:	UC-08 Search Account		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	System Admin	Secondary Actors:	N/A
Description:	System Admin can search accounts based on university id, department id, full name, status		
Trigger:	A club manager click “Tìm kiếm” button		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is System Admin 		
Post-conditions:	<ul style="list-style-type: none"> Success: System show list of account Fail: System show error message 		

	Step	Actor actions	System responses
Normal Flow:	1	System Admin input university id, department id, full name, status	System finds in database
	2	System Admin click “Tìm kiếm” button.	<p>System show table that include account with following information:</p> <ul style="list-style-type: none"> • FullName • Avatar • Gender • Phone • Email • Status • Role • Department <p>[Exception 1, 2] [Alternative 1]</p>
Exceptions:	0.	Causes	System Responses
	1	Actor click “Search” button but no data member	System show “Danh sách trống”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> • Only Competition Manager, Member 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 21. <System Admin> Search an account

2.2.9. <System Admin> Set Role University Admin

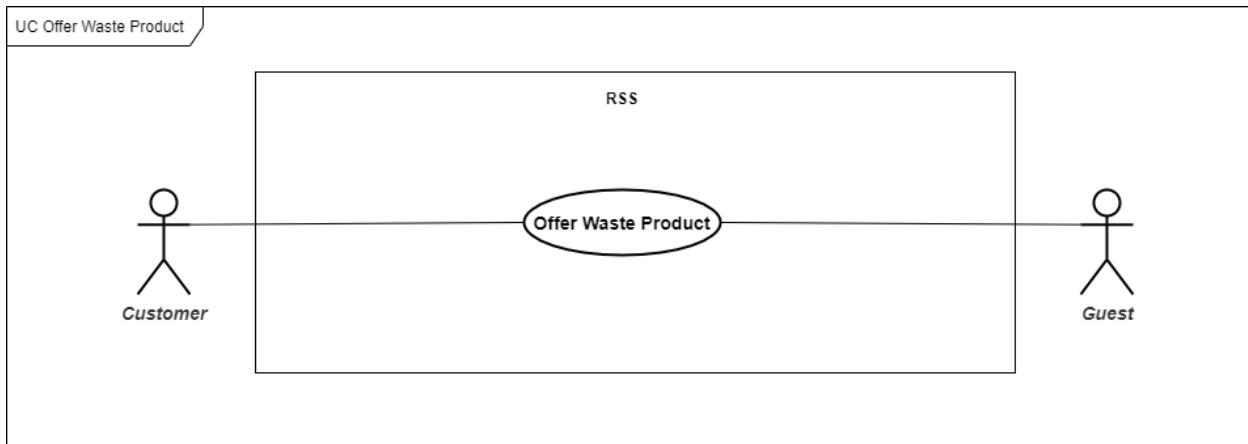


Figure 12. <System Admin> Set Role University Admin

ID and Name:	UC-09 Set role University Admin								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	System Admin	Secondary Actors:	N/A						
Description:	System Admin wants to set role for account on the chosen row in the data table								
Trigger:	A System Admin click to dropdown button and choose value role for this account on the chosen row in the data table								
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role as System Admin in the system 								
Post-conditions:	<ul style="list-style-type: none"> Success: role of account is changed on the chosen row in the data table Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actor click to dropdown button and choose value role for this account on the chosen row in the data table</td> <td>System shows “Cập nhật thành công”, role of account is changed on the chosen row in the data table [Exception 1, 2]</td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Actor click to dropdown button and choose value role for this account on the chosen row in the data table	System shows “Cập nhật thành công”, role of account is changed on the chosen row in the data table [Exception 1, 2]
Step	Actor actions	System responses							
1	Actor click to dropdown button and choose value role for this account on the chosen row in the data table	System shows “Cập nhật thành công”, role of account is changed on the chosen row in the data table [Exception 1, 2]							
Alternative Flows:	N/A								

Exceptions:	o.	Causes	System Responses
	1	Actor click value in dropdown button Role button but system response error message	System show “response error message”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only role System Admin can set role for account 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 22. <System Admin> Set Role University Admin

2.2.10. <System Admin> View an account

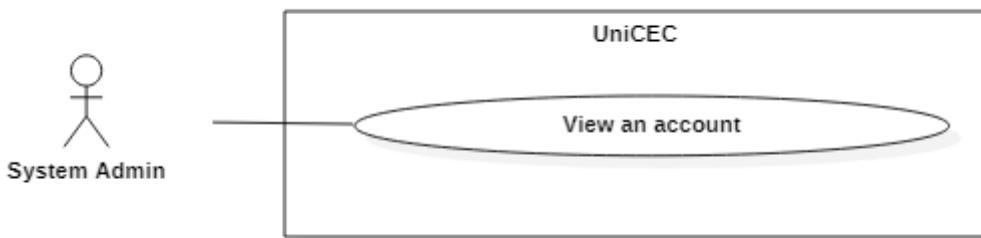


Figure 13. <System Admin> View an account

ID and Name:	UC-10 View an account		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	System Admin	Secondary Actors:	N/A
Description:	System Admin want view a account		
Trigger:	A System Admin click “Xem chi tiết” button		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is System Admin in system 		
Post-conditions:	<ul style="list-style-type: none"> Success: System show a detail a account Fail: System show error message 		

	Step	Actor actions	System responses
Normal Flow:	1	System Admin click “Xem chi tiết” button.	<p>System show table that include university with following information:</p> <ul style="list-style-type: none"> • FullName: text • Avatar: file image • Gender: text • Phone: text • Email: text • Status: status • Role: text • Department: text <p>[Exception 1, 2]</p>
Alternative Flows:	N/A		
Exceptions:	0.	Causes	System Responses
	1	System Admin click “Xem chi tiết” button but system response error message	System shows “response error message”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> • Only System Admin can view a account 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 23. <System Admin> View an account

2.2.11. <System Admin> Create a major

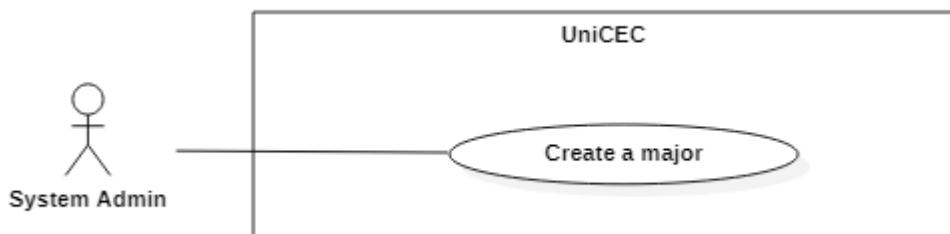


Figure 14. <System Admin> Create a major

ID and Name:	UC-11 Create a major														
Created By:	HuyVL	Date Created:	29/06/2022												
Primary Actor:	System Admin	Secondary Actors:	N/A												
Description:	University Admin wants to add new department for a university														
Trigger:	A System Admin clicks “Thêm mới” button														
Preconditions:	<ul style="list-style-type: none"> ● The account has active status ● The account has a role is System Admin in system 														
Post-conditions:	<ul style="list-style-type: none"> ● Success: System shows notification that create new major successfully ● Fail: System shows error message 														
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>System Admin clicks “Thêm mới” button</td> <td> <p>System responses form that allows following information:</p> <ul style="list-style-type: none"> ● “MajorCode”: text, 2-6 characters ● “Name”: text, 1-500 characters ● “Detail”: text, 1-500 characters ● “Tạo nhóm ngành” button ● “Đóng” button </td> </tr> <tr> <td>2</td> <td>University Admin inputs information</td> <td>System shows information</td> </tr> <tr> <td>3</td> <td>University Admin clicks “Tạo nhóm ngành” button</td> <td>System responses “Tạo ngành học thành công” [Exception 1, 2, 3, 4, 5]</td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	System Admin clicks “Thêm mới” button	<p>System responses form that allows following information:</p> <ul style="list-style-type: none"> ● “MajorCode”: text, 2-6 characters ● “Name”: text, 1-500 characters ● “Detail”: text, 1-500 characters ● “Tạo nhóm ngành” button ● “Đóng” button 	2	University Admin inputs information	System shows information	3	University Admin clicks “Tạo nhóm ngành” button	System responses “Tạo ngành học thành công” [Exception 1, 2, 3, 4, 5]
Step	Actor actions	System responses													
1	System Admin clicks “Thêm mới” button	<p>System responses form that allows following information:</p> <ul style="list-style-type: none"> ● “MajorCode”: text, 2-6 characters ● “Name”: text, 1-500 characters ● “Detail”: text, 1-500 characters ● “Tạo nhóm ngành” button ● “Đóng” button 													
2	University Admin inputs information	System shows information													
3	University Admin clicks “Tạo nhóm ngành” button	System responses “Tạo ngành học thành công” [Exception 1, 2, 3, 4, 5]													
Alternative Flows:	N/A														

Exceptions:			
	No.	Causes	System Responses
	1	University Admin clicks “Tạo nhóm ngành” button	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
	3	Name is not in range 1- 500 character	System shows “Tên phải từ 1-500 kí tự”.
	4	Detail is not in range 1- 500 character	System shows “Chi tiết phải từ 1-500 kí tự”.
	5	Major Code is not in range 2-6 character	System shows “Mã nhóm ngành phải từ 2-6 kí tự”.
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> ● Only University Admin can create a new major ● All field is required 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 24. <System Admin> Create a major

2.2.12. <System Admin> Edit a major

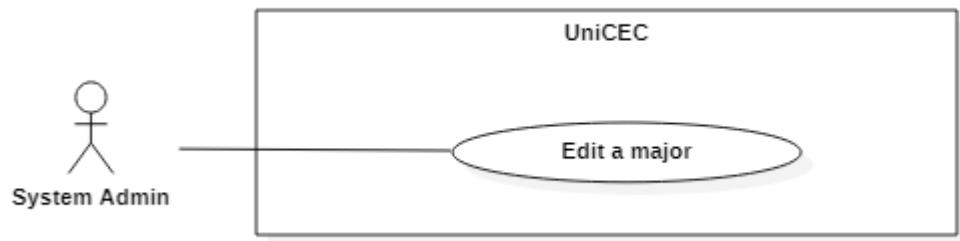


Figure 15. <System Admin> Edit a major

ID and Name:	UC-12 Edit a major		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	System Admin	Secondary Actors:	N/A
Description:	University Admin wants to edit new department for a university		
Trigger:	A System Admin clicks “Chỉnh sửa” on dropdown button		
Preconditions:	<ul style="list-style-type: none">The account has active statusThe account has a role is System Admin in system		
Post-conditions:	<ul style="list-style-type: none">Success: System shows notification that create new major successfullyFail: System shows error message		

Normal Flow:	Step	Actor actions	System responses																
	1	A System Admin clicks “Chỉnh sửa” on dropdown button	System responses form that allows following information: <ul style="list-style-type: none"> • MajorCode • Name • Detail • “Cập nhật” button • “Đóng” button 																
	2	University Admin inputs information	System shows information																
Alternative Flows:																			
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>University Admin clicks “Cập nhật” button</td><td>System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> <tr> <td>3</td><td>Name is not in range 1- 500 character</td><td>System shows “Tên phải từ 1-500 kí tự”.</td></tr> <tr> <td>4</td><td>Detail is not in range 1- 500 character</td><td>System shows “Chi tiết phải từ 1-500 kí tự”.</td></tr> <tr> <td>5</td><td>Major Code is not in range 2-6 character</td><td>System shows “Mã nhóm ngành phải từ 2-6 kí tự”.</td></tr> </tbody> </table>	No.	Causes	System Responses	1	University Admin clicks “Cập nhật” button	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”	3	Name is not in range 1- 500 character	System shows “Tên phải từ 1-500 kí tự”.	4	Detail is not in range 1- 500 character	System shows “Chi tiết phải từ 1-500 kí tự”.	5	Major Code is not in range 2-6 character	System shows “Mã nhóm ngành phải từ 2-6 kí tự”.
No.	Causes	System Responses																	
1	University Admin clicks “Cập nhật” button	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”																	
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”																	
3	Name is not in range 1- 500 character	System shows “Tên phải từ 1-500 kí tự”.																	
4	Detail is not in range 1- 500 character	System shows “Chi tiết phải từ 1-500 kí tự”.																	
5	Major Code is not in range 2-6 character	System shows “Mã nhóm ngành phải từ 2-6 kí tự”.																	
Priority:	Medium																		
Frequency of Use:	Regularly																		
Business Rules:	<ul style="list-style-type: none"> • Only System Admin can edit a major • All field is required 																		

Other Information:	N/A
Assumptions:	Internet is available. System is working

Table 25. <System Admin> Edit a major

2.2.13. < System Admin> Delete a major

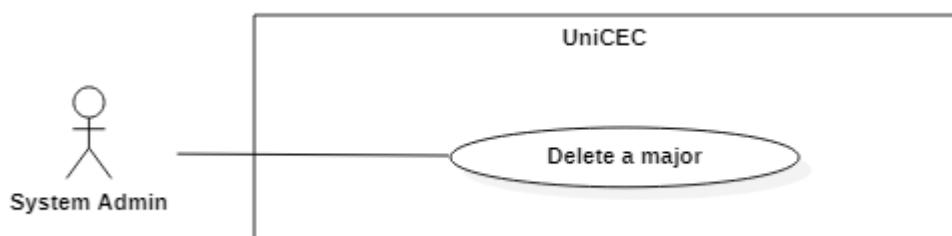


Figure 16. <System Admin> Delete a major

ID and Name:	UC-13 Delete a major		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	System Admin	Secondary Actors:	N/A
Description:	System Admin wants to delete a major out of university		
Trigger:	A System Admin clicks “Xóa nhóm ngành” button		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is System Admin in system 		
Post-conditions:	<ul style="list-style-type: none"> Success: System shows notification delete a major successfully Fail: System show error message 		

Normal Flow:	Step	Actor actions	System responses									
	1	A university Admin clicks “Quản lý nhóm ngành” button on sidebar	<p>System shows table that include all of major is in university with following information:</p> <ul style="list-style-type: none"> • No: number • MajorID: text • Name: text • Department: text • Action: dropdown button <ul style="list-style-type: none"> ◦ “Xem chi tiết”: button ◦ “Xóa”: button <p>[Exception 1, 2]</p>									
	2	University Admin click “Xem chi tiết” button on dropdown button of action	<p>System shows popup that with following information of major:</p> <ul style="list-style-type: none"> • MajorCode: text • Name: text • Description: text • Department: text • “Xóa ngành học” button • “Đóng” button <p>[Exception 1,2]</p>									
	3	A university admin clicks “Xóa nhóm ngành” button on popup	<p>System responses message “Xóa nhóm ngành thành công”</p> <p>[Exception 2,3]</p>									
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td><td>A university admin clicks “Xem chi tiết” button but cannot found data</td><td>System show “Không tìm thấy dữ liệu. Vui lòng thử lại sau!”</td></tr> <tr> <td>2</td><td>Actor click “Xóa ngành học” button but not thing response</td><td>System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	A university admin clicks “Xem chi tiết” button but cannot found data	System show “Không tìm thấy dữ liệu. Vui lòng thử lại sau!”	2	Actor click “Xóa ngành học” button but not thing response	System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”
No.	Causes	System Responses										
1	A university admin clicks “Xem chi tiết” button but cannot found data	System show “Không tìm thấy dữ liệu. Vui lòng thử lại sau!”										
2	Actor click “Xóa ngành học” button but not thing response	System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”										

	3	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only System Admin can delete a major 		
Other Information:	N/A		
Assumptions:	<p>Internet is available.</p> <p>System is working</p>		

Table 26. <System Admin> Delete a major

2.2.14. <System Admin> Search a major

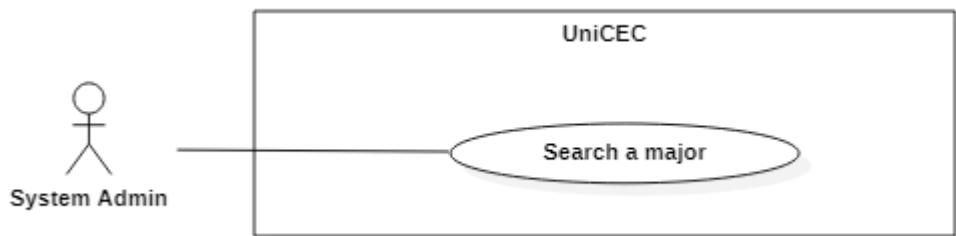


Figure 17. <System Admin> Search a major

ID and Name:	UC-14 Search a major		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	System Admin	Secondary Actors:	N/A

Description:	System Admin can search a major based on name of major in a university											
Trigger:	A System Admin clicks “Tìm kiếm” button											
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is System Admin in system 											
Post-conditions:	<ul style="list-style-type: none"> Success: System shows major is founded in university Fail: System shows error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>System Admin inputs name of major</td> <td>System finds in database</td> </tr> <tr> <td>2</td> <td>System Admin clicks “Tìm kiếm” button.</td> <td> <p>System shows table that include all of major is in university with following information:</p> <ul style="list-style-type: none"> No: number MajorID: text Name: text Action: dropdown button <ul style="list-style-type: none"> “Xem chi tiết”: button “Xóa”: button <p>[Exception 1, 2] [Alternative 1]</p> </td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	System Admin inputs name of major	System finds in database	2	System Admin clicks “Tìm kiếm” button.	<p>System shows table that include all of major is in university with following information:</p> <ul style="list-style-type: none"> No: number MajorID: text Name: text Action: dropdown button <ul style="list-style-type: none"> “Xem chi tiết”: button “Xóa”: button <p>[Exception 1, 2] [Alternative 1]</p>
Step	Actor actions	System responses										
1	System Admin inputs name of major	System finds in database										
2	System Admin clicks “Tìm kiếm” button.	<p>System shows table that include all of major is in university with following information:</p> <ul style="list-style-type: none"> No: number MajorID: text Name: text Action: dropdown button <ul style="list-style-type: none"> “Xem chi tiết”: button “Xóa”: button <p>[Exception 1, 2] [Alternative 1]</p>										
Alternative Flows:	<table border="1"> <thead> <tr> <th>No</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>System Admin clicks “Tìm kiếm” button while input empty information</td> <td>System does not response anything [Exception 1, 2]</td> </tr> </tbody> </table>			No	Actor actions	System responses	1	System Admin clicks “Tìm kiếm” button while input empty information	System does not response anything [Exception 1, 2]			
No	Actor actions	System responses										
1	System Admin clicks “Tìm kiếm” button while input empty information	System does not response anything [Exception 1, 2]										

Exceptions:			
	No.	Causes	System Responses
	1	A System Admin clicks “Tìm kiếm” button but no data major	System show “Danh sách trống”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only System Admin, Club Manager can search a major in a university 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 27. <System Admin> Search a major

2.2.15. <System Admin> View a major

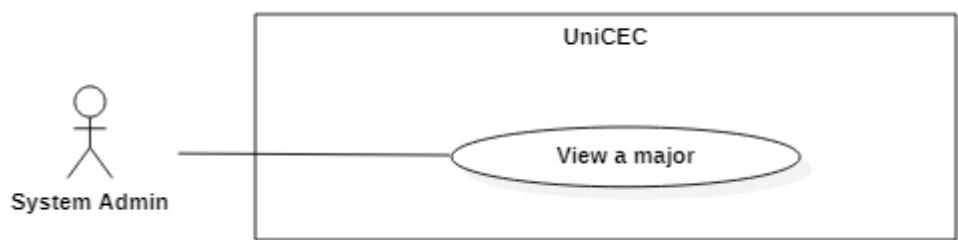


Figure 18. <System Admin> View a major

ID and Name:	UC-15 View a major
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Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	System Admin	Secondary Actors:	N/A									
Description:	System Admin can view detail of a major in a university											
Trigger:	A System admin click “Xem chi tiết” button on dropdown button											
Preconditions:	<ul style="list-style-type: none"> ● The account has active status ● The account has a role is System Admin in system 											
Post-conditions:	<ul style="list-style-type: none"> ● Success: System shows detail of major in a university ● Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A System Admin clicks “Quản lý nhóm ngành” button on sidebar</td> <td> <p>System shows table that include all of major is in university with following information:</p> <ul style="list-style-type: none"> ● No: number ● MajorID: text ● Name: text ● Action: dropdown button <ul style="list-style-type: none"> ○ “Xem chi tiết”: button ○ “Xóa”: button <p>[Exception 1, 2]</p> </td></tr> <tr> <td>2</td> <td>System Admin clicks “Xem chi tiết” button on dropdown button of action</td> <td> <p>System shows popup that with following information of major:</p> <ul style="list-style-type: none"> ● MajorCode: text ● Name: text ● Description: text ● “Xóa ngành học” button ● “Đóng” button <p>[Exception 1,2]</p> </td></tr> </tbody> </table>			Step	Actor actions	System responses	1	A System Admin clicks “Quản lý nhóm ngành” button on sidebar	<p>System shows table that include all of major is in university with following information:</p> <ul style="list-style-type: none"> ● No: number ● MajorID: text ● Name: text ● Action: dropdown button <ul style="list-style-type: none"> ○ “Xem chi tiết”: button ○ “Xóa”: button <p>[Exception 1, 2]</p>	2	System Admin clicks “Xem chi tiết” button on dropdown button of action	<p>System shows popup that with following information of major:</p> <ul style="list-style-type: none"> ● MajorCode: text ● Name: text ● Description: text ● “Xóa ngành học” button ● “Đóng” button <p>[Exception 1,2]</p>
Step	Actor actions	System responses										
1	A System Admin clicks “Quản lý nhóm ngành” button on sidebar	<p>System shows table that include all of major is in university with following information:</p> <ul style="list-style-type: none"> ● No: number ● MajorID: text ● Name: text ● Action: dropdown button <ul style="list-style-type: none"> ○ “Xem chi tiết”: button ○ “Xóa”: button <p>[Exception 1, 2]</p>										
2	System Admin clicks “Xem chi tiết” button on dropdown button of action	<p>System shows popup that with following information of major:</p> <ul style="list-style-type: none"> ● MajorCode: text ● Name: text ● Description: text ● “Xóa ngành học” button ● “Đóng” button <p>[Exception 1,2]</p>										
Alternative Flows:	N/A											

Exceptions:			
	No.	Causes	System Responses
	1	A System Admin clicks “Xem chi tiết” button but cannot found data	System shows notification “Không tìm thấy dữ liệu. Vui lòng thử lại sau!”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau!”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only System Admin can view detail of major in a club 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 28. <System Admin> View a major

2.2.16. <University Admin> Create a department

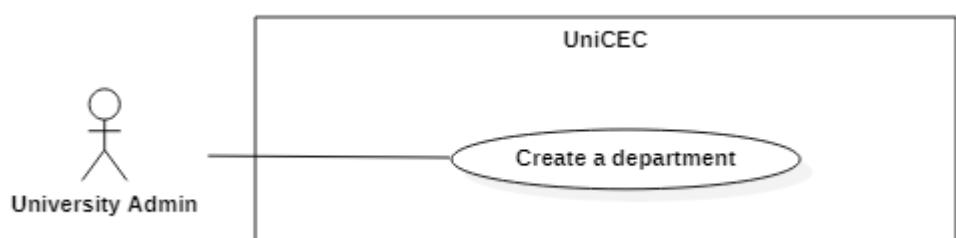


Figure 19. <University Admin> Create a department

ID and Name:	UC-16 Create a department														
Created By:	HuyVL	Date Created:	29/06/2022												
Primary Actor:	University Admin	Secondary Actors:	N/A												
Description:	University Admin wants to add new department for a university														
Trigger:	A university Admin clicks “Thêm mới” button														
Preconditions:	<ul style="list-style-type: none"> ● The account has active status ● The account has a role is University Admin in system 														
Post-conditions:	<ul style="list-style-type: none"> ● Success: System show notification that create new department successfully ● Fail: System show error message 														
Normal Flow:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #a6c9e9;"> <th style="text-align: center; padding: 5px;">Step</th> <th style="text-align: center; padding: 5px;">Actor actions</th> <th style="text-align: center; padding: 5px;">System responses</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 10px;">1</td> <td style="padding: 10px;">University Admin clicks “Thêm mới” button</td> <td style="padding: 10px;">System responses form that allows following information: <ul style="list-style-type: none"> ● “DepartmentCode”: text, 2-6 characters ● “Name”: text, 1-500 characters ● “Detail”: text, 1-500 characters ● “Major”: Dropdown list, select one option ● “Tạo ngành học” button ● “Đóng” button </td> </tr> <tr> <td style="text-align: center; padding: 10px;">2</td> <td style="padding: 10px;">University Admin inputs information</td> <td style="padding: 10px;">System shows information</td> </tr> <tr> <td style="text-align: center; padding: 10px;">3</td> <td style="padding: 10px;">University Admin clicks “Tạo ngành học” button</td> <td style="padding: 10px;">System responses “Tạo ngành học thành công” [Exception 1, 2, 3, 4, 5]</td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	University Admin clicks “Thêm mới” button	System responses form that allows following information: <ul style="list-style-type: none"> ● “DepartmentCode”: text, 2-6 characters ● “Name”: text, 1-500 characters ● “Detail”: text, 1-500 characters ● “Major”: Dropdown list, select one option ● “Tạo ngành học” button ● “Đóng” button 	2	University Admin inputs information	System shows information	3	University Admin clicks “Tạo ngành học” button	System responses “Tạo ngành học thành công” [Exception 1, 2, 3, 4, 5]
Step	Actor actions	System responses													
1	University Admin clicks “Thêm mới” button	System responses form that allows following information: <ul style="list-style-type: none"> ● “DepartmentCode”: text, 2-6 characters ● “Name”: text, 1-500 characters ● “Detail”: text, 1-500 characters ● “Major”: Dropdown list, select one option ● “Tạo ngành học” button ● “Đóng” button 													
2	University Admin inputs information	System shows information													
3	University Admin clicks “Tạo ngành học” button	System responses “Tạo ngành học thành công” [Exception 1, 2, 3, 4, 5]													
Alternative Flows:	N/A														

Exceptions:			
	No.	Causes	System Responses
	1	University Admin clicks “Tạo ngành học” button	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
	3	Name is not in range 1- 500 character	System shows “Tên phải từ 1-500 kí tự”.
	4	Detail is not in range 1- 500 character	System shows “Chi tiết phải từ 1-500 kí tự”.
Priority:	Medium		
	Frequency of Use:		
Business Rules:		<ul style="list-style-type: none"> ● Only University Admin can create a new department ● All field is required 	
Other Information:		N/A	
Assumptions:		Internet is available. System is working	

Table 29. <University Admin> Create a department

2.2.17. <University Admin> Edit a department

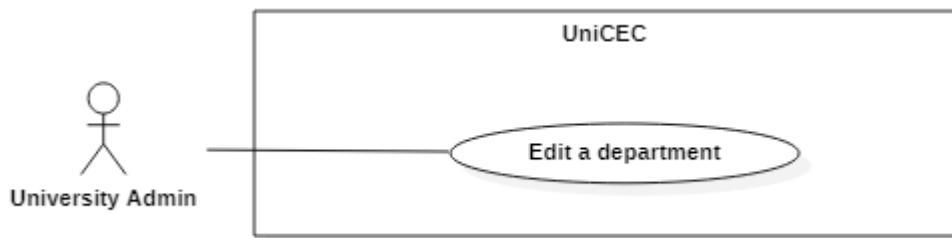


Figure 20. <University Admin> Edit a department

ID and Name:	UC-17 Edit a department								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	University Admin	Secondary Actors:	N/A						
Description:	University Admin wants to edit a department								
Trigger:	A university Admin clicks “Chỉnh sửa” button								
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is University Admin in system 								
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that edit a department successfully Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td></td><td>University Admin clicks “Chỉnh sửa” on dropdown button in “Hành động” field</td><td> System responses form that allows following information: <ul style="list-style-type: none"> “DepartmentCode”: text, 2-6 characters “Name”: text, 1-500 characters “Detail”: text, 1-500 characters “Major”: Dropdown list, select one option </td></tr> </tbody> </table>			Step	Actor actions	System responses		University Admin clicks “Chỉnh sửa” on dropdown button in “Hành động” field	System responses form that allows following information: <ul style="list-style-type: none"> “DepartmentCode”: text, 2-6 characters “Name”: text, 1-500 characters “Detail”: text, 1-500 characters “Major”: Dropdown list, select one option
Step	Actor actions	System responses							
	University Admin clicks “Chỉnh sửa” on dropdown button in “Hành động” field	System responses form that allows following information: <ul style="list-style-type: none"> “DepartmentCode”: text, 2-6 characters “Name”: text, 1-500 characters “Detail”: text, 1-500 characters “Major”: Dropdown list, select one option 							

		<ul style="list-style-type: none"> “Tạo ngành học” button “Đóng” button 																		
	2	University Admin inputs information																		
	2	University Admin clicks “Chỉnh sửa” on popup																		
Alternative Flows:	N/A																			
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>University Admin clicks “Tạo ngành học” button</td><td>System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> <tr> <td>3</td><td>Name is not in range 1- 500 character</td><td>System shows “Tên phải từ 1-500 kí tự”.</td></tr> <tr> <td>4</td><td>Detail is not in range 1- 500 character</td><td>System shows “Chi tiết phải từ 1-500 kí tự”.</td></tr> <tr> <td>5</td><td>Department Code is not in range 2-6 character</td><td>System shows “Mã ngành học phải từ 2-6 kí tự”.</td></tr> </tbody> </table>		No.	Causes	System Responses	1	University Admin clicks “Tạo ngành học” button	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”	3	Name is not in range 1- 500 character	System shows “Tên phải từ 1-500 kí tự”.	4	Detail is not in range 1- 500 character	System shows “Chi tiết phải từ 1-500 kí tự”.	5	Department Code is not in range 2-6 character	System shows “Mã ngành học phải từ 2-6 kí tự”.
No.	Causes	System Responses																		
1	University Admin clicks “Tạo ngành học” button	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”																		
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”																		
3	Name is not in range 1- 500 character	System shows “Tên phải từ 1-500 kí tự”.																		
4	Detail is not in range 1- 500 character	System shows “Chi tiết phải từ 1-500 kí tự”.																		
5	Department Code is not in range 2-6 character	System shows “Mã ngành học phải từ 2-6 kí tự”.																		
Priority:	Medium																			
Frequency of Use:	Regularly																			
Business Rules:	<ul style="list-style-type: none"> Only University Admin can create a new department All field is required 																			
Other Information:	N/A																			

Assumptions:	Internet is available. System is working

Table 30. <University Admin> Edit a department

2.2.18. <University Admin> Delete a department

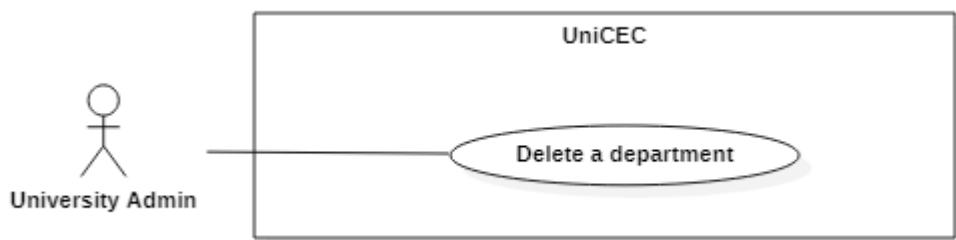


Figure 21. <University Admin> Delete a department

ID and Name:	UC-18 Delete a department		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	University Admin	Secondary Actors:	N/A
Description:	University Admin wants to delete a department		
Trigger:	A university Admin clicks “Xóa” on dropdown button in “Hành động” field		
Preconditions:	<ul style="list-style-type: none"> ● The account has active status ● The account has a role is University Admin in system 		
Post-conditions:	<ul style="list-style-type: none"> ● Success: System show notification that delete a department successfully ● Fail: System show error message 		

Normal Flow:	Step	Actor actions	System responses												
		University Admin clicks “Xóa” on dropdown button in “Hành động” field	System responses popup “Bạn có chắc muốn xóa chuyên ngành này không?” with 2 options: <ul style="list-style-type: none"> • “Có” button • “Không” button 												
	2	University Admin clicks “Có” button on popup	System responses “Xóa ngành học thành công” [Exception 1, 2, 3]												
Alternative Flows:	No	Actor actions	System responses												
	2	University Admin clicks “Không” button on popup	System responses “Hủy xóa ngành học” [Exception 1, 2, 3]												
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>University Admin clicks “Có” button but nothing responses</td><td>System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”</td></tr> <tr> <td>2</td><td>University Admin clicks “Không” button but nothing responses</td><td>System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”</td></tr> <tr> <td>3</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	University Admin clicks “Có” button but nothing responses	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”	2	University Admin clicks “Không” button but nothing responses	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”	3	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
No.	Causes	System Responses													
1	University Admin clicks “Có” button but nothing responses	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”													
2	University Admin clicks “Không” button but nothing responses	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”													
3	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”													
Priority:	Medium														
Frequency of Use:	Regularly														
Business Rules:	<ul style="list-style-type: none"> • Only University Admin can create a new department • All field is required 														
Other Information:	N/A														

Assumptions:	Internet is available. System is working

Table 31. <University Admin> Delete a department

2.2.19. <University Admin> View a department

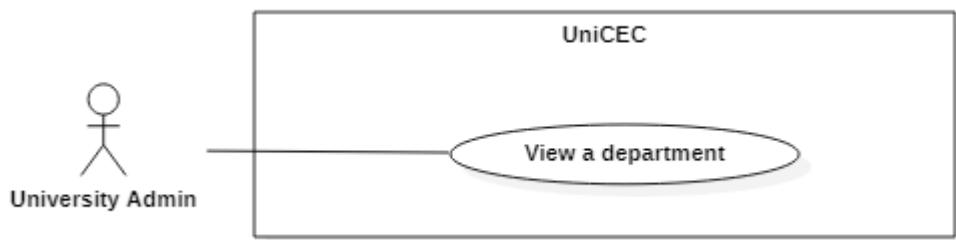


Figure 22. <University Admin> View a department

ID and Name:	UC-19 View a department		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	University Admin	Secondary Actors:	N/A
Description:	University Admin wants to view detail of department in university		
Trigger:	A university Admin clicks “Xem chi tiết” in dropdownbutton		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is University Admin in system 		
Post-conditions:	<ul style="list-style-type: none"> Success: System shows detail of department in university Fail: System show error message 		

Normal Flow:	Step	Actor actions	System responses									
	1	University Admin clicks “Quản lý chuyên ngành” on sidebar	<p>System responses table with following information:</p> <ul style="list-style-type: none"> • No • Department Code • Name • Major • Action: dropdown button ○ “Xem chi tiết” button ○ “Chỉnh sửa” button ○ “Xóa” button 									
	2	University Admin clicks “Xem chi tiết” on dropdown button in “hành động” field	<p>System responses popup with following information:</p> <ul style="list-style-type: none"> • Department Code • Name • Detail • Major • “Xóa ngành học” button • “Đóng” button <p>[Exception 1, 2]</p>									
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td><td>University Admin clicks “Xem chi tiết” on dropdown button in “hành động” field but nothing responses</td><td>System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	University Admin clicks “Xem chi tiết” on dropdown button in “hành động” field but nothing responses	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
No.	Causes	System Responses										
1	University Admin clicks “Xem chi tiết” on dropdown button in “hành động” field but nothing responses	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											

Business Rules:	<ul style="list-style-type: none"> Only University Admin can view detail of department All field is required
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 32. <University Admin> View a department

2.2.20. <University Admin> Search a department

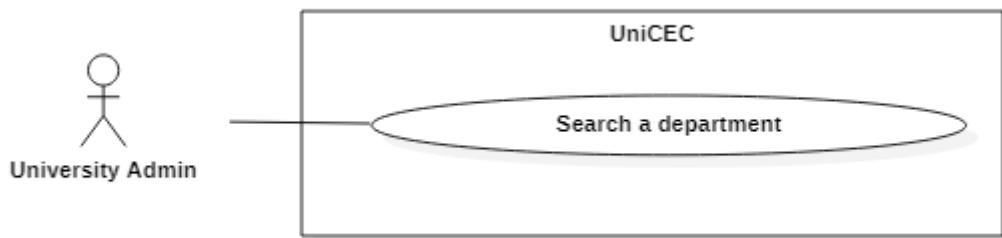


Figure 23. <University Admin> Search a department

ID and Name:	UC-20 Search a department		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	University Admin	Secondary Actors:	N/A
Description:	University Admin can search a department based on name of department in a university		
Trigger:	A university Admin clicks “Tìm kiếm” button		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is University Admin in system 		

Post-conditions:	<ul style="list-style-type: none"> Success: System shows department is founded in university Fail: System shows error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>University Admin input name of department</td><td>System finds in database</td></tr> <tr> <td>2</td><td>University Admin click “Tìm kiếm” button.</td><td> <p>System responses table with following information:</p> <ul style="list-style-type: none"> • No • Department Code • Name • Major • Action: dropdown button <ul style="list-style-type: none"> ○ “Xem chi tiết” button ○ “Chỉnh sửa” button ○ “Xóa” button <p>[Exception 1, 2] [Alternative 1]</p> </td></tr> </tbody> </table>			Step	Actor actions	System responses	1	University Admin input name of department	System finds in database	2	University Admin click “Tìm kiếm” button.	<p>System responses table with following information:</p> <ul style="list-style-type: none"> • No • Department Code • Name • Major • Action: dropdown button <ul style="list-style-type: none"> ○ “Xem chi tiết” button ○ “Chỉnh sửa” button ○ “Xóa” button <p>[Exception 1, 2] [Alternative 1]</p>
Step	Actor actions	System responses										
1	University Admin input name of department	System finds in database										
2	University Admin click “Tìm kiếm” button.	<p>System responses table with following information:</p> <ul style="list-style-type: none"> • No • Department Code • Name • Major • Action: dropdown button <ul style="list-style-type: none"> ○ “Xem chi tiết” button ○ “Chỉnh sửa” button ○ “Xóa” button <p>[Exception 1, 2] [Alternative 1]</p>										
Alternative Flows:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>2</td><td>University Admin clicks “Tìm kiếm” button while input empty information</td><td> <p>System does not response anything</p> <p>[Exception 1, 2]</p> </td></tr> </tbody> </table>			Step	Actor actions	System responses	2	University Admin clicks “Tìm kiếm” button while input empty information	<p>System does not response anything</p> <p>[Exception 1, 2]</p>			
Step	Actor actions	System responses										
2	University Admin clicks “Tìm kiếm” button while input empty information	<p>System does not response anything</p> <p>[Exception 1, 2]</p>										
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>A university Admin clicks “Tìm kiếm” button but no data major</td><td>System show “Danh sách trống”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	A university Admin clicks “Tìm kiếm” button but no data major	System show “Danh sách trống”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
No.	Causes	System Responses										
1	A university Admin clicks “Tìm kiếm” button but no data major	System show “Danh sách trống”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											

Business Rules:	<ul style="list-style-type: none"> Only University Admin, Club Manager can search a major in a university
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 33. <University Admin> Search a department

2.2.21. <University Admin> Create a club

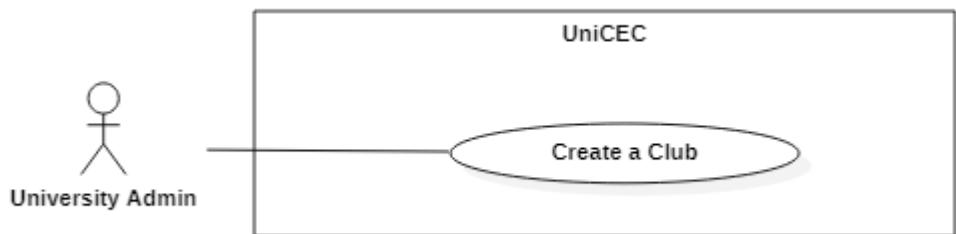


Figure 24. <University Admin> Create a club

ID and Name:	UC-21 Create a club		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	University Admin	Secondary Actors:	N/A
Description:	University Admin creates a new club in a university		
Trigger:	A University Admin clicks “Thêm mới” button		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is University Admin in system 		
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that create new club successfully Fail: System show error message 		

	Step	Actor actions	System responses
Normal Flow:	1	University Admin clicks “Tạo câu lạc bộ” button.	System show form create club
	2	University Admin input information	System allow System Admin to input with the following rules: <ul style="list-style-type: none"> • University: checklist, one choice, required • Name: text, required, 1-500 • Description:text, required, 1- Max • Image: string • Founding: datetime • ClubFanpage: text • ClubContact: text
	3	University Admin click “Hoàn Tất”	System responses notification “Tạo câu lạc bộ thành công” [Exception 1, 2]
Alternative Flows:	N/A		
Exceptions:	0.	Causes	System Responses
	1	University Admin clicks “Hoàn tất” but nothing response	System show “Tạo mới thất bại. Vui lòng thử lại sau.”
	2	Lost of internet connection	System show “Tạo mới thất bại. Mất kết nối internet.”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> • Only University Admin can create club 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 34. <University Admin> Create a club

2.2.22. <University Admin> Edit a club status

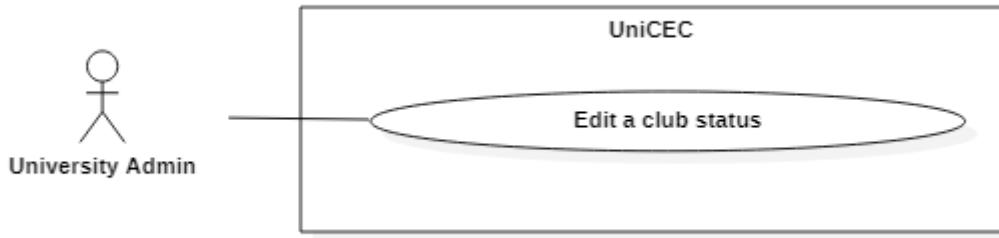


Figure 25. <University Admin> Edit a club status

ID and Name:	UC-22 Edit a club status								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	University Admin	Secondary Actors:	N/A						
Description:	A University Admin want to change status of club								
Trigger:	A University Admin clicks to switch button on the chosen row in the data table								
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is University Admin in system 								
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that change status club successfully Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>University Admin clicks the switch button the chosen row in the data table</td><td>System shows a table that on the user chosen row switch button will change status [Exception 1, 2]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	University Admin clicks the switch button the chosen row in the data table	System shows a table that on the user chosen row switch button will change status [Exception 1, 2]
Step	Actor actions	System responses							
1	University Admin clicks the switch button the chosen row in the data table	System shows a table that on the user chosen row switch button will change status [Exception 1, 2]							
Alternative Flows:	N/A								
Exception:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>University Admin click switch button but system response error message</td><td>System show "response error message"</td></tr> </tbody> </table>			o.	Causes	System Responses	1	University Admin click switch button but system response error message	System show "response error message"
o.	Causes	System Responses							
1	University Admin click switch button but system response error message	System show "response error message"							

	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only University Admin can update status club 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 35. <University Admin> Edit a club status

2.2.23. <University Admin> Delete a club



Figure 26. <University Admin> Delete a club

ID and Name:	UC-23 Delete a club		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	University Admin	Secondary Actors:	N/A
Description:	University Admin wants to delete a club out of university		
Trigger:	A club manager click “Xóa câu lạc bộ” button		

Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is University Admin in system 		
Post-conditions:	<ul style="list-style-type: none"> Success: System shows delete a club successfully Fail: System show error message 		
Normal Flow:			
Normal Flow:	Step	Actor actions	System responses
	1	A university Admin clicks “Quản lý câu lạc bộ” button on sidebar	<p>System shows table that include all of clubb is in university with following information:</p> <ul style="list-style-type: none"> No: number CLub Name: text NumberOfMember: number, int Action: dropdown button <ul style="list-style-type: none"> “Xem chi tiết”: button “Xóa”: button <p>[Exception 1, 3]</p>
	2	A university admin clicks “Xem chi tiết” button on dropdown button of action	<p>System shows popup that with following information of club:</p> <ul style="list-style-type: none"> Avatar: image Name: text Contact: text Create time: date time dd/mm/yyyy Total member: number, int Total competition and event: number, int “Xóa câu lạc bộ” button “Đóng” button <p>[Exception 1,3]</p>
Normal Flow:	3	A university admin clicks “Xóa câu lạc bộ” button on popup	<p>System responses message “Xóa câu lạc bộ thành công”</p> <p>[Exception 2,3]</p>

Alternative Flows:	N/A														
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>A university admin clicks “Xem chi tiết” button but cannot found data</td><td>System shows “Không tìm thấy dữ liệu. Vui lòng thử lại sau!”</td></tr> <tr> <td>2</td><td>Actor click “Xóa câu lạc bộ” button but not thing response</td><td>System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”</td></tr> <tr> <td>3</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	A university admin clicks “Xem chi tiết” button but cannot found data	System shows “Không tìm thấy dữ liệu. Vui lòng thử lại sau!”	2	Actor click “Xóa câu lạc bộ” button but not thing response	System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”	3	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
No.	Causes	System Responses													
1	A university admin clicks “Xem chi tiết” button but cannot found data	System shows “Không tìm thấy dữ liệu. Vui lòng thử lại sau!”													
2	Actor click “Xóa câu lạc bộ” button but not thing response	System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”													
3	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”													
Priority:	Medium														
Frequency of Use:	Regularly														
Business Rules:	<ul style="list-style-type: none"> Only University Admin can delete a club in a university 														
Other Information:	N/A														
Assumptions:	<p>Internet is available.</p> <p>System is working</p>														

Table 36. <University Admin> Delete a club

2.2.24. <University Admin> View a club

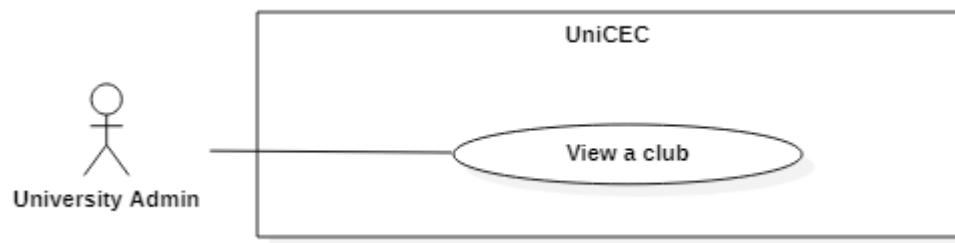


Figure 27. <University Admin> View a club

ID and Name:	UC-24 View a club							
Created By:	HuyVL	Date Created:	29/06/2022					
Primary Actor:	University Admin	Secondary Actors:	N/A					
Description:	University Admin can view detail of a club in a university							
Trigger:	A university admin click “Xem chi tiết” button on dropdown button							
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is University Admin in system 							
Post-conditions:	<ul style="list-style-type: none"> Success: System shows detail of club in a university Fail: System show error message 							
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A university Admin clicks “Quản lý câu lạc bộ” button on sidebar</td> <td> System shows table that include all of clubb is in university with following information: <ul style="list-style-type: none"> No: number CLub Name: text NumberOfMember: number, int Action: dropdown button <ul style="list-style-type: none"> “Xem chi tiết”: button </td> </tr> </tbody> </table>	Step	Actor actions	System responses	1	A university Admin clicks “Quản lý câu lạc bộ” button on sidebar	System shows table that include all of clubb is in university with following information: <ul style="list-style-type: none"> No: number CLub Name: text NumberOfMember: number, int Action: dropdown button <ul style="list-style-type: none"> “Xem chi tiết”: button 	
Step	Actor actions	System responses						
1	A university Admin clicks “Quản lý câu lạc bộ” button on sidebar	System shows table that include all of clubb is in university with following information: <ul style="list-style-type: none"> No: number CLub Name: text NumberOfMember: number, int Action: dropdown button <ul style="list-style-type: none"> “Xem chi tiết”: button 						

			<ul style="list-style-type: none"> ○ “Xóa”: button <p>[Exception 1, 2]</p>									
	2	A university admin clicks “Xem chi tiết” button on dropdown button of action	<p>System shows popup that with following information of club:</p> <ul style="list-style-type: none"> ● Avatar: image ● Name: text ● Contact: text ● Create time: date time dd/mm/yyyy ● Total member: number, int ● Total competition and event: number, int ● “Xóa câu lạc bộ” button ● “Đóng” button <p>[Exception 1,2]</p>									
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A university admin clicks “Xem chi tiết” button but cannot found data</td> <td>System shows “Không tìm thấy dữ liệu. Vui lòng thử lại sau!”</td> </tr> <tr> <td>2</td> <td>Lost of internet connection</td> <td>System shows “Mất kết nối internet. Vui lòng thử lại sau!”</td> </tr> </tbody> </table>			No.	Causes	System Responses	1	A university admin clicks “Xem chi tiết” button but cannot found data	System shows “Không tìm thấy dữ liệu. Vui lòng thử lại sau!”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau!”
No.	Causes	System Responses										
1	A university admin clicks “Xem chi tiết” button but cannot found data	System shows “Không tìm thấy dữ liệu. Vui lòng thử lại sau!”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau!”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> ● Only University Admin can view detail of club in a university 											

Other Information:	N/A
Assumptions:	Internet is available. System is working

Table 37. <University Admin> View a club

2.2.25. <University Admin> Search a club

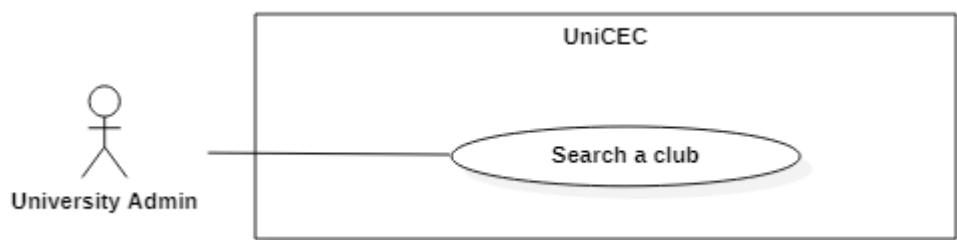


Figure 28. <University Admin> Search a club

ID and Name:	UC-25 Search a club		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	University Admin	Secondary Actors:	N/A
Description:	University Admin can search member based on name of club in a university		
Trigger:	A university Admin clicks “Tìm kiếm” button		
Preconditions:	<ul style="list-style-type: none"> • The account has active status • The account has a role is University Admin in system 		
Post-conditions:	<ul style="list-style-type: none"> • Success: System shows club is founded in university • Fail: System shows error message 		

Normal Flow:	Step	Actor actions	System responses
	1	University Admin input name of club	System finds in database
	2	University Admin click “Tìm kiếm” button.	<p>System shows table that include all of club is in university with following information:</p> <ul style="list-style-type: none"> ● No: number ● CLub Name: text ● NumberOfMember: number, int ● Action: dropdown button <p>“Xem chi tiết”: button “Xóa”: button</p> <p>[Exception 1, 2] [Alternative 1]</p>
Alternative Flows:			
	Step	Actor actions	System responses
	2	University Admin, clicks “Tìm kiếm” button while input empty information	System does not response anything [Exception 1, 2]
Exceptions:			
	No.	Causes	System Responses
	1	A university Admin clicks “Tìm kiếm” button but no data club	System show “Danh sách trống”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		

Business Rules:	<ul style="list-style-type: none"> Only University Admin can search a club in university Search club by name
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 38. <University Admin> Search a club

2.2.26. <University Admin> Set role Club Manager

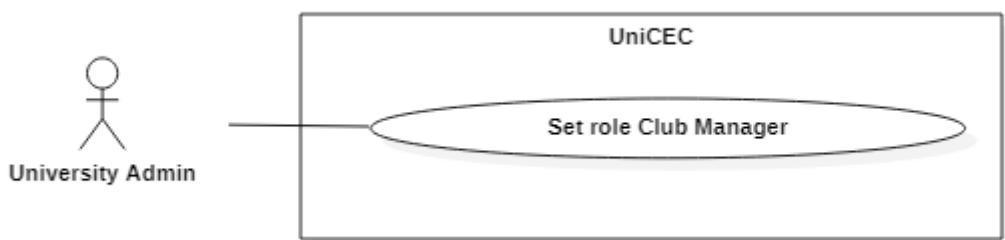


Figure 29. <University Admin> Set role Club Manager

ID and Name:	UC-26 Set Role Club Manager		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	University Admin	Secondary Actors:	N/A
Description:			
Trigger:	University Admin clicks “Chọn làm Chủ nhiệm câu lạc bộ” button		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has role is University Admin in system 		
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that set role club manager successfully Fail: System show error message 		

Normal Flow:												
	Step	Actor actions	System responses									
	1	University Admin clicks “Chọn làm Chủ nhiệm câu lạc bộ” button	System shows “Cập nhật thành công” [Exception 1,2]									
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <tr> <td>0.</td><td>Causes</td><td>System Responses</td></tr> <tr> <td>1</td><td>University Admin clicks “Chọn làm Chủ nhiệm câu lạc bộ” button but server response HTTP 400</td><td>System shows “Cập nhật không thành công”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </table>			0.	Causes	System Responses	1	University Admin clicks “Chọn làm Chủ nhiệm câu lạc bộ” button but server response HTTP 400	System shows “Cập nhật không thành công”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
0.	Causes	System Responses										
1	University Admin clicks “Chọn làm Chủ nhiệm câu lạc bộ” button but server response HTTP 400	System shows “Cập nhật không thành công”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> Only University Admin can set role club manager in system 											
Other Information:	N/A											
Assumptions:	Internet is available. System is working											

Table 40. <University Admin> Set role Club Manager

2.2.27. <Club Manager> Delete a member

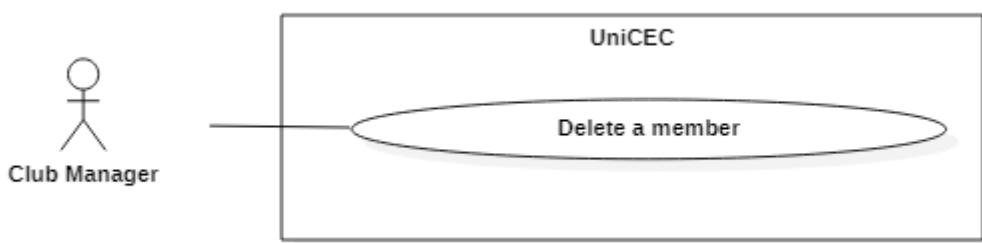


Figure 30. <Club Manager> Delete a member

ID and Name:	UC-27 Delete a member											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Club Manager	Secondary Actors:	N/A									
Description:	A Club Manager want to delete member in own club											
Trigger:	A Club Manager clicks to button “Xóa Thành Viên” on the chosen row in the data table											
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager in system 											
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that delete member in club successfully Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager clicks to button “Xóa Thành Viên” on the chosen row in the data table</td><td>System shows a confirm dialog:</td></tr> <tr> <td>2</td><td>Club Manager clicks to button “Đồng ý” button on confirm dialog</td><td>System responses notification “Xóa thành viên thành công” [Exception 1, 2]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Club Manager clicks to button “Xóa Thành Viên” on the chosen row in the data table	System shows a confirm dialog:	2	Club Manager clicks to button “Đồng ý” button on confirm dialog	System responses notification “Xóa thành viên thành công” [Exception 1, 2]
Step	Actor actions	System responses										
1	Club Manager clicks to button “Xóa Thành Viên” on the chosen row in the data table	System shows a confirm dialog:										
2	Club Manager clicks to button “Đồng ý” button on confirm dialog	System responses notification “Xóa thành viên thành công” [Exception 1, 2]										
Alternative Flows:	N/A											
Exception:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager click switch button “Đồng ý” button on confirm dialog but system response error message</td><td>System show “response error message”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			o.	Causes	System Responses	1	Club Manager click switch button “Đồng ý” button on confirm dialog but system response error message	System show “response error message”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses										
1	Club Manager click switch button “Đồng ý” button on confirm dialog but system response error message	System show “response error message”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> Only Club Manager can delete member in own club 											
Other Information:	N/A											
Assumptions:	Internet is available.											

	System is working
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Table 39. <Club Manager> Delete a member

2.2.28. <Club Manager> Approve a student

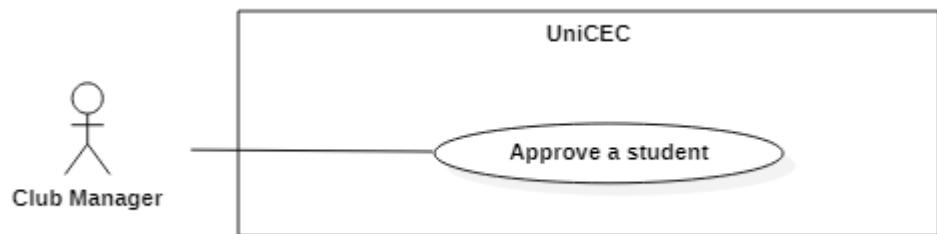


Figure 31. <Club Manager> Approve a student

ID and Name:	UC-27 Approve a student		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Manager	Secondary Actors:	N/A
Description:	Club Manager wants to add new student into a club		
Trigger:	A club manager click “Chấp thuận” button		
Preconditions:	<ul style="list-style-type: none"> ● The account has active status ● The account has a role is Club Manager in system 		
Post-conditions:	<ul style="list-style-type: none"> ● Success: System show notification that member was approved to participate in a club ● Fail: System show error message 		

Normal Flow:	Step	Actor actions	System responses									
	1	Club Manager clicks “Thành viên” button.	<p>System shows popup that include table with information of student want to participate in club:</p> <ul style="list-style-type: none"> • StudentCode: text • FullName: text • Participated time: dd/mm/yyyy • Action: View detail: icon Delete: icon <p>[Exception 1, 2]</p>									
	2	Club Manager, clicks “Xét duyệt” button.	<p>System shows popup that include information:</p> <ul style="list-style-type: none"> • StudentCode: text • FullName: text • Action: “Chấp thuận”: button “Từ chối”: button <p>[Exception 1, 2]</p>									
	3	Club Manager click “Chấp thuận” button in dropdown button of action	<p>System shows notification “Sinh viên được thêm vào câu lạc bộ thành công”</p> <p>[Exception 2]</p>									
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actor click “Thành viên” button but no data member</td><td>System show “Danh sách trống”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	Actor click “Thành viên” button but no data member	System show “Danh sách trống”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
No.	Causes	System Responses										
1	Actor click “Thành viên” button but no data member	System show “Danh sách trống”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											

Business Rules:	<ul style="list-style-type: none"> Only Club Manager can approve new student into a club
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 40. <Club Manager> Approve a student

2.2.29. <Club Manager> Reject a student

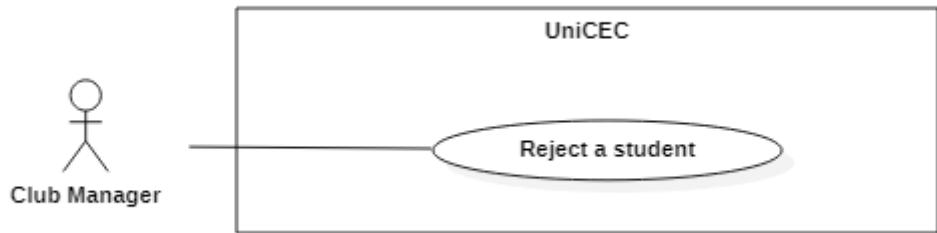


Figure 32. <Club Manager> Reject a student

ID and Name:	UC-23 Reject a student		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Manager	Secondary Actors:	N/A
Description:	Club Manager does not want to add new student into a club		
Trigger:	A club manager click "Reject" button		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager in system 		

Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that member was reject to participate in a club Fail: System show error message 														
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager click “Thành viên” button.</td><td> <p>System show table that include all of member is in club with following information:</p> <ul style="list-style-type: none"> • StudentCode: text • FullName: text • Role: text • Participated time: dd/mm/yyyy • Action: View detail: icon Delete: icon <p>[Exception 1, 2]</p> </td></tr> <tr> <td>2</td><td>Club Manager, clicks “Xét duyệt” button.</td><td> <p>System shows popup that include information:</p> <ul style="list-style-type: none"> • StudentCode: text • FullName: text • Action: dropdown button <p>“Chấp thuận”: button “Từ chối”: button</p> <p>[Exception 1, 2]</p> </td></tr> <tr> <td></td><td>Club Manager click “Từ chối” button in dropdown button of action</td><td> <p>System show notification “Từ chối sinh viên tham gia thành công.”</p> <p>[Exception 2]</p> </td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Club Manager click “Thành viên” button.	<p>System show table that include all of member is in club with following information:</p> <ul style="list-style-type: none"> • StudentCode: text • FullName: text • Role: text • Participated time: dd/mm/yyyy • Action: View detail: icon Delete: icon <p>[Exception 1, 2]</p>	2	Club Manager, clicks “Xét duyệt” button.	<p>System shows popup that include information:</p> <ul style="list-style-type: none"> • StudentCode: text • FullName: text • Action: dropdown button <p>“Chấp thuận”: button “Từ chối”: button</p> <p>[Exception 1, 2]</p>		Club Manager click “Từ chối” button in dropdown button of action	<p>System show notification “Từ chối sinh viên tham gia thành công.”</p> <p>[Exception 2]</p>
Step	Actor actions	System responses													
1	Club Manager click “Thành viên” button.	<p>System show table that include all of member is in club with following information:</p> <ul style="list-style-type: none"> • StudentCode: text • FullName: text • Role: text • Participated time: dd/mm/yyyy • Action: View detail: icon Delete: icon <p>[Exception 1, 2]</p>													
2	Club Manager, clicks “Xét duyệt” button.	<p>System shows popup that include information:</p> <ul style="list-style-type: none"> • StudentCode: text • FullName: text • Action: dropdown button <p>“Chấp thuận”: button “Từ chối”: button</p> <p>[Exception 1, 2]</p>													
	Club Manager click “Từ chối” button in dropdown button of action	<p>System show notification “Từ chối sinh viên tham gia thành công.”</p> <p>[Exception 2]</p>													
Alternative Flows:	N/A														
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actor click “Thành viên” button but no data member</td><td>System shows “Danh sách trống”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	Actor click “Thành viên” button but no data member	System shows “Danh sách trống”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”			
No.	Causes	System Responses													
1	Actor click “Thành viên” button but no data member	System shows “Danh sách trống”													
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”													

Priority:	Medium
Frequency of Use:	Regularly
Business Rules:	<ul style="list-style-type: none"> Only Club Manager can reject new member into a club
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 41. <Club Manager> Reject a student

2.2.30. <Club Manager> Set Role Competition Manager

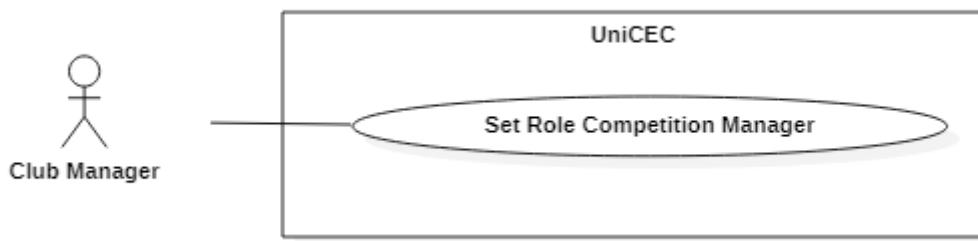


Figure 33. Figure 33. <Club Manager> Set Role Competition Manager

ID and Name:	UC-30 Set role Competition Manager		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Manager	Secondary Actors:	N/A
Description:	A Club Manager want to set role for member in own club into competition to support and manage competition or event		
Trigger:	A Club Manager clicks to dropdown button “Chức Vụ” on the chosen row in the data table and choose value		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager in system 		
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that update role for member in competition successfully Fail: System show error message 		

Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>A Club Manager clicks to dropdown button “Chức Vụ” on the chosen row in the data table and choose value</td><td>System responses notification “Cập nhật thành công” [Exception 1, 2]</td></tr> </tbody> </table>	Step	Actor actions	System responses	1	A Club Manager clicks to dropdown button “Chức Vụ” on the chosen row in the data table and choose value	System responses notification “Cập nhật thành công” [Exception 1, 2]				
Step	Actor actions	System responses									
1	A Club Manager clicks to dropdown button “Chức Vụ” on the chosen row in the data table and choose value	System responses notification “Cập nhật thành công” [Exception 1, 2]									
Alternative Flows:	N/A										
Exception:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager clicks to dropdown button “Chức Vụ” on the chosen row in the data table and choose value but system response error message</td><td>System shows “response error message”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>	o.	Causes	System Responses	1	Club Manager clicks to dropdown button “Chức Vụ” on the chosen row in the data table and choose value but system response error message	System shows “response error message”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”	
o.	Causes	System Responses									
1	Club Manager clicks to dropdown button “Chức Vụ” on the chosen row in the data table and choose value but system response error message	System shows “response error message”									
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”									
Priority:	Medium										
Frequency of Use:	Regularly										
Business Rules:	<ul style="list-style-type: none"> Only Club Manager can set role for member in own club to support and manage Competition or Event Only Competition or Event that Club Manager is joined or Owner it 										
Other Information:	N/A										
Assumptions:	Internet is available. System is working										

Table 42. Figure 33. <Club Manager> Set Role Competition Manager

2.2.31. <Club Manager> Search a member

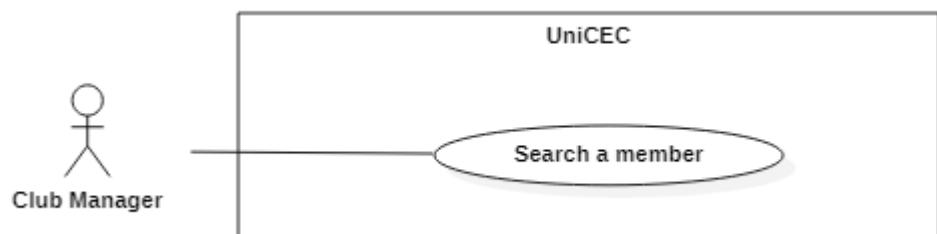


Figure 34. <Club Manager> Search a member

ID and Name:	UC-31 Search a member											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Club Manager	Secondary Actors:	University Admin, Member									
Description:	Club Manager, University Admin, Member can search member based on StudentCode or name of member in a club											
Trigger:	A club manager clicks “Tìm kiếm” button											
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has role is Club Manager, University Admin, Member in system 											
Post-conditions:	<ul style="list-style-type: none"> Success: System show list of members is in club with their role Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Club Manager, University Admin, Member input StudentCode or name</td> <td>System finds in database</td> </tr> <tr> <td>2</td> <td>Club Manager, University Admin, Member click “Tìm kiếm” button.</td> <td> <p>System show table that include member is in club with following information:</p> <ul style="list-style-type: none"> StudentCode: text FullName: text Role: text Participated time: dd/mm/yyyy Action: View detail: icon Delete: icon <p>[Exception 1, 2] [Alternative 1]</p> </td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Club Manager, University Admin, Member input StudentCode or name	System finds in database	2	Club Manager, University Admin, Member click “Tìm kiếm” button.	<p>System show table that include member is in club with following information:</p> <ul style="list-style-type: none"> StudentCode: text FullName: text Role: text Participated time: dd/mm/yyyy Action: View detail: icon Delete: icon <p>[Exception 1, 2] [Alternative 1]</p>
Step	Actor actions	System responses										
1	Club Manager, University Admin, Member input StudentCode or name	System finds in database										
2	Club Manager, University Admin, Member click “Tìm kiếm” button.	<p>System show table that include member is in club with following information:</p> <ul style="list-style-type: none"> StudentCode: text FullName: text Role: text Participated time: dd/mm/yyyy Action: View detail: icon Delete: icon <p>[Exception 1, 2] [Alternative 1]</p>										

Alternative Flows:			
	Step	Actor actions	System responses
	2	Club Manager, University Admin, Member click “Tim kiếm” button while input empty information	<p>System show table that include all member is in club with following information:</p> <ul style="list-style-type: none"> ● StudentCode: text ● FullName: text ● Role: text ● Participated time: dd/mm/yyyy ● Action: <ul style="list-style-type: none"> View detail: icon Delete: icon <p>[Exception 1, 2]</p>
Exceptions:			
Priority:	No.	Causes	System Responses
	1	Actor click “Search” button but no data member	System show “Danh sách trống”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> ● Only Club Manager, Member can view list of member in a club 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 43. <Club Manager> Search a member

2.2.32. <Club Manager> View a member

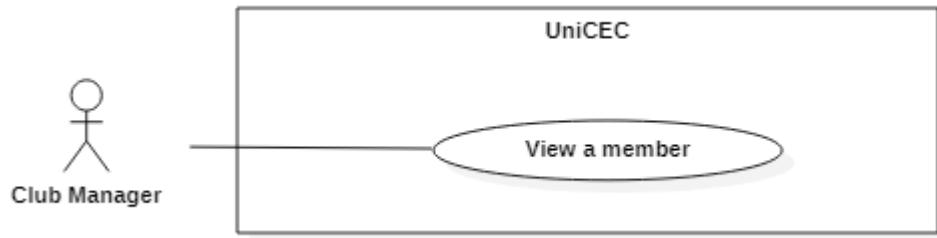


Figure 35. <Club Manager> View a member

ID and Name:	UC-32 View a member		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Manager	Secondary Actors:	University Admin, Member
Description:	Club Manager, Member can view detail member information in a club		
Trigger:	A club manager click “Xem thông tin” icon in field “hành động” of table		
Preconditions:	<ul style="list-style-type: none"> ● The account has active status ● The account has a role is Club Manager, University Admin, Member in system 		
Post-conditions:	<ul style="list-style-type: none"> ● Success: System show detail information of member is in club ● Fail: System show error message 		

Normal Flow:	Step	Actor actions	System responses									
	1	Club Manager, Member click “Xem thông tin” Icon.	<p>System show detail information of member is in club with following information:</p> <ul style="list-style-type: none"> • StudentCode: text • FullName: text • Role: text • Email: text • Phone number: number • Participated time: dd/mm/yyyy • Status: Offline or Online • “Xóa khỏi câu lạc bộ” button <p>[Exception 1, 2]</p>									
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actor click “Xem thông tin” Icon but no data member</td><td>System show “Thành viên chưa có thông tin”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	Actor click “Xem thông tin” Icon but no data member	System show “Thành viên chưa có thông tin”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
No.	Causes	System Responses										
1	Actor click “Xem thông tin” Icon but no data member	System show “Thành viên chưa có thông tin”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> • Only Club Manager, Member can view list of member in a club 											
Other Information:	N/A											

Assumptions:	Internet is available. System is working
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Table 44. <Club Manager> View a member

2.2.33. <Club Manager> Create a competition

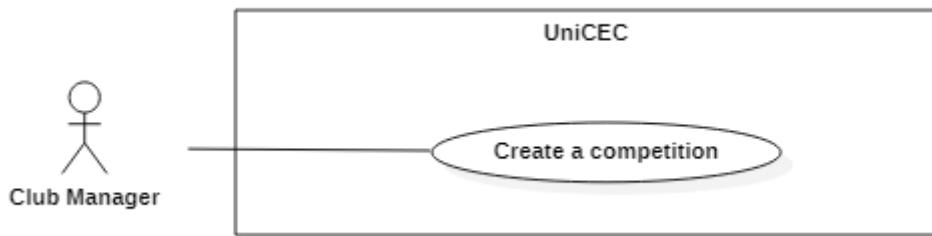


Figure 36. <Club Manager> Create a Competition

ID and Name:	UC-33 Create a competition					
Created By:	HuyVL	Date Created:	29/06/2022			
Primary Actor:	Club Manager	Secondary Actors:	N/A			
Description:	Club Manager can create new competition with the following information					
Trigger:	A club manager clicks “Tạo cuộc thi” button on sidebar					
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager in system 					
Post-conditions:	<ul style="list-style-type: none"> Success: System shows notification create new competition successfully Fail: System shows error message 					
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> </table>			Step	Actor actions	System responses
Step	Actor actions	System responses				

	1	Club Manager clicks “Tạo cuộc thi” button.	System show form create competition
	2	Club Manager input information	<p>System allow Club Manager to input with the following rules:</p> <ul style="list-style-type: none"> • Competition Type: checklist, one choice, required • Name: text, required, 1-500 characters • Start time competition: datetime, required, must be higher start register time • End time competition: datetime, required, must be higher than start time • Start Register time: datetime, required, must be higher than today hours • End register time: datetime, required, must be higher than start register time • Address: text, length 1-255 characters, required • Address name: text, length 1-100 characters, required • Content: text, max length, required • Image: text, base64, required • Major: text, checklist, multichoice, required • SeedPoint: number, required • Influencer: <ul style="list-style-type: none"> ◦ Name: text, 1-255 characters ◦ Image: text, 1-500 characters • Sponsor:

			<ul style="list-style-type: none"> ○ Name: text, 1-255 characters, required ○ Email: text, 1-255 characters, required ○ Website: text, 1-255 characters ○ Description: text, 1-500 characters ○ Image: text, 1-500 characters ● Fee: switch button, number, min is 1 ● Scope: checklist, one choice ● Participant settings: ○ MaxOfParticipant: number, min is 1, required ○ MinTeamRegistered: number, required ○ MaxParticipantsInTeam : ○ Exact: number, min is 1 ● Range: ○ MinNumber: number, min is 1 ○ MaxNumber: number, min is 1 <p>[Exception 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]</p>									
	3	Club Manager clicks “Hoàn tất” button	System responses notification “Tạo cuộc thi thành công” [Exception 1, 2]									
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager clicks “Hoàn tất” but nothing response</td><td>System shows “Tạo mới thất bại. Vui lòng thử lại sau.”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Tạo mới thất bại. Mất kết nối internet.”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	Club Manager clicks “Hoàn tất” but nothing response	System shows “Tạo mới thất bại. Vui lòng thử lại sau.”	2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”
No.	Causes	System Responses										
1	Club Manager clicks “Hoàn tất” but nothing response	System shows “Tạo mới thất bại. Vui lòng thử lại sau.”										
2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”										

	3	Name is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”
	4	Name is empty	System shows “Vui lòng không để trống ”
	5	Address name is over 500 characters	System shows “Tên địa chỉ quá dài. Vui lòng nhập từ 1-500 kí tự”
	6	Address name is empty	System shows “Vui lòng không để trống ”
	7	Address is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”
	8	Address name is empty	System shows “Vui lòng không để trống ”
	9	Name is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”
	10	Name is empty	System shows “Vui lòng không để trống ”
	11	Image is too big	System shows “Ảnh không hợp lệ ”
	12	NumberOfParticipant is over 42000	System shows “Số quá lớn. Vui lòng nhập số người tham gia bé hơn 42000 ”
Priority:	High		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> ● Only Club Manager can create a competition ● A competition after creation will be in Draft status ● All field is required ● Datetime format is dd/mm/yyyy ● Number member of team < Number participant ● If competition is a individual competition, participants still need to create a team with 1 student. ● If number of registered participants are over MaxOfParticipants, the system will not allow to participants to registered more 		

	<ul style="list-style-type: none"> • If number of team registered is not over MinTeamRegistered, the competition will not start and change status to pending • MaxTeamRegistered = MaxOfParticipants / MaxParticipantsInTeam • Time must be following this rule: Now < Start Time register < End time register < Ceremony time < Start time < End time
Other Information:	N/A
Assumptions:	Internet is available. System is working

Table 45. <Club Manager> Create a Competition

2.2.34. <Club Manager> Edit a competition

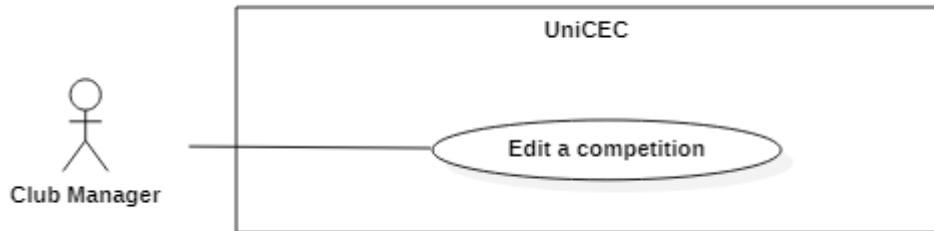


Figure 37. <Club Manager> Edit A Competition

ID and Name:	UC-34 Edit a competition		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Manager	Secondary Actors:	N/A
Description:	Club Manager wants to edit a detail of competition		

Trigger:	Club Manager clicks “Chỉnh sửa” button		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager in system 		
Post-conditions:	<ul style="list-style-type: none"> Success: Fail: System show error message 		
Normal Flow:	2	Club Manager input information	<p>System allow Club Manager to input with the following rules:</p> <ul style="list-style-type: none"> Competition Type: checklist, one choice, required Name: text, required, 1-500 characters Start time competition: datetime, required, must be higher start register time End time competition: datetime, required, must be higher than start time Start Register time: datetime, required, must be higher than today hours End register time: datetime, required, must be higher than start register time Address: text, length 1-255 characters, required Address name: text, length 1-100 characters, required Content: text, max length, required Image: text, base64, required Major: text, checklist, multichoice, required SeedPoint: number, required

			<ul style="list-style-type: none"> • Influencer: <ul style="list-style-type: none"> ○ Name: text, 1-255 characters ○ Image: text, 1-500 characters • Sponsor: <ul style="list-style-type: none"> ○ Name: text, 1-255 characters, required ○ Email: text, 1-255 characters, required ○ Website: text, 1-255 characters ○ Description: text, 1-500 characters ○ Image: text, 1-500 characters • Fee: switch button, number, min is 1 • Scope: checklist, one choice • Participant settings: <ul style="list-style-type: none"> ○ MaxOfParticipant: number, min is 1, required ○ MinTeamRegistered: number, required ○ MaxParticipantsInTeam : <ul style="list-style-type: none"> ○ Exact: number, min is 1 ● Range: <ul style="list-style-type: none"> ○ MinNumber: number, min is 1 ○ MaxNumber: number, min is 1 <p>[Exception 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]</p>						
Alternative Flows:	N/A								
Exceptions:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d9e1f2;"> <th style="text-align: center; padding: 2px;">No.</th> <th style="text-align: center; padding: 2px;">Causes</th> <th style="text-align: center; padding: 2px;">System Responses</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">1</td> <td style="padding: 2px;">Club Manager clicks “Hoàn tất” but nothing response</td> <td style="padding: 2px;">System shows “Tạo mới thất bại. Vui lòng thử lại sau.”</td> </tr> </tbody> </table>			No.	Causes	System Responses	1	Club Manager clicks “Hoàn tất” but nothing response	System shows “Tạo mới thất bại. Vui lòng thử lại sau.”
No.	Causes	System Responses							
1	Club Manager clicks “Hoàn tất” but nothing response	System shows “Tạo mới thất bại. Vui lòng thử lại sau.”							

	2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”
	3	Name is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”
	4	Name is empty	System shows “Vui lòng không để trống ”
	5	Address name is over 500 characters	System shows “Tên địa chỉ quá dài. Vui lòng nhập từ 1-500 kí tự”
	6	Address name is empty	System shows “Vui lòng không để trống ”
	7	Address is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”
	8	Address name is empty	System shows “Vui lòng không để trống ”
	9	Name is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”
	10	Name is empty	System shows “Vui lòng không để trống ”
	11	Image is too big	System shows “Ảnh không hợp lệ”
	12	NumberOfParticipant is over 42000	System shows “Số quá lớn. Vui lòng nhập số người tham gia bé hơn 42000 ”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> - Only Club Manager can edit a competition - In status Draft, Club Manager can edit all information of competition - In status Pending Review, Club Manager cannot edit competition - From status Approve to Start, Club Manager can only edit Start Time register, End time register, Ceremony time, Start time, End time 		

	<ul style="list-style-type: none"> - Time must be following this rule: Now < Start Time register < End time register < Ceremony time < Start time < End time - Competition can be change to status Pending from status Approve to UpComing - Competition can be change to status Canceling from status Draft to UpComing - In status Publish, Club Manager cannot edit title and content, just edit time - Datetime format is dd/mm/yyyy - Number member of team < Number participant - Number member of team < Number participant - If competition is a individual competition, participants still need to create a team with 1 student. - If number of registered participants are over MaxOfParticipants, the system will not allow to participants to registered more - If number of team registered is not over MinTeamRegistered, the competition will not start and change status to pending - MaxTeamRegistered = MaxOfParticipants / MaxParticipantsInTeam
Other Information:	N/A
Assumptions:	Internet is available. System is working

Table 46. <Club Manager> Edit A Competition

2.2.35. <Club Manager> Delete a competition

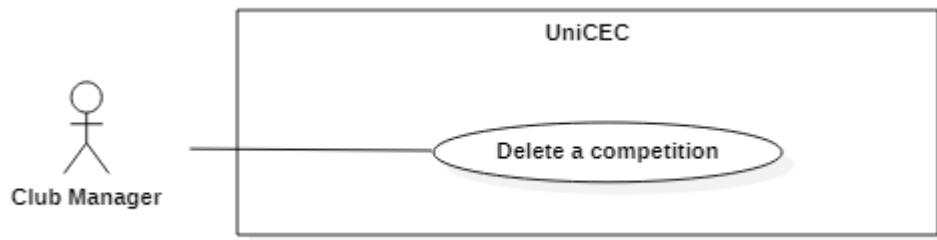


Figure 38. <Club Manager> Delete a competition

ID and Name:	UC-35 Delete a competition								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	Club Manager	Secondary Actors:	N/A						
Description:	A Club Manager want to delete a competition								
Trigger:	A club manager click “Xóa” button on detail page								
Preconditions:	<ul style="list-style-type: none"> - User login to web with Club Manager account - Account must be active 								
Post-conditions:	<ul style="list-style-type: none"> ● Success: System show notification that delete competition successfully ● Fail: System show error message 								
Normal Flow:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d9e1f2;"> <th style="padding: 2px;">Step</th> <th style="padding: 2px;">Actor actions</th> <th style="padding: 2px;">System responses</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">1</td> <td style="padding: 2px;">A club manager click “Xóa” button on detail page</td> <td style="padding: 2px;">System shows popup confirm message “Bạn chắc chắn muốn hủy cuộc thi này không?” with 2 options <ul style="list-style-type: none"> ● “Có” button ● “Không” button </td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	A club manager click “Xóa” button on detail page	System shows popup confirm message “Bạn chắc chắn muốn hủy cuộc thi này không?” with 2 options <ul style="list-style-type: none"> ● “Có” button ● “Không” button
Step	Actor actions	System responses							
1	A club manager click “Xóa” button on detail page	System shows popup confirm message “Bạn chắc chắn muốn hủy cuộc thi này không?” with 2 options <ul style="list-style-type: none"> ● “Có” button ● “Không” button 							

	2	Club Manager selects “Có”	System shows notification “Hủy cuộc thi thành công” [Alternative 1] [Exception 1, 2]									
Alternative Flows:	Alternative 1:											
	<table border="1"> <thead> <tr> <th>No</th><th>Actor actions</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager selects “Không”</td><td>System shows notification “Hủy cuộc thi thất bại”</td></tr> </tbody> </table>			No	Actor actions	System Responses	1	Club Manager selects “Không”	System shows notification “Hủy cuộc thi thất bại”			
No	Actor actions	System Responses										
1	Club Manager selects “Không”	System shows notification “Hủy cuộc thi thất bại”										
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager clicks “Hoàn tất” but nothing response</td><td>System shows “Tạo mới thất bại. Vui lòng thử lại sau.”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Tạo mới thất bại. Mất kết nối internet.”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	Club Manager clicks “Hoàn tất” but nothing response	System shows “Tạo mới thất bại. Vui lòng thử lại sau.”	2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”
No.	Causes	System Responses										
1	Club Manager clicks “Hoàn tất” but nothing response	System shows “Tạo mới thất bại. Vui lòng thử lại sau.”										
2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> ● Only Club Manager can delete competition ● Account must be active ● Club Manager can only delete a competition when it's in following status: <ul style="list-style-type: none"> + Draft + Pending Review + Approve + Publish + Register 											

	<ul style="list-style-type: none"> + UpComing + Pending
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 47. <Club Manager> Delete a competition

2.2.36. <Club Manager> Search a competition

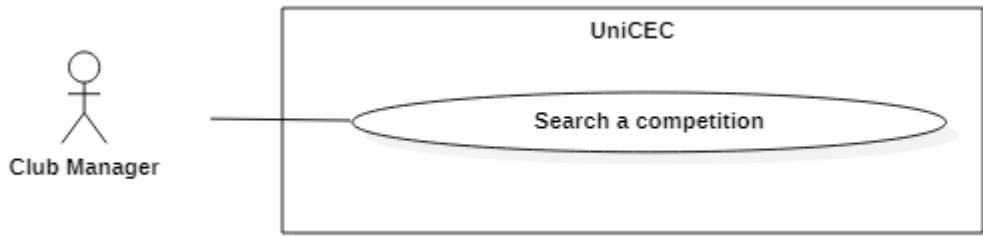


Figure 39. <Club Manager> Search a competition

ID and Name:	UC-11 add sponsor in competition		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Manager	Secondary Actors:	N/A
Description:	Club Manager can search a competition base on scope, status, name, view most		
Trigger:	A Club Manager click “Tìm Kiếm” button		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has role is Club Manager 		
Post-conditions:	<ul style="list-style-type: none"> Success: System show list of competitions Fail: System show error message 		

Normal Flow:	Step	Actor actions	System responses									
			<p>System show table that include competition with following information:</p> <ul style="list-style-type: none"> • Name: text • Image: file image, • Description: text, • StartTimeRegister: datetime • Fee: double • Scope: text • MajorInCompetition: List<Major> • isSponsor: bool • isEvent: bool • Status: Enum <p>[Exception 1, 2]</p>									
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td><td>A Club Manager click “Tìm Kiếm” button but no data found</td><td>System shows “Danh sách trống”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			o.	Causes	System Responses	1	A Club Manager click “Tìm Kiếm” button but no data found	System shows “Danh sách trống”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses										
1	A Club Manager click “Tìm Kiếm” button but no data found	System shows “Danh sách trống”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> • Only Club Manager can view all status of competition 											
Other Information:	N/A											
Assumptions:	<p>Internet is available.</p> <p>System is working</p>											

Table 48. <Club Manager> Search a competition

2.2.37. <Club Manager> Create an event

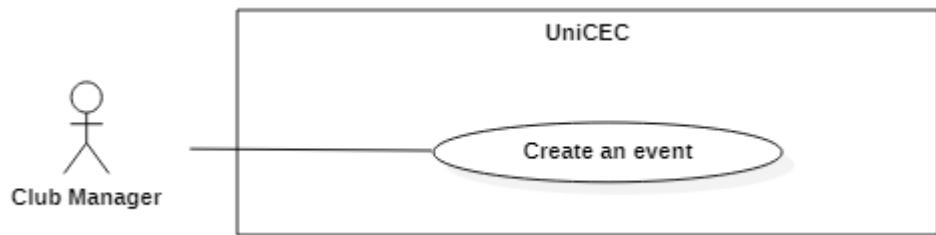


Figure 40. <Club Manager> Create an event

ID and Name:	UC-37 Create an event											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Club Manager	Secondary Actors:	N/A									
Description:	Club Manager can create new event with the following information											
Trigger:	A club manager click “Tạo cuộc thi” button on sidebar											
Preconditions:	<ul style="list-style-type: none"> ● The account has active status ● The account has a role is Club Manager in system 											
Post-conditions:	<ul style="list-style-type: none"> ● Success: System show notification create new competition successfully ● Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Club Manager clicks “Tạo cuộc thi” button.</td> <td>System show form create competition</td> </tr> <tr> <td>2</td> <td>Club Manager input information</td> <td> System allow Club Manager to input with the following rules: <ul style="list-style-type: none"> ● Competition Type: checklist, one choice, required ● Name: text, required, 1-500 characters </td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Club Manager clicks “Tạo cuộc thi” button.	System show form create competition	2	Club Manager input information	System allow Club Manager to input with the following rules: <ul style="list-style-type: none"> ● Competition Type: checklist, one choice, required ● Name: text, required, 1-500 characters
Step	Actor actions	System responses										
1	Club Manager clicks “Tạo cuộc thi” button.	System show form create competition										
2	Club Manager input information	System allow Club Manager to input with the following rules: <ul style="list-style-type: none"> ● Competition Type: checklist, one choice, required ● Name: text, required, 1-500 characters 										

			<ul style="list-style-type: none"> ● Start time competition: datetime, required, must be higher start register time ● End time competition: datetime, required, must be higher than start time ● Start Register time: datetime, required, must be higher than today hours ● End register time: datetime, required, must be higher than start register time ● Address: text, length 1-255 characters, required ● Address name: text, length 1-100 characters, required ● Content: text, max length, required ● Image: text, base64, required ● Major: text, checklist, multichoice, required ● SeedPoint: number, required ● MaxRegistered: number, required ● MinRegistered: number, required ● Influencer: <ul style="list-style-type: none"> ○ Name: text, 1-255 characters ○ Image: text, 1-500 characters ● Sponsor: <ul style="list-style-type: none"> ○ Name: text, 1-255 characters, required ○ Email: text, 1-255 characters, required
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			<ul style="list-style-type: none"> ○ Website: text, 1-255 characters ○ Description: text, 1-500 characters ○ Image: text, 1-500 characters ● Fee: number ● Scope: checklist, one choice ● NumberOfParticipant : number, required <p>[Exception 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]</p>
	3	Club Manager clicks “Hoàn tất” button	System responses notification “Tạo sự kiện thành công” [Exception 1, 2]
Alternative Flows:	N/A		
Exceptions:	No.	Causes	System Responses
	1	Club Manager clicks “Hoàn tất” but nothing response	System shows “Tạo mới thất bại. Vui lòng thử lại sau.”
	2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”
	3	Name is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”
	4	Name is empty	System shows “Vui lòng không để trống”
	5	Address name is over 500 characters	System shows “Tên địa chỉ quá dài. Vui lòng nhập từ 1-500 kí tự”
	6	Address name is empty	System shows “Vui lòng không để trống”
	7	Address is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”
	8	Address name is empty	System shows “Vui lòng không để trống”
	9	Name is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”
	10	Name is empty	System shows “Vui lòng không để trống”

	11	Image is too big	System shows “Ảnh không hợp lệ”
	12	NumberOfParticipant is over 42000	System shows “Số quá lớn, vui lòng nhập lại”
Priority:	High		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> ● Only Club Manager can create an event ● An event after creation will be in Draft status ● All field is required ● Time must be following this rule: Start Time register < End time register < Ceremony time < Start time < End time 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 49. <Club Manager> Create an event

2.2.38. <Club Manager> Edit an event

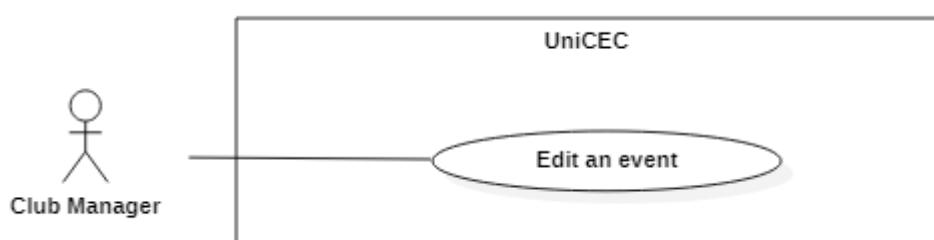


Figure 41. <Club Manager> Edit an event

ID and Name:	UC-38 Edit a event
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Created By:	HuyVL	Date Created:	29/06/2022								
Primary Actor:	Club Manager	Secondary Actors:	N/A								
Description:	Club Manager wants to edit a detail of event										
Trigger:	Club Manager clicks “Chỉnh sửa” button										
Preconditions:	<ul style="list-style-type: none"> ● The account has active status ● The account has a role is Club Manager in system 										
Post-conditions:	<ul style="list-style-type: none"> ● Success: ● Fail: System show error message 										
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Club Manager clicks “Tạo cuộc thi” button.</td> <td>System show form create competition</td> </tr> <tr> <td>2</td> <td>Club Manager input information</td> <td> <p>System allow Club Manager to input with the following rules:</p> <ul style="list-style-type: none"> ● Competition Type: checklist, one choice, required ● Name: text, required, 1-500 characters ● Start time competition: datetime, required, must be higher start register time ● End time competition: datetime, required, must be higher than start time ● Start Register time: datetime, required, must be higher than today hours ● End register time: datetime, required, </td> </tr> </tbody> </table>		Step	Actor actions	System responses	1	Club Manager clicks “Tạo cuộc thi” button.	System show form create competition	2	Club Manager input information	<p>System allow Club Manager to input with the following rules:</p> <ul style="list-style-type: none"> ● Competition Type: checklist, one choice, required ● Name: text, required, 1-500 characters ● Start time competition: datetime, required, must be higher start register time ● End time competition: datetime, required, must be higher than start time ● Start Register time: datetime, required, must be higher than today hours ● End register time: datetime, required,
Step	Actor actions	System responses									
1	Club Manager clicks “Tạo cuộc thi” button.	System show form create competition									
2	Club Manager input information	<p>System allow Club Manager to input with the following rules:</p> <ul style="list-style-type: none"> ● Competition Type: checklist, one choice, required ● Name: text, required, 1-500 characters ● Start time competition: datetime, required, must be higher start register time ● End time competition: datetime, required, must be higher than start time ● Start Register time: datetime, required, must be higher than today hours ● End register time: datetime, required, 									

			<ul style="list-style-type: none"> must be higher than start register time ● Address: text, length 1-255 characters, required ● Address name: text, length 1-100 characters, required ● Content: text, max length, required ● Image: text, base64, required ● Major: text, checklist, multichoice, required ● SeedPoint: number, required ● MaxRegistered: number, required ● MinRegistered: number, required ● Influencer: <ul style="list-style-type: none"> ○ Name: text, 1-255 characters ○ Image: text, 1-500 characters ● Sponsor: <ul style="list-style-type: none"> ○ Name: text, 1-255 characters, required ○ Email: text, 1-255 characters, required ○ Website: text, 1-255 characters ○ Description: text, 1-500 characters ○ Image: text, 1-500 characters ● Fee: number ● Scope: checklist, one choice ● NumberOfParticipant : number, required <p>[Exception 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]</p>
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	3	Club Manager clicks “Cập nhật” button	System show notification “Cập nhật thành công” [Exception 1, 2]																																	
Alternative Flows:	N/A																																			
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Club Manager clicks “Hoàn tất” but nothing response</td> <td>System shows “Tạo mới thất bại. Vui lòng thử lại sau.”</td> </tr> <tr> <td>2</td> <td>Lost of internet connection</td> <td>System shows “Tạo mới thất bại. Mất kết nối internet.”</td> </tr> <tr> <td>3</td> <td>Name is over 500 characters</td> <td>System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”</td> </tr> <tr> <td>4</td> <td>Name is empty</td> <td>System shows “Vui lòng không để trống”</td> </tr> <tr> <td>5</td> <td>Address name is over 500 characters</td> <td>System shows “Tên địa chỉ quá dài. Vui lòng nhập từ 1-500 kí tự”</td> </tr> <tr> <td>6</td> <td>Address name is empty</td> <td>System shows “Vui lòng không để trống”</td> </tr> <tr> <td>7</td> <td>Address is over 500 characters</td> <td>System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”</td> </tr> <tr> <td>8</td> <td>Address name is empty</td> <td>System shows “Vui lòng không để trống”</td> </tr> <tr> <td>9</td> <td>Name is over 500 characters</td> <td>System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”</td> </tr> <tr> <td>10</td> <td>Name is empty</td> <td>System shows “Vui lòng không để trống”</td> </tr> </tbody> </table>			No.	Causes	System Responses	1	Club Manager clicks “Hoàn tất” but nothing response	System shows “Tạo mới thất bại. Vui lòng thử lại sau.”	2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”	3	Name is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”	4	Name is empty	System shows “Vui lòng không để trống”	5	Address name is over 500 characters	System shows “Tên địa chỉ quá dài. Vui lòng nhập từ 1-500 kí tự”	6	Address name is empty	System shows “Vui lòng không để trống”	7	Address is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”	8	Address name is empty	System shows “Vui lòng không để trống”	9	Name is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”	10	Name is empty	System shows “Vui lòng không để trống”
No.	Causes	System Responses																																		
1	Club Manager clicks “Hoàn tất” but nothing response	System shows “Tạo mới thất bại. Vui lòng thử lại sau.”																																		
2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”																																		
3	Name is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”																																		
4	Name is empty	System shows “Vui lòng không để trống”																																		
5	Address name is over 500 characters	System shows “Tên địa chỉ quá dài. Vui lòng nhập từ 1-500 kí tự”																																		
6	Address name is empty	System shows “Vui lòng không để trống”																																		
7	Address is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”																																		
8	Address name is empty	System shows “Vui lòng không để trống”																																		
9	Name is over 500 characters	System shows “Tên quá dài. Vui lòng nhập từ 1-500 kí tự”																																		
10	Name is empty	System shows “Vui lòng không để trống”																																		

	11	Image is too big	System shows “Ảnh không hợp lệ”
	12	NumberOfParticipant is over 42000	System shows “Số quá lớn. Vui lòng nhập số người tham gia bé hơn 42000”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> - Only Club Manager can edit an event - In status Draft, Club Manager can edit all information of event - In status Pending Review, Club Manager cannot edit event - From status Approve to Start, Club Manager can only edit Start Time register, End time register, Ceremony time, Start time, End time - Time must be following this rule: Now < Start Time register < End time register < Ceremony time < Start time < End time <ul style="list-style-type: none"> - Event can be change to status Pending from status Approve to UpComing - Event can be change to status Canceling from status Draft to UpComing - In status Publish, Club Manager cannot edit title and content, just edit time - Datetime format is dd/mm/yyyy - Number member of team < Number participant 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 50. <Club Manager> Edit an event

2.2.39. <Club Manager> Delete an event

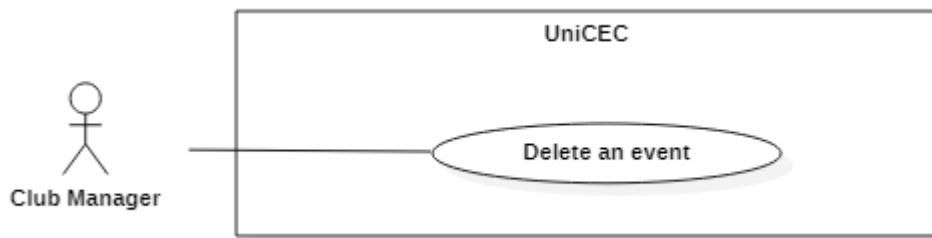


Figure 42. <Club Manager> Delete an event

ID and Name:	UC-39 Delete an event								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	Club Manager	Secondary Actors:	N/A						
Description:	A Club Manager want to delete an event								
Trigger:	A club manager clicks “Xóa” button on detail page								
Preconditions:	<ul style="list-style-type: none"> - User login to web with Club Manager account - Account must be active 								
Post-conditions:	<ul style="list-style-type: none"> ● Success: System show notification that delete an event successfully ● Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>A club manager click “Xóa” button on detail page</td><td> System shows popup confirm message “Bạn chắc chắn muốn hủy sự kiện này không?” with 2 options <ul style="list-style-type: none"> ● “Có” button ● “Không” button </td></tr> </tbody> </table>			Step	Actor actions	System responses	1	A club manager click “Xóa” button on detail page	System shows popup confirm message “Bạn chắc chắn muốn hủy sự kiện này không?” with 2 options <ul style="list-style-type: none"> ● “Có” button ● “Không” button
Step	Actor actions	System responses							
1	A club manager click “Xóa” button on detail page	System shows popup confirm message “Bạn chắc chắn muốn hủy sự kiện này không?” with 2 options <ul style="list-style-type: none"> ● “Có” button ● “Không” button 							

	2	Club Manager selects “Có”	System shows notification “Hủy sự kiện thành công” [Alternative 1] [Exception 1]
Alternative Flows:			
		Actor actions	System Responses
1		Club Manager selects “Không”	System shows notification “Hủy sự kiện thất bại”
Exceptions:			
		Causes	System Responses
1		Lost of internet connection	System show “Xóa thất bại. Mất kết nối internet.”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> ● Only Club Manager can delete an event ● Account must be active ● Club Manager can only delete an event when it's in following status: <ul style="list-style-type: none"> + Draft + Pending Review + Approve + Publish + Register + UpComming + Pending 		

Other Information:	N/A
Assumptions:	Internet is available. System is working

Table 51. <Club Manager> Delete an event

2.2.40. <Club Manager> Search an event

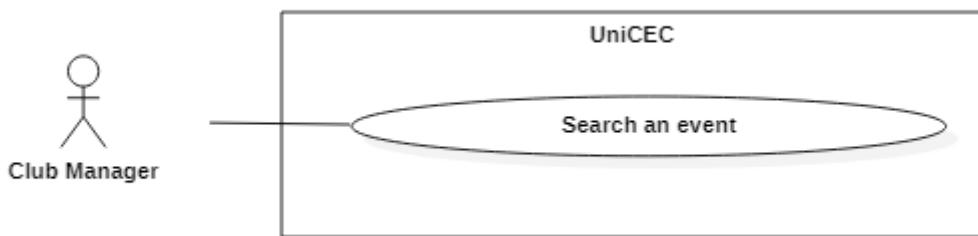


Figure 43. <Club Manager> Search an event

ID and Name:	UC-40 Search an event		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Manager	Secondary Actors:	N/A
Description:	Club Manager can search a event base on scope, status, name, view most		
Trigger:	A Club Manager click “Tìm Kiếm” button		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager 		
Post-conditions:	<ul style="list-style-type: none"> Success: System show list of events Fail: System show error message 		

Normal Flow:	Step	Actor actions	System responses									
			System show table that include event with following information: <ul style="list-style-type: none"> • Name: text • Image: file image, • Description: text, • StartTimeRegister: datetime • Fee: double • Scope: text • MajorInCompetition: List<Major> • isSponsor: bool • isEvent: bool • Status: Enum [Exception 1, 2]									
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>A Club Manager click “Tìm Kiếm” button but no data found</td><td>System show “Danh sách trống”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			o.	Causes	System Responses	1	A Club Manager click “Tìm Kiếm” button but no data found	System show “Danh sách trống”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses										
1	A Club Manager click “Tìm Kiếm” button but no data found	System show “Danh sách trống”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> • Only Club Manager can view all status of event 											
Other Information:	N/A											
Assumptions:	Internet is available. System is working											

Table 52. <Club Manager> Search an event

2.2.41. <Club Manager> View an event

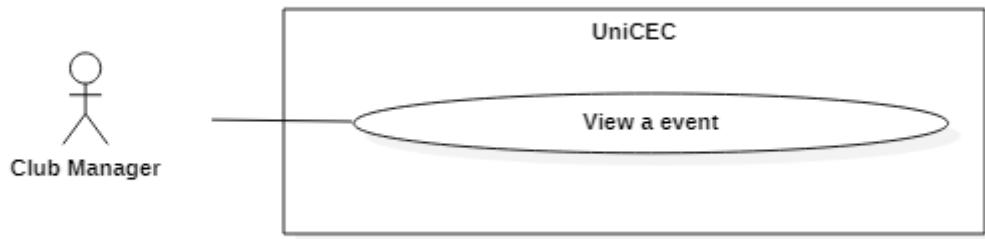


Figure 44. <Club Manager> View an event

ID and Name:	UC-41 View an event								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	Club Manager	Secondary Actors:	N/A						
Description:	Club Manager want view a event								
Trigger:	A Club Manager click "Xem chi tiết" button								
Preconditions :	<ul style="list-style-type: none"> The account has active status The account has role is Club Manager 								
Post-conditions:	<ul style="list-style-type: none"> Success: System show a detail a event Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Club Manager click "Xem chi tiết" button.</td> <td> System show table that include event with foll information: <ul style="list-style-type: none"> Name: text Image: file image, Description: text, StartTimeRegister: datetime EndTimeRegister: datetime, CeremonyTime: datetime StartTime: datetime, EndTime: datetime, Content: text Fee: double Scope: text Address: text AddressName: text SeedsPoint: double </td> </tr> </tbody> </table>	Step	Actor actions	System responses	1	Club Manager click "Xem chi tiết" button.	System show table that include event with foll information: <ul style="list-style-type: none"> Name: text Image: file image, Description: text, StartTimeRegister: datetime EndTimeRegister: datetime, CeremonyTime: datetime StartTime: datetime, EndTime: datetime, Content: text Fee: double Scope: text Address: text AddressName: text SeedsPoint: double 		
Step	Actor actions	System responses							
1	Club Manager click "Xem chi tiết" button.	System show table that include event with foll information: <ul style="list-style-type: none"> Name: text Image: file image, Description: text, StartTimeRegister: datetime EndTimeRegister: datetime, CeremonyTime: datetime StartTime: datetime, EndTime: datetime, Content: text Fee: double Scope: text Address: text AddressName: text SeedsPoint: double 							

			<ul style="list-style-type: none"> • MajorInCompetition: List<Major> • CompetitionEntities:List<CompetitionEntity> • isSponsor: bool • isEvent: bool • Status: Enum • CompetitionInClub: List<CompetitionInClub> <p>[Exception 1, 2]</p>										
Alternative Flows:	N/A												
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager click “Xem chi tiết” button but system response error message</td><td>System shows “response error message”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>				o.	Causes	System Responses	1	Club Manager click “Xem chi tiết” button but system response error message	System shows “response error message”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses											
1	Club Manager click “Xem chi tiết” button but system response error message	System shows “response error message”											
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”											
Priority:	Medium												
Frequency of Use:	Regularly												
Business Rules:	<ul style="list-style-type: none"> • Only Club Manager can view all status of event • Can't view Team and Round in Event 												
Other Information:	N/A												
Assumptions:	Internet is available. System is working												

Table 53. <Club Manager> View an event

2.2.42. < Club Manager> Edit seedpoints

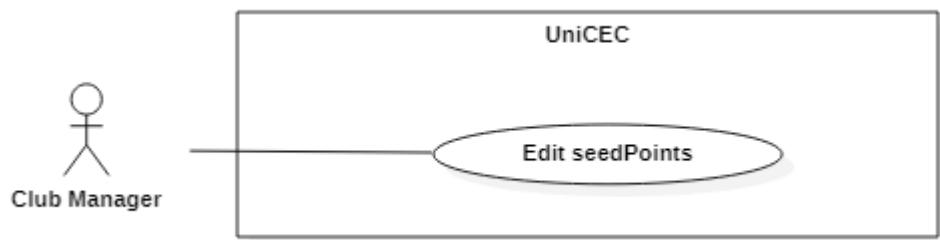


Figure 45. <Club Manager> Edit seedpoints

ID and Name:	UC-42 Edit seedpoints											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Club Manager	Secondary Actors:	N/A									
Description:	A Club Manager can edit seedpoints in competition, activity											
Trigger:	A club manager clicks “Điểm thưởng” textbox on sidebar											
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager 											
Post-conditions:	<ul style="list-style-type: none"> Success: System shows “Điểm thưởng” changing successfully in competition Fail: System shows error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Club Manager clicks “điểm thưởng” textbox.</td> <td>System show allows to input seed points in textbox [Exception 1, 2]</td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Club Manager clicks “điểm thưởng” textbox.	System show allows to input seed points in textbox [Exception 1, 2]			
Step	Actor actions	System responses										
1	Club Manager clicks “điểm thưởng” textbox.	System show allows to input seed points in textbox [Exception 1, 2]										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>No</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Club Manager click “Thêm điểm thưởng” button notting responses</td> <td>System show “Đã có lỗi xảy ra. Vui lòng thử lại”</td> </tr> <tr> <td>2</td> <td>Club Manager adds more than 100 points</td> <td>System show “Điểm thưởng từ 1-100 điểm”</td> </tr> </tbody> </table>			No	Causes	System Responses	1	Club Manager click “Thêm điểm thưởng” button notting responses	System show “Đã có lỗi xảy ra. Vui lòng thử lại”	2	Club Manager adds more than 100 points	System show “Điểm thưởng từ 1-100 điểm”
No	Causes	System Responses										
1	Club Manager click “Thêm điểm thưởng” button notting responses	System show “Đã có lỗi xảy ra. Vui lòng thử lại”										
2	Club Manager adds more than 100 points	System show “Điểm thưởng từ 1-100 điểm”										

	3	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:		<ul style="list-style-type: none"> Only Competition Manager can add seedpoints 	
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 54. <Club Manager> Edit seedpoints

2.2.43. <Club Manager> Add a sponsor

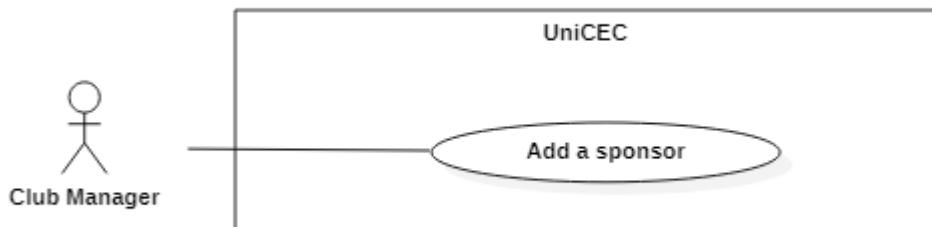


Figure 46. <Club Manager> Add a sponsor

ID and Name:	UC-43 Add a sponsor		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Manager	Secondary Actors:	N/A
Description:	Club Manager can add sponsor in competition		
Trigger:	A club manager click “Thêm nhà tài trợ” button on sidebar		

Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager 											
Post-conditions:	<ul style="list-style-type: none"> Success: Small icon will show in “Nhà tài trợ:” on sidebar Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager, click “Thêm nhà tài trợ” button.</td><td> <p>System show dialog that include all field of information of sponsor with following information:</p> <ul style="list-style-type: none"> Họ và tên: text Email: text Website: text Mô tả: text Ảnh: file image <p>[Exception 1, 2]</p> </td></tr> <tr> <td>2</td><td>Club Manager input information and clicks “Thêm mới”</td><td> <p>System responses “Thêm mới nhà tài trợ”</p> <p>[Exception 1, 2]</p> </td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Competition Manager, click “Thêm nhà tài trợ” button.	<p>System show dialog that include all field of information of sponsor with following information:</p> <ul style="list-style-type: none"> Họ và tên: text Email: text Website: text Mô tả: text Ảnh: file image <p>[Exception 1, 2]</p>	2	Club Manager input information and clicks “Thêm mới”	<p>System responses “Thêm mới nhà tài trợ”</p> <p>[Exception 1, 2]</p>
Step	Actor actions	System responses										
1	Competition Manager, click “Thêm nhà tài trợ” button.	<p>System show dialog that include all field of information of sponsor with following information:</p> <ul style="list-style-type: none"> Họ và tên: text Email: text Website: text Mô tả: text Ảnh: file image <p>[Exception 1, 2]</p>										
2	Club Manager input information and clicks “Thêm mới”	<p>System responses “Thêm mới nhà tài trợ”</p> <p>[Exception 1, 2]</p>										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actor click “Thêm mới +” button but no data in fields : Họ và tên, Email</td><td>System show “Vui lòng điền đầy đủ thông tin”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	Actor click “Thêm mới +” button but no data in fields : Họ và tên, Email	System show “Vui lòng điền đầy đủ thông tin”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
No.	Causes	System Responses										
1	Actor click “Thêm mới +” button but no data in fields : Họ và tên, Email	System show “Vui lòng điền đầy đủ thông tin”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> Only Competition Manager can add sponsor Sponsor can only add, edit and delete in draft status of competition 											
Other Information:	N/A											
Assumptions:	<p>Internet is available.</p> <p>System is working</p>											

Table 55. <Club Manager> Add a sponsor

2.2.44. <Club Manager> Delete a sponsor

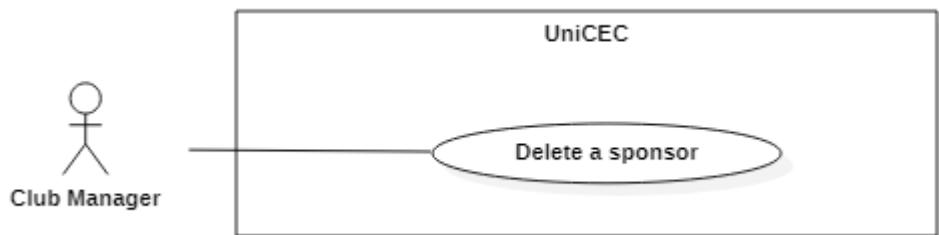


Figure 47. <Club Manager> Delete a sponsor

ID and Name:	UC-44 Delete a sponsor											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Club Manager	Secondary Actors:	N/A									
Description:	Club Manager can delete a sponsor in competition											
Trigger:	A club manager clicks “Xóa nhà tài trợ” button on sidebar											
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager 											
Post-conditions:	<ul style="list-style-type: none"> Success: System remove small icon of “Nhà tài trợ” on sidebar Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager clicks “Xóa nhà tài trợ” button.</td><td>System show dialog “Bạn có muốn xóa nhà tài trợ?” with 2 options: “Có” button “Không” button [Exception 1, 2]</td></tr> <tr> <td>2</td><td>Club Manager clicks “Có” button.</td><td>System shows “Xóa nhà tài trợ thành công.” [Exception 1, 2] [Alternative 1]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Club Manager clicks “Xóa nhà tài trợ” button.	System show dialog “Bạn có muốn xóa nhà tài trợ?” with 2 options: “Có” button “Không” button [Exception 1, 2]	2	Club Manager clicks “Có” button.	System shows “Xóa nhà tài trợ thành công.” [Exception 1, 2] [Alternative 1]
Step	Actor actions	System responses										
1	Club Manager clicks “Xóa nhà tài trợ” button.	System show dialog “Bạn có muốn xóa nhà tài trợ?” with 2 options: “Có” button “Không” button [Exception 1, 2]										
2	Club Manager clicks “Có” button.	System shows “Xóa nhà tài trợ thành công.” [Exception 1, 2] [Alternative 1]										
Alternative Flows:	No	Actor actions	System responses									

	1	Club Manager clicks “Không” button	System responses “Bạn đã hủy xóa nhà tài trợ”			
Exceptions:						
	No.	Causes	System Responses			
	1	Club Manager clicks “Có” button but system doesn't response anything	System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”			
	2	Participant clicks “Không” button but system doesn't response anything	System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”			
	3	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”			
Priority:	Medium					
Frequency of Use:	Regularly					
Business Rules:	<ul style="list-style-type: none"> Only Competition Manager can delete sponsor Sponsor can only add, edit and delete in draft status of competition 					
Other Information:	N/A					
Assumptions:	Internet is available. System is working					

Table 56. <Club Manager> Delete a sponsor

2.2.45. <Club Manager> Add a co-operator

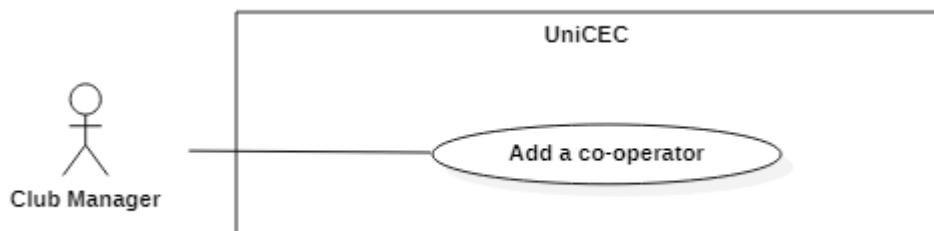


Figure 48. <Club Manager> Add a co-operator

ID and Name:	UC-45 Add a co-operator											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Club Manager	Secondary Actors:	N/A									
Description:	Club Manager can add another club in Competition and Event											
Trigger:	A Club Manager clicks “Quản lý câu lạc bộ” button on edit page Competition and Event											
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager 											
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that add a co-operator successfully Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager clicks “Quản lý câu lạc bộ”</td><td>System show dialog that include all field of information of club collaborate with following information: <ul style="list-style-type: none"> Trường: dropdown menu Câu lạc bộ: dropdown menu </td></tr> <tr> <td>2</td><td>Club Manager input information and clicks “Thêm mới”</td><td>System responses “Thêm mới câu lạc bộ thành công” [Exception 1, 2]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Club Manager clicks “Quản lý câu lạc bộ”	System show dialog that include all field of information of club collaborate with following information: <ul style="list-style-type: none"> Trường: dropdown menu Câu lạc bộ: dropdown menu 	2	Club Manager input information and clicks “Thêm mới”	System responses “Thêm mới câu lạc bộ thành công” [Exception 1, 2]
Step	Actor actions	System responses										
1	Club Manager clicks “Quản lý câu lạc bộ”	System show dialog that include all field of information of club collaborate with following information: <ul style="list-style-type: none"> Trường: dropdown menu Câu lạc bộ: dropdown menu 										
2	Club Manager input information and clicks “Thêm mới”	System responses “Thêm mới câu lạc bộ thành công” [Exception 1, 2]										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>No</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actor click “Thêm câu lạc bộ” button but nothing responses</td><td>System show “Đã có lỗi trong quá trình xảy ra”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			No	Causes	System Responses	1	Actor click “Thêm câu lạc bộ” button but nothing responses	System show “Đã có lỗi trong quá trình xảy ra”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
No	Causes	System Responses										
1	Actor click “Thêm câu lạc bộ” button but nothing responses	System show “Đã có lỗi trong quá trình xảy ra”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											

Business Rules:	<ul style="list-style-type: none"> Only Competition Manager can delete an influencer in competition and event in status draft
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 57. <Club Manager> Add a co-operator

2.2.46. <Club Manager> Delete a co-operator

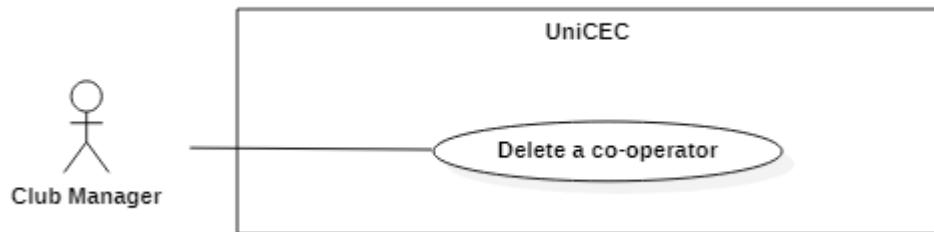


Figure 49. <Club Manager> Delete a co-operator

ID and Name:	UC-46 Delete a co-operator		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Manager	Secondary Actors:	N/A
Description:	Club Manager can delete a co-operator in competition		
Trigger:	A club manager click icon of co-operator on sidebar		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager 		
Post-conditions:	<ul style="list-style-type: none"> Success: System remove small icon of “Câu lạc bộ” on sidebar Fail: System show error message 		

Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager clicks “Xóa nhà Câu lạc bộ” button.</td><td>System show dialog “Bạn có muốn xóa nhà câu lạc bộ?” with 2 options: “Có” button “Không” button [Exception 1, 2]</td></tr> <tr> <td>2</td><td>Club Manager clicks “Có” button.</td><td>System shows “Xóa Câu lạc bộ thành công.” [Exception 1, 2] [Alternative 1]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Club Manager clicks “Xóa nhà Câu lạc bộ” button.	System show dialog “Bạn có muốn xóa nhà câu lạc bộ?” with 2 options: “Có” button “Không” button [Exception 1, 2]	2	Club Manager clicks “Có” button.	System shows “Xóa Câu lạc bộ thành công.” [Exception 1, 2] [Alternative 1]		
Step	Actor actions	System responses												
1	Club Manager clicks “Xóa nhà Câu lạc bộ” button.	System show dialog “Bạn có muốn xóa nhà câu lạc bộ?” with 2 options: “Có” button “Không” button [Exception 1, 2]												
2	Club Manager clicks “Có” button.	System shows “Xóa Câu lạc bộ thành công.” [Exception 1, 2] [Alternative 1]												
<table border="1"> <thead> <tr> <th>No</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager clicks “Không” button</td><td>System responses “Bạn đã hủy xóa câu lạc bộ”</td></tr> </tbody> </table>			No	Actor actions	System responses	1	Club Manager clicks “Không” button	System responses “Bạn đã hủy xóa câu lạc bộ”						
No	Actor actions	System responses												
1	Club Manager clicks “Không” button	System responses “Bạn đã hủy xóa câu lạc bộ”												
<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager clicks “Có” button but system doesn't response anything</td><td>System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”</td></tr> <tr> <td>2</td><td>Participant clicks “Không” button but system doesn't response anything</td><td>System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”</td></tr> <tr> <td>3</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	Club Manager clicks “Có” button but system doesn't response anything	System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”	2	Participant clicks “Không” button but system doesn't response anything	System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”	3	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
No.	Causes	System Responses												
1	Club Manager clicks “Có” button but system doesn't response anything	System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”												
2	Participant clicks “Không” button but system doesn't response anything	System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”												
3	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”												
Priority:	Medium													
Frequency of Use:	Regularly													
Business Rules:	<ul style="list-style-type: none"> Only Competition Manager can delete co-operator Co-operator can only add, edit and delete in draft status of competition 													
Other Information:	N/A													
Assumptions:	Internet is available. System is working													

Table 58. <Club Manager> Delete a co-operator

2.2.47. <Club Manager> Add an influencer

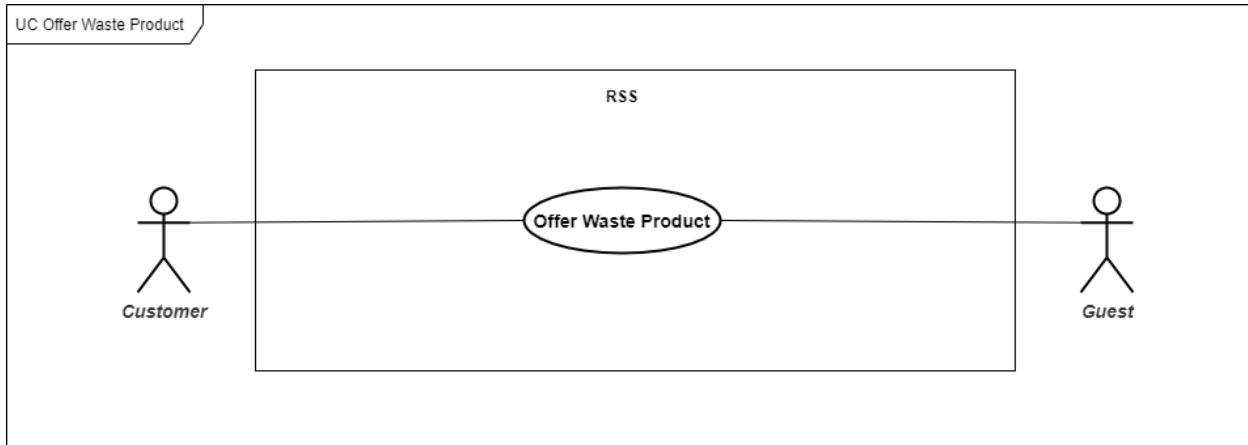


Figure 50. <Club Manager> Add an influencer

ID and Name:	UC-47 Add an influencer											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Competition Manager	Secondary Actors:	N/A									
Description:	Competition Manager can add influencer in competition											
Trigger:	A club manager click “Thêm giám khảo hoặc khách mời” button											
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager 											
Post-conditions:	<ul style="list-style-type: none"> Success: Small icon will show in “Giám khảo hoặc khách mời” on sidebar Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Club Manager click “Thêm giám khảo hoặc khách mời” button.</td> <td> System show dialog that include all field of information of sponsor with following information: <ul style="list-style-type: none"> Họ và tên: text Ảnh: file image [Exception 1, 2] </td> </tr> <tr> <td>2</td> <td>Club Manager input information and clicks “Thêm mới”</td> <td> System responses “Thêm mới giám khảo hoặc khách mời thành công” [Exception 1, 2] </td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Club Manager click “Thêm giám khảo hoặc khách mời” button.	System show dialog that include all field of information of sponsor with following information: <ul style="list-style-type: none"> Họ và tên: text Ảnh: file image [Exception 1, 2]	2	Club Manager input information and clicks “Thêm mới”	System responses “Thêm mới giám khảo hoặc khách mời thành công” [Exception 1, 2]
Step	Actor actions	System responses										
1	Club Manager click “Thêm giám khảo hoặc khách mời” button.	System show dialog that include all field of information of sponsor with following information: <ul style="list-style-type: none"> Họ và tên: text Ảnh: file image [Exception 1, 2]										
2	Club Manager input information and clicks “Thêm mới”	System responses “Thêm mới giám khảo hoặc khách mời thành công” [Exception 1, 2]										

Alternative Flows:	N/A										
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actor click “Thêm mới +” button but no data in fields : Họ và tên, Email</td> <td>System show “Vui lòng điền đầy đủ thông tin”</td> </tr> <tr> <td>2</td> <td>Lost of internet connection</td> <td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td> </tr> </tbody> </table>		o.	Causes	System Responses	1	Actor click “Thêm mới +” button but no data in fields : Họ và tên, Email	System show “Vui lòng điền đầy đủ thông tin”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses									
1	Actor click “Thêm mới +” button but no data in fields : Họ và tên, Email	System show “Vui lòng điền đầy đủ thông tin”									
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”									
Priority:	Medium										
Frequency of Use:	Regularly										
Business Rules:	<ul style="list-style-type: none"> Only Club Manager can add influencer Influencer can only add, edit and delete in draft status of competition 										
Other Information:	N/A										
Assumptions:	Internet is available. System is working										

Table 59. <Club Manager> Add an influencer

2.2.48. <Club Manager> Delete an influencer

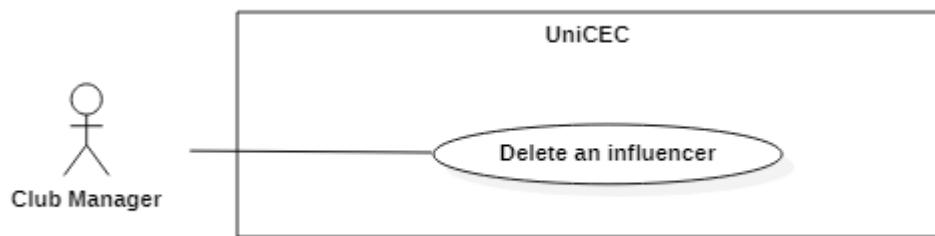


Figure 51. <Club Manager> Delete an influencer

ID and Name:	UC-48 Delete an influencer		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Manager	Secondary Actors:	N/A

Description:	Club Manager can delete a sponsor in competition														
Trigger:	A club manager clicks “Xóa giám khảo hoặc khách mời” button on sidebar														
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager 														
Post-conditions:	<ul style="list-style-type: none"> Success: System remove small icon of “Nhà giám khảo hoặc khách mời” on sidebar Fail: System show error message 														
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Club Manager clicks “Xóa giám khảo hoặc khách mời” button.</td> <td> <p>System show dialog “Bạn có muốn xóa giám khảo hoặc khách mời?” with 2 options:</p> <ul style="list-style-type: none"> “Có” button “Không” button [Exception 1, 2] </td> </tr> <tr> <td>2</td> <td>Club Manager clicks “Có” button.</td> <td> <p>System shows “Xóa giám khảo hoặc khách mời thành công.”</p> [Exception 1, 2] [Alternative 1] </td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Club Manager clicks “Xóa giám khảo hoặc khách mời” button.	<p>System show dialog “Bạn có muốn xóa giám khảo hoặc khách mời?” with 2 options:</p> <ul style="list-style-type: none"> “Có” button “Không” button [Exception 1, 2]	2	Club Manager clicks “Có” button.	<p>System shows “Xóa giám khảo hoặc khách mời thành công.”</p> [Exception 1, 2] [Alternative 1]			
Step	Actor actions	System responses													
1	Club Manager clicks “Xóa giám khảo hoặc khách mời” button.	<p>System show dialog “Bạn có muốn xóa giám khảo hoặc khách mời?” with 2 options:</p> <ul style="list-style-type: none"> “Có” button “Không” button [Exception 1, 2]													
2	Club Manager clicks “Có” button.	<p>System shows “Xóa giám khảo hoặc khách mời thành công.”</p> [Exception 1, 2] [Alternative 1]													
Alternative Flows:	No	Actor actions	System responses												
	1	Club Manager clicks “Không” button	System responses “Bạn đã hủy xóa giám khảo hoặc khách mời”												
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Club Manager clicks “Có” button but system doesn't response anything</td> <td>System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”</td> </tr> <tr> <td>2</td> <td>Participant clicks “Không” button but system doesn't response anything</td> <td>System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”</td> </tr> <tr> <td>3</td> <td>Lost of internet connection</td> <td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td> </tr> </tbody> </table>			No.	Causes	System Responses	1	Club Manager clicks “Có” button but system doesn't response anything	System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”	2	Participant clicks “Không” button but system doesn't response anything	System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”	3	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
No.	Causes	System Responses													
1	Club Manager clicks “Có” button but system doesn't response anything	System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”													
2	Participant clicks “Không” button but system doesn't response anything	System shows “Đã có lỗi trong quá trình xóa. Vui lòng thử lại”													
3	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”													
Priority:	Medium														
Frequency of Use:	Regularly														

Business Rules:	<ul style="list-style-type: none"> Only Competition Manager can delete sponsor Sponsor can only add, edit and delete in draft status of competition
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 60. <Club Manager> Delete an influencer

2.2.49. <Club Manager> View a competition

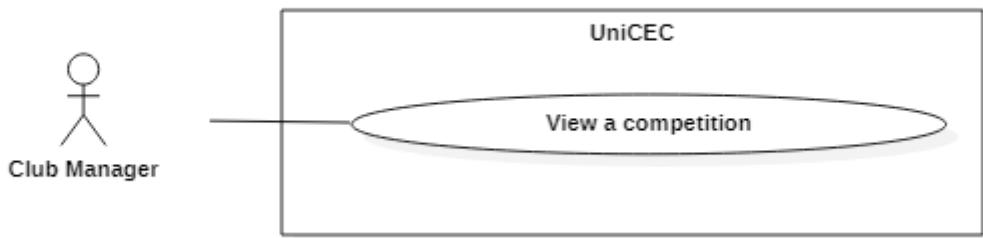


Figure 52. <Club Manager> View a competition

ID and Name:	UC-49 View a competition		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Manager	Secondary Actors:	N/A
Description:	Club Manager want view a competition		
Trigger:	A Club Manager click “Xem chi tiết” button		
Preconditions :	<ul style="list-style-type: none"> The account has active status The account has role is Club Manager 		
Post-conditions:	<ul style="list-style-type: none"> Success: System show a detail a competition Fail: System show error message 		

Normal Flow:	Step	Actor actions	System responses									
	1	Club Manager click “Xem chi tiết” button.	<p>System show table that include competition v following information:</p> <ul style="list-style-type: none"> • Name: text • Image: file image, • Description: text, • StartTimeRegister: datetime • EndTimeRegister: datetime, • CeremonyTime: datetime • StartTime: datetime, • EndTime: datetime, • Content: text • Fee: double • Scope: text • Address: text • AddressName: text • SeedsPoint: double • MajorInCompetition: List<Major> • CompetitionEntities:List<Competition • isSponsor: bool • isEvent: bool • Status: Enum • CompetitionRound:List<Round> • Team: List<Team> • CompetitionInClub: List<CompetitionI <p>[Exception 1, 2]</p>									
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager click “Xem chi tiết” button but system response error message</td><td>System shows “response error message”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			o.	Causes	System Responses	1	Club Manager click “Xem chi tiết” button but system response error message	System shows “response error message”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses										
1	Club Manager click “Xem chi tiết” button but system response error message	System shows “response error message”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> • Only Club Manager can view all status of competition 											
Other Information:	N/A											

Assumptions:	Internet is available. System is working
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Table 61. <Club Manager> View a competition

2.2.50. <Club Manager> Edit a club

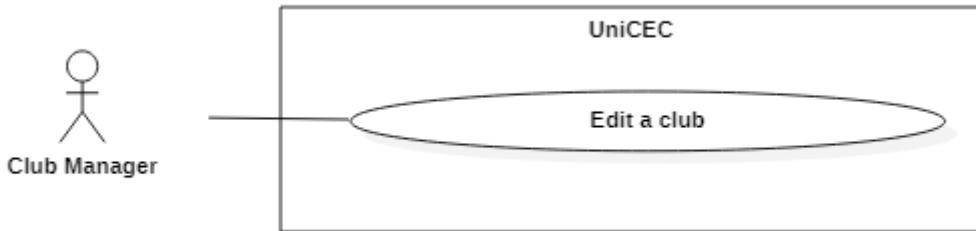


Figure 53. <Club Manager> Edit a club

ID and Name:	UC-50 Edit a club		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Manager	Secondary Actors:	N/A
Description:	A Club Manager want to edit own club		
Trigger:	A Club Manager clicks to button “Chỉnh sửa”		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager in system 		
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that edit club successfully Fail: System show error message 		
Normal Flow:	Step	Actor actions	System responses
	1	Club Manager clicks “Chỉnh sửa” button.	System show form edit club
	2	Club Manager input information	<p>System allow System Club Manager to input with the following rules:</p> <ul style="list-style-type: none"> Name: text, required, 1-500 Description:text, required, 1-Max Image: string Founding: datetime ClubFanpage: text ClubContact: text

	3	Club Manager click “Hoàn Tất” button	System responses notification “Cập nhật câu lạc bộ thành công” [Exception 1, 2]									
Alternative Flows:	N/A											
Exception:	<table border="1"> <thead> <tr> <th>o.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Club Manager click “Hoàn Tất”button but system response error message</td> <td>System show “response error message”</td> </tr> <tr> <td>2</td> <td>Lost of internet connection</td> <td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td> </tr> </tbody> </table>			o.	Causes	System Responses	1	Club Manager click “Hoàn Tất”button but system response error message	System show “response error message”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses										
1	Club Manager click “Hoàn Tất”button but system response error message	System show “response error message”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> Only Club Manager can update own club 											
Other Information:	N/A											
Assumptions:	Internet is available. System is working											

Table 62. <Club Manager> Edit a club

2.2.51. <Club Manager> View teams

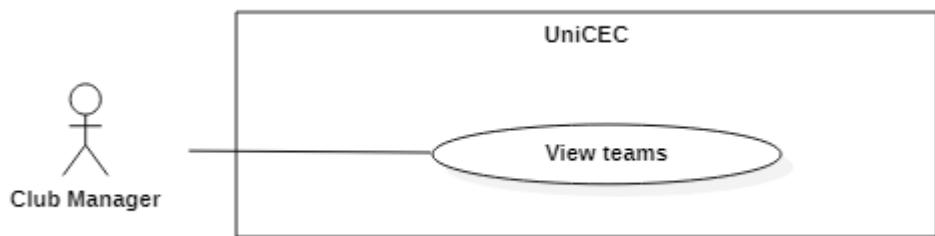


Figure 54. <Club Manager> View teams

ID and Name:	UC-51 View teams								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	Club Manager	Secondary Actors:	Competition Manager, Guest, University Admin, Student, Member						
Description:	Club Manager can view list of teams in a competition								
Trigger:	Actor click “Quản lý nhóm” button								
Preconditions:	The account has active status and have a role in system								
Post-conditions:	<ul style="list-style-type: none"> ● Success: System show list of teams in a competition for actor ● Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actor click “Quản lý nhóm” button.</td> <td> <p>System show list of teams with the information:</p> <ul style="list-style-type: none"> ● Name: text ● NumberOfMember: number ● Status: text ● Participants: avatar ● Create Date: datetime ● Action ● View Detail: icon ● Delete team: icon <p>[Exception 1]</p> </td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Actor click “Quản lý nhóm” button.	<p>System show list of teams with the information:</p> <ul style="list-style-type: none"> ● Name: text ● NumberOfMember: number ● Status: text ● Participants: avatar ● Create Date: datetime ● Action ● View Detail: icon ● Delete team: icon <p>[Exception 1]</p>
Step	Actor actions	System responses							
1	Actor click “Quản lý nhóm” button.	<p>System show list of teams with the information:</p> <ul style="list-style-type: none"> ● Name: text ● NumberOfMember: number ● Status: text ● Participants: avatar ● Create Date: datetime ● Action ● View Detail: icon ● Delete team: icon <p>[Exception 1]</p>							
Alternative Flows:	N/A								
Exceptions:	<table border="1"> <thead> <tr> <th></th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actor click “Quản lý nhóm” button but no available competition on each status</td> <td>System show “Danh sách trống”</td> </tr> </tbody> </table>				Causes	System Responses	1	Actor click “Quản lý nhóm” button but no available competition on each status	System show “Danh sách trống”
	Causes	System Responses							
1	Actor click “Quản lý nhóm” button but no available competition on each status	System show “Danh sách trống”							

	2	NumberOfMember is over range of competition	System shows “1 đội chỉ có từ ... đến ... thành viên”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Everyone can view a list of teams through competition's post Team in status “Đóng” means that team is enough participants and doesn't want to take another participant Team in status “Mở” means that team is still open and they still take another participant into team 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 63. <Club Manager> View teams

2.2.52. <Club Manager> View a team

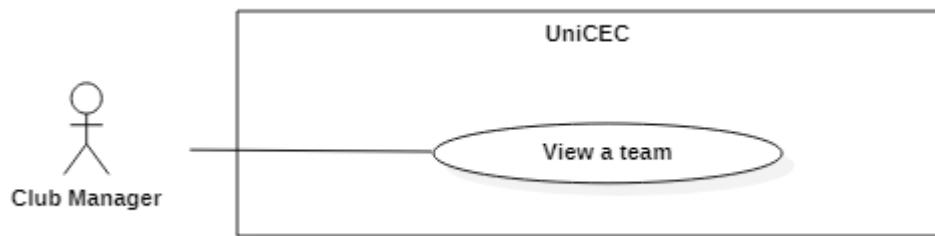


Figure 55. <Club Manager> View a team

ID and Name:	UC-52 View a team		
Created By:	HuyVL	Date Created:	29/06/2022

Primary Actor:	Club Manager	Secondary Actors:	Competition Manager, University Admin, Student, Member									
Description:	Members can view detail of a team in a competition											
Trigger:	Actor clicks “View Detail” button											
Preconditions:	The account has active status and is in a team											
Post-conditions:	<ul style="list-style-type: none"> ● Success: System shows detail of a team in a competition for actor ● Fail: System shows error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actor click “Quản lý nhóm” button.</td><td> <p>System show list of team with the information:</p> <ul style="list-style-type: none"> • Avatar: text • Name: text • StudentID: text • JoinDate: datetime, dd-mm-yyyy • Action: Delete [Exception 1] </td></tr> <tr> <td>2</td><td>Actor clicks “Khóa nhóm” switch button</td><td> <p>System lock the team and send message to Club Manager, and confirm that this team is enough participants and can participate in competition [Exception 2]</p> </td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Actor click “Quản lý nhóm” button.	<p>System show list of team with the information:</p> <ul style="list-style-type: none"> • Avatar: text • Name: text • StudentID: text • JoinDate: datetime, dd-mm-yyyy • Action: Delete [Exception 1] 	2	Actor clicks “Khóa nhóm” switch button	<p>System lock the team and send message to Club Manager, and confirm that this team is enough participants and can participate in competition [Exception 2]</p>
Step	Actor actions	System responses										
1	Actor click “Quản lý nhóm” button.	<p>System show list of team with the information:</p> <ul style="list-style-type: none"> • Avatar: text • Name: text • StudentID: text • JoinDate: datetime, dd-mm-yyyy • Action: Delete [Exception 1] 										
2	Actor clicks “Khóa nhóm” switch button	<p>System lock the team and send message to Club Manager, and confirm that this team is enough participants and can participate in competition [Exception 2]</p>										
Alternative Flows:	N/A											
Exceptions:	<p>Exception 1:</p> <table border="1"> <thead> <tr> <th></th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actor click “Quản lý nhóm” button but no available competition on each status</td><td>System show “Danh sách trống”</td></tr> </tbody> </table>				Causes	System Responses	1	Actor click “Quản lý nhóm” button but no available competition on each status	System show “Danh sách trống”			
	Causes	System Responses										
1	Actor click “Quản lý nhóm” button but no available competition on each status	System show “Danh sách trống”										

	2	Actor clicks “Khóa nhóm” switch button	System show error message “Chưa đủ thành viên nhóm. Không thể khóa nhóm.”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only Student, Member as a participant can lock a team, delete member, set as leader Club Manager, Guest only view detail of team, cannot do action 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 64. <Club Manager> View a team

2.2.53. <Competition Manager> Create a competition round

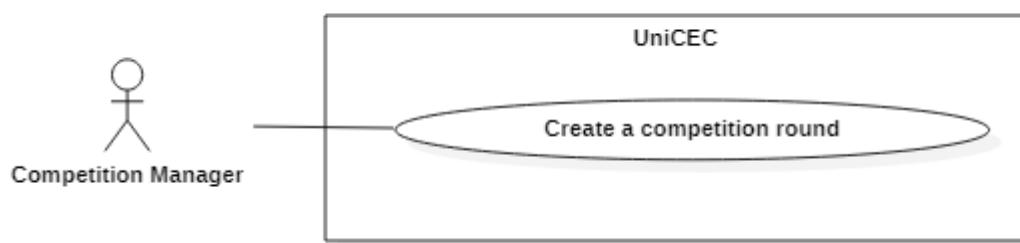


Figure 56. <Competition Manager> Create a competition round

ID and Name:	UC-53 Create a competition round		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Competition Manager	Secondary Actors:	N/A

Description:	Competition Manager want to add round in competition		
Trigger:	A Competition Manager clicks “+” button		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Competition Manager in system Competition must be existed 		
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that create new round successfully Fail: System show error message 		
Normal Flow:	Step	Actor actions	System responses
	1	Competition Manager clicks “+” button	System show form create competition round
	2	Competition Manager input information	<p>System allow Competition Manager to input with the following rules:</p> <ul style="list-style-type: none"> Name: text, required, 1- 500 characters RoundType: selected box, required Description: text, required, 1- Max StartTime: datetime EndTime: datetime
Alternative Flows:	3	Competition Manager click “Tạo” button	<p>System responses notification “Tạo mới vòng thi thành công”</p> <p>[Exception 1, 2]</p>
	N/A		
	Exceptions:	0.	Causes
		1	Competition Manager click “Tạo” button but nothing response
		2	Lost of internet connection
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only Competition Manager can create round in competition Starttime and Endtime of round must be in Starttime and Endtime of competition (from status Start to End) 		

	<ul style="list-style-type: none"> • A team has been eliminated will not appear in next round • The system only support round-robin type, elimination type, combination type
Other Information:	N/A
Assumptions:	Internet is available. System is working

Table 65. <Competition Manager> Create a competition round

2.2.54. <Competition Manager> Edit a competition round

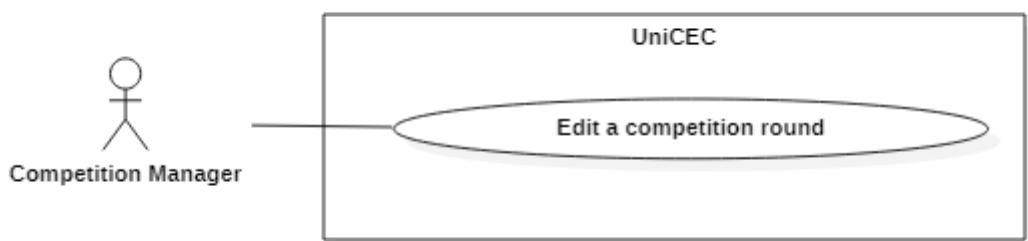


Figure 57. <Competition Manager> Edit a competition round

ID and Name:	UC-54 Edit a competition round											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Competition Manager	Secondary Actors:	N/A									
Description:	Competition Manager want to edit round in competition											
Trigger:	A Competition Manager select a competition round											
Preconditions:	<ul style="list-style-type: none"> • The account has active status • The account has role is Competition Manager in system 											
Post-conditions:	<ul style="list-style-type: none"> • Success: System show notification that update round successfully • Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Competition Manager select a competition round</td> <td>System shows form update competition round</td> </tr> <tr> <td>2</td> <td>Competition Manager inputs information</td> <td> System allow Competition Manager to input with the following rules: <ul style="list-style-type: none"> • Name: text, required, 1-500 • RoundType: selected box, required </td> </tr> </tbody> </table>	Step	Actor actions	System responses	1	Competition Manager select a competition round	System shows form update competition round	2	Competition Manager inputs information	System allow Competition Manager to input with the following rules: <ul style="list-style-type: none"> • Name: text, required, 1-500 • RoundType: selected box, required 		
Step	Actor actions	System responses										
1	Competition Manager select a competition round	System shows form update competition round										
2	Competition Manager inputs information	System allow Competition Manager to input with the following rules: <ul style="list-style-type: none"> • Name: text, required, 1-500 • RoundType: selected box, required 										

			<ul style="list-style-type: none"> • Description:text, required, 1- Max • StartTime: datetime • EndTime: datetime
	3	Competition Manager click “Cập nhật” button	System responses notification “Cập nhật vòng thi thành công” [Exception 1, 2]
Alternative Flows:	N/A		
Exceptions:	0.	Causes	System Responses
	1	University Admin clicks “Cập nhật” button but nothing response	System shows “Cập nhật thất bại. Vui lòng thử lại sau.”
	2	Lost of internet connection	System show “Tạo mới thất bại. Mất kết nối internet.”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> • Only Competition Manager can update round in competition • Starttime and Endtime of round must be in Starttime and Endtime of competition (from status Start to End) • A team has been eliminated will not appear in next round • The system only support round-robin type, elimination type, combination type 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 66. *<Competition Manager> Edit a competition round*

2.2.55. <Competition Manager> Delete a competition round

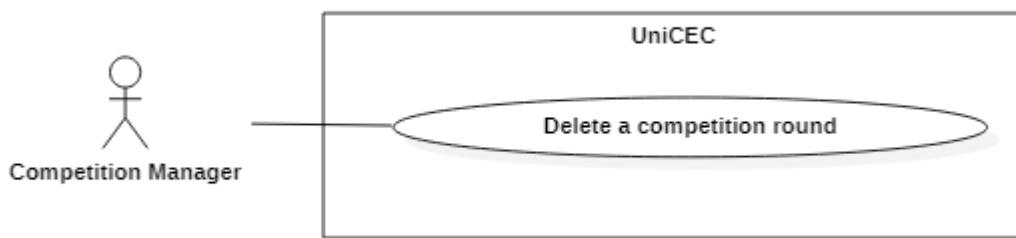


Figure 58. <Competition Manager> Delete a competition round

ID and Name:	UC-55 Delete a competition round														
Created By:	HuyVL	Date Created:	29/06/2022												
Primary Actor:	Competition Manager	Secondary Actors:	N/A												
Description:	Competition Manager want to delete round in competition														
Trigger:	A Competition Manager clicks "Xóa" button														
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has role is Competition Manager in system 														
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that delete round successfully Fail: System show error message 														
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager select a competition round</td><td>System shows form competition round</td></tr> <tr> <td>2</td><td>Competition Manager clicks "Xóa" button</td><td>System shows a confirm dialog:</td></tr> <tr> <td>3</td><td>Competition Manager click "Đồng Ý" button on confirm dialog</td><td>System responses notification "Xóa vòng thi thành công" [Exception 1, 2]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Competition Manager select a competition round	System shows form competition round	2	Competition Manager clicks "Xóa" button	System shows a confirm dialog:	3	Competition Manager click "Đồng Ý" button on confirm dialog	System responses notification "Xóa vòng thi thành công" [Exception 1, 2]
Step	Actor actions	System responses													
1	Competition Manager select a competition round	System shows form competition round													
2	Competition Manager clicks "Xóa" button	System shows a confirm dialog:													
3	Competition Manager click "Đồng Ý" button on confirm dialog	System responses notification "Xóa vòng thi thành công" [Exception 1, 2]													
Alternative Flows:	N/A														
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager click "Đồng Ý" button but nothing response</td><td>System shows "Xóa thất bại. Vui lòng thử lại sau."</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows "Tạo mới thất bại. Mất kết nối internet."</td></tr> </tbody> </table>			o.	Causes	System Responses	1	Competition Manager click "Đồng Ý" button but nothing response	System shows "Xóa thất bại. Vui lòng thử lại sau."	2	Lost of internet connection	System shows "Tạo mới thất bại. Mất kết nối internet."			
o.	Causes	System Responses													
1	Competition Manager click "Đồng Ý" button but nothing response	System shows "Xóa thất bại. Vui lòng thử lại sau."													
2	Lost of internet connection	System shows "Tạo mới thất bại. Mất kết nối internet."													
Priority:	Medium														
Frequency of Use:	Regularly														
Business Rules:	<ul style="list-style-type: none"> Only Competition Manager can delete round in competition Competition Manager who is member of club owner or collaborate with another clubs in competition 														
Other Information:	N/A														
Assumptions:	Internet is available. System is working														

Table 67. <Competition Manager> Delete a competition round

2.2.56. <Competition Manager> View a competition round

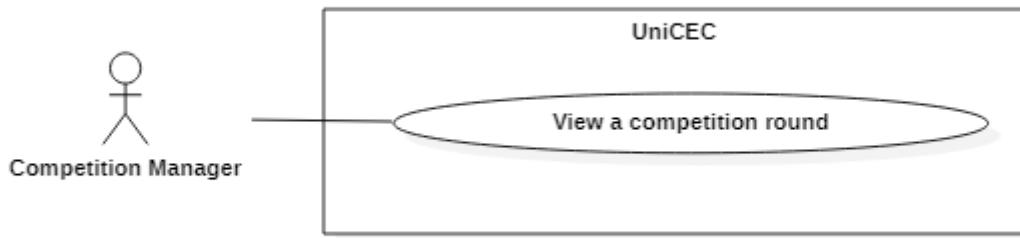


Figure 59. <Competition Manager> View a competition round

ID and Name:	UC-56 View a competition round								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	Competition Manager	Secondary Actors:	N/A						
Description:	Competition Manager want to view rounds in competition								
Trigger:	A Competition Manager clicks “Quản Lý Các Vòng Thi” button on detail competition page								
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Competition Manager in system 								
Post-conditions:	<ul style="list-style-type: none"> Success: System show list of competition rounds Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Competition Manager clicks “Quản Lý Các Vòng Thi” button on detail competition page</td> <td> System shows Competition Round with information following: <ul style="list-style-type: none"> Name: text, Description:text, required, 1- Max SeedsPoint: int StartTime: datetime EndTime: datetime </td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Competition Manager clicks “Quản Lý Các Vòng Thi” button on detail competition page	System shows Competition Round with information following: <ul style="list-style-type: none"> Name: text, Description:text, required, 1- Max SeedsPoint: int StartTime: datetime EndTime: datetime
Step	Actor actions	System responses							
1	Competition Manager clicks “Quản Lý Các Vòng Thi” button on detail competition page	System shows Competition Round with information following: <ul style="list-style-type: none"> Name: text, Description:text, required, 1- Max SeedsPoint: int StartTime: datetime EndTime: datetime 							
Alternative Flows:	N/A								

Exceptions:	0.	Causes	System Responses
	1	Competition Manager clicks “Quản Lý Các Vòng Thi” button on detail competition page but nothing response	System shows “Danh sách trống”
	2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only Competition Manager can view rounds in competition Competition Manager who is member of club owner or collaborate with another clubs in competition 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 68. <Competition Manager> View a competition round

2.2.57. <Competition Manager> Create an activity

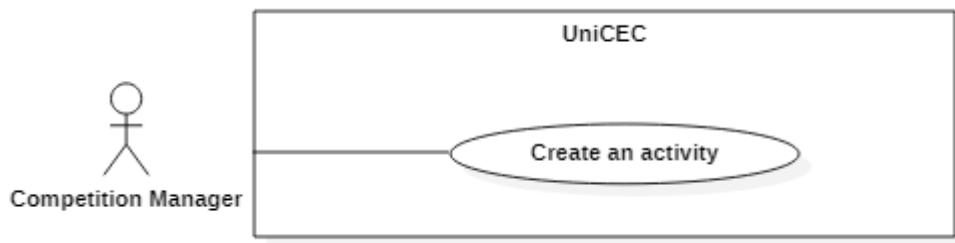


Figure 60. <Competition Manager> Create an activity

ID and Name:	UC-57 Create an activity		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Competition Manager	Secondary Actors:	Club Manager
Description:	Competition Manager or Club Manager want to create new activity for member to do in competition or event.		

Trigger:	A club manager clicks “Tạo hoạt động” button on sidebar													
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Competition Manager or Club Manager in system 													
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification create new activity successfully Fail: System show error message 													
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager clicks “Tạo hoạt động” button on sidebar.</td><td>System show form create activity</td></tr> <tr> <td>2</td><td>Competition Manager or Club Manager inputs information</td><td> <p>System allow Competition Manager or Club Manager to input with the following rules:</p> <ul style="list-style-type: none"> Choose Competition or Event: drop down list, select 1 option Name: text, 1-50 characters Description: text, max length Image: text, base x64 EndTime: datetime Priority: Dropdown list, select 1 option Seeds Point: number, int </td></tr> <tr> <td>3</td><td>Competition Manager or Club Manager clicks “Tạo hoạt động” button</td><td> <p>System responses notification “Tạo hoạt động thành công”</p> <p>[Exception 1, 2, 3, 4]</p> </td></tr> </tbody> </table>		Step	Actor actions	System responses	1	Club Manager clicks “Tạo hoạt động” button on sidebar.	System show form create activity	2	Competition Manager or Club Manager inputs information	<p>System allow Competition Manager or Club Manager to input with the following rules:</p> <ul style="list-style-type: none"> Choose Competition or Event: drop down list, select 1 option Name: text, 1-50 characters Description: text, max length Image: text, base x64 EndTime: datetime Priority: Dropdown list, select 1 option Seeds Point: number, int 	3	Competition Manager or Club Manager clicks “Tạo hoạt động” button	<p>System responses notification “Tạo hoạt động thành công”</p> <p>[Exception 1, 2, 3, 4]</p>
Step	Actor actions	System responses												
1	Club Manager clicks “Tạo hoạt động” button on sidebar.	System show form create activity												
2	Competition Manager or Club Manager inputs information	<p>System allow Competition Manager or Club Manager to input with the following rules:</p> <ul style="list-style-type: none"> Choose Competition or Event: drop down list, select 1 option Name: text, 1-50 characters Description: text, max length Image: text, base x64 EndTime: datetime Priority: Dropdown list, select 1 option Seeds Point: number, int 												
3	Competition Manager or Club Manager clicks “Tạo hoạt động” button	<p>System responses notification “Tạo hoạt động thành công”</p> <p>[Exception 1, 2, 3, 4]</p>												
Alternative Flows:	N/A													
Exceptions:														
	No.	Causes	System Responses											

	1	Club Manager clicks “Tạo hoạt động” button but nothing response	System shows “Tạo mới thất bại. Vui lòng thử lại sau.”
	2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet”
	3	Name is out of range 1-50 characters	System shows “Tên nằm trong khoảng 1-50 kí tự”
	4	Description is empty	System shows “Vui lòng điền miêu tả công việc”
Priority:	High		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> ● Only Competition Manager or Club Manager can create an activity ● An activity after create will be in open status ● All field is required ● Start time of activity will be a create time ● Activity has following status: <ul style="list-style-type: none"> ○ Open ○ On-going ○ Pending ○ Finished ○ Complete ○ Cancel 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 69. <Competition Manager> Create an activity

2.2.58. <Competition Manager> Edit an activity

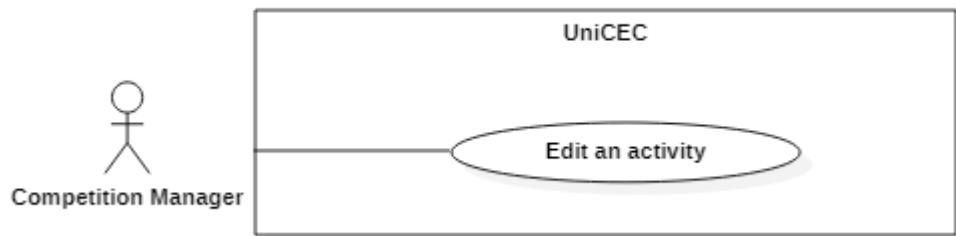


Figure 61. <Competition Manager> Edit an activity

ID and Name:	UC-58 Edit an activity		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Competition Manager	Secondary Actors:	Club Manager
Description:	Competition Manager or Club Manager want to edit an activity of member in competition or event.		
Trigger:	A competition manager clicks on activity		
Preconditions:	<ul style="list-style-type: none"> ● The account has active status ● The account has a role is Competition Manager in system 		
Post-conditions:	<ul style="list-style-type: none"> ● Success: System show notification edit activity successfully ● Fail: System show error message 		

Normal Flow:	Step	Actor actions	System responses															
	1	Competition Manager clicks on activity	System shows detail of activity															
	2	Competition Manager input information	<p>System allow Competition Manager or Club Manager to edit with the following rules:</p> <ul style="list-style-type: none"> ● Choose Competition or Event: drop down list, select 1 option ● Name: text, 1-50 characters ● Description: text, max length ● Image: text, base x64 ● EndTime: datetime ● Priority: Dropdown list, select 1 option ● Status <p>Seeds Point: number, int</p>															
	3	Competition Manager clicks “Hoàn tất” button	<p>System responses notification “Cập nhật hoạt động thành công”</p> <p>[Exception 1, 2, 3, 4]</p>															
Alternative Flows:	N/A																	
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Manager clicks “Tạo hoạt động” button but nothing response</td><td>System shows “Tạo mới thất bại. Vui lòng thử lại sau.”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Tạo mới thất bại. Mất kết nối internet.”</td></tr> <tr> <td>3</td><td>Name is out of range 1-50 characters</td><td>System shows “Tên nằm trong khoảng 1-50 kí tự”</td></tr> <tr> <td>4</td><td>Description is empty</td><td>System shows “Vui lòng điền miêu tả công việc”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	Club Manager clicks “Tạo hoạt động” button but nothing response	System shows “Tạo mới thất bại. Vui lòng thử lại sau.”	2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”	3	Name is out of range 1-50 characters	System shows “Tên nằm trong khoảng 1-50 kí tự”	4	Description is empty	System shows “Vui lòng điền miêu tả công việc”
No.	Causes	System Responses																
1	Club Manager clicks “Tạo hoạt động” button but nothing response	System shows “Tạo mới thất bại. Vui lòng thử lại sau.”																
2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”																
3	Name is out of range 1-50 characters	System shows “Tên nằm trong khoảng 1-50 kí tự”																
4	Description is empty	System shows “Vui lòng điền miêu tả công việc”																
Priority:	medium																	

Frequency of Use:	Regularly
Business Rules:	<ul style="list-style-type: none"> Only Club Manager, Competition Manager can edit an activity on website All field is required
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 70. <Competition Manager> Edit an activity

2.2.59. <Competition Manager> Delete an activity

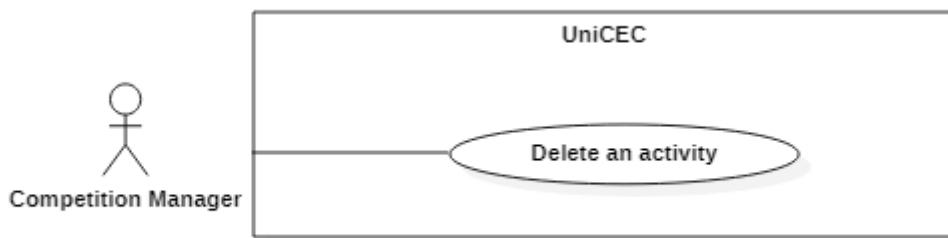


Figure 62. <Club Manager> Delete an activity

ID and Name:	UC-59 Delete an activity		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Competition Manager	Secondary Actors:	N/A
Description:	Competition Manager wants to delete an activity		
Trigger:	A Competition manager clicks “Hủy bỏ” button		

Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Competition Manager in system 		
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification edit activity successfully Fail: System show error message 		
Normal Flow:	Step	Actor actions	System responses
	1	Competition Manager clicks on activity	System show detail of activity
	2	Competition Manager clicks “Hủy bỏ” button	System shows confirm popup “Bạn có chắc muốn hủy bỏ hoạt động này không?” with 2 options: <ul style="list-style-type: none"> “Có” button “Không” button
Alternative Flows:	No.	Causes	System Responses
	1	Competition Manager clicks “Không” button	System shows “Hủy thành công.”
	No.	Causes	System Responses
Exceptions:	1	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”
	2	Competition Manager clicks button but not thing responses	System shows “Có lỗi xảy ra trong quá trình hoạt động. Vui lòng thử lại”
	Priority: Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only Competition Manager can delete activity Activity after delete is in status Cancel 		

Other Information:	N/A
Assumptions:	Internet is available. System is working

Table 71. <Club Manager> Delete an activity

2.2.60. <Competition Manager> View an activity

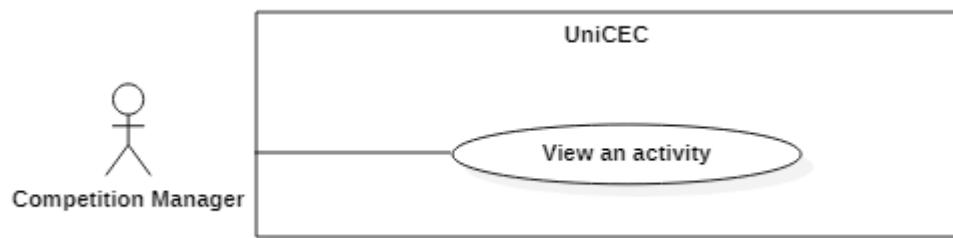


Figure 63. <Competition Manager> View an activity

ID and Name:	UC-60 View an activity		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Competition Manager	Secondary Actors:	N/A
Description:	Competition Manager can view detail of activity in a competition		
Trigger:	A Competition Manager selects an activity		
Preconditions:	<ul style="list-style-type: none"> ● The account has active status ● The account has a role is Competition Manager in system 		
Post-conditions:	<ul style="list-style-type: none"> ● Success: System shows detail of activity ● Fail: System shows error message 		

Normal Flow:	Step	Actor actions	System responses
	1	Competition Manager selects “Hoạt động” on sidebar	System responses list of activity
	1	Competition Manager selects activity	<p>System responses detail activity with following information:</p> <ul style="list-style-type: none"> • ID • Point • Title • Creator • Status • Content • Assigner • Start time • End time • Priority <p>[Exception 1]</p>
Alternative Flows:	N/A		
Exceptions:			
	No.	Causes	System Responses
	1	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> • Only Competition Manager can view list of activity and detail of all activity 		
Other Information:	N/A		
Assumptions:	Internet is available.		

	System is working
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Table 72. <Competition Manager> View an activity

2.2.61. <Competition Manager> Assign to member

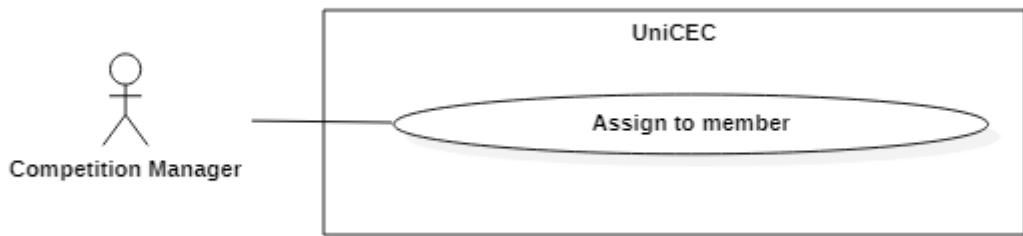


Figure 64. <Competition Manager> Assign to member

ID and Name:	UC-61 Assign to member														
Created By:	HuyVL	Date Created:	29/06/2022												
Primary Actor:	Club Manager	Secondary Actors:	N/A												
Description:	A Club Manager want to add member in own club into activity of competition or event														
Trigger:	A Club Manager clicks to button "+" on popup a detail activity														
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager in system 														
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that add member in activity successfully Fail: System show error message 														
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Club Manager clicks to button "+" on popup a detail activity</td> <td>System shows a dialog</td> </tr> <tr> <td>2</td> <td>Club Manager input data on field "tìm thành viên" on popup</td> <td>Finding data in system</td> </tr> <tr> <td>3</td> <td>Club Manager clicks icon avatar of member in club</td> <td>Small icon avatar will appear</td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Club Manager clicks to button "+" on popup a detail activity	System shows a dialog	2	Club Manager input data on field "tìm thành viên" on popup	Finding data in system	3	Club Manager clicks icon avatar of member in club	Small icon avatar will appear
Step	Actor actions	System responses													
1	Club Manager clicks to button "+" on popup a detail activity	System shows a dialog													
2	Club Manager input data on field "tìm thành viên" on popup	Finding data in system													
3	Club Manager clicks icon avatar of member in club	Small icon avatar will appear													
Alternative Flows:	N/A														

Exception:	o.	Causes	System Responses
	1	Club Manager clicks icon avatar of member in club system response error message	System shows “response error message”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only Club Manager can add member into activity of Competition or Event Only Competition or Event that Club Manager is joined or Owner it 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 73. <Competition Manager> Assign to member

2.2.62. <Competition Manager> Sign out a member



Figure 65. <Competition Manager> Sign out a member

ID and Name:	UC-62 Sign out a member		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Manager	Secondary Actors:	N/A
Description:	A Club Manager want to remove member in own club in activity of competition or event		
Trigger:	A Club Manager clicks to button “+” on popup a detail activity		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Club Manager in system 		
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that add member in activity successfully Fail: System show error message 		

	Step	Actor actions	System responses
Normal Flow:	1	Club Manager clicks to button “+” on popup a detail activity	System shows a dialog
	2	Club Manager input data on field “tìm thành viên” on popup	Finding data in system
	3	Club Manager clicks icon avatar of member in club has stick	Small icon avatar of member will disappear
Alternative Flows:	N/A		
Exception:	o.	Causes	System Responses
	1	Club Manager clicks icon avatar of member in club system response error message	System shows “response error message”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only Club Manager can remove member in activity of Competition or Event Only Competition or Event that Club Manager is joined or Owner it 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 74. <Competition Manager> Sign out a member

2.2.63. <Competition Manager> Approve an activity progress



Figure 66. <Competition Manager > Approve an activity progress

ID and Name:	UC-63 Approve an activity progress											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Competition Manager	Secondary Actors:	N/A									
Description:	Competition Manager can view and approve activity of Competition or Event in page detail Activity											
Trigger:	A Competition Manager clicks “Duyệt” button on dialog detail activity											
Preconditions:	<ul style="list-style-type: none"> The account has a role is Competition Manager, Activity must be in status “Chờ duyệt” 											
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that update activity in competition and event successfully Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Competition Manager, clicks “Duyệt”</td> <td>System show dialog message: “Duyệt thành công” and Activity has move to ‘Hoàn Thành’ state [Exception 1, 2]</td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Competition Manager, clicks “Duyệt”	System show dialog message: “Duyệt thành công” and Activity has move to ‘Hoàn Thành’ state [Exception 1, 2]			
Step	Actor actions	System responses										
1	Competition Manager, clicks “Duyệt”	System show dialog message: “Duyệt thành công” and Activity has move to ‘Hoàn Thành’ state [Exception 1, 2]										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actor click “Duyệt” button but system response error message</td> <td>System shows error message</td> </tr> <tr> <td>2</td> <td>Lost of internet connection</td> <td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td> </tr> </tbody> </table>			o.	Causes	System Responses	1	Actor click “Duyệt” button but system response error message	System shows error message	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses										
1	Actor click “Duyệt” button but system response error message	System shows error message										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											

Frequency of Use:	Regularly
Business Rules:	<ul style="list-style-type: none"> Only Competition Manager can approve activity Members are assigned in activity will receive point
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 75. <Competition Manager > Approve an activity progress

2.2.64. <Competition Manager> Create a match

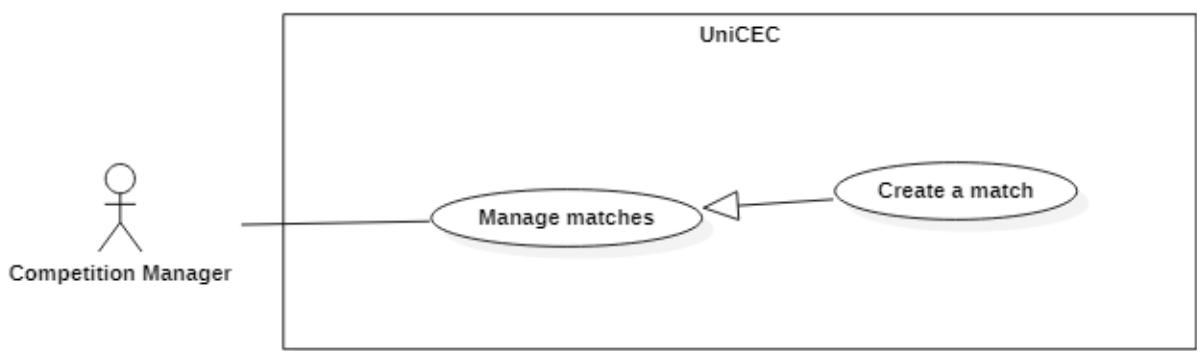


Figure 67. <Competition Manager> Create a match

ID and Name:	UC – 64. Create a match		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Competition Manager	Secondary Actors:	Club Manager
Description:	Competition Manager can create a match for each round for teams		
Trigger:	Competition Manager clicks “Tạo trận đấu” button		
Preconditions:	<ul style="list-style-type: none"> The account has a role is Competition Manager Match must be created in round Round must be existed 		
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that create a new match successfully Fail: System show error message 		

Normal Flow:	Step	Actor actions	System responses
	1	Competition Manager clicks “Danh sách trận đấu” button on popup	System shows list of match in a round of competition.
	2	Competition Manager clicks “Tạo trận đấu” button	System allow Competition Manager or Club Manager to create a new match with the following rules: <ul style="list-style-type: none">• Title: text, 1-100 characters, required• Description: text, 1-500 characters• Address: text, 1-500 characters• Start time: datetime, required• End time: datetime, required [Exception 2, 3]
	3	Competition Manager clicks “Tạo” button	System responses notification “Tạo trận đấu thành công” [Exception 1, 2]
Alternative Flows:	N/A		
Exceptions:	No.	Causes	System Responses
	1	Competition Manager clicks “Tạo” button but nothing response	System shows “Tạo mới thất bại. Vui lòng thử lại sau.”
	2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet”
	3	Title is out of range 1-100 characters	System shows “Tiêu đề nằm trong khoảng 1-100 kí tự. Vui lòng nhập lại”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> - Only Competition Manager/ Club Manager can create a new match - The time of a new match must be in range of start time and end time of round 		

	<ul style="list-style-type: none"> - Only edit information of match before start time of match 10 minutes - Competition Manager can edit status in all time - In all status, Competition Manager can change to Cancel except Delete - Competition Manager can delete match in all status except Finish and On-going - After created, the status of match is in ready - A team is in match must be overcome the previous round and has status is active
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 76.<Competition Manager> Create a match

2.2.65. <Competition Manager> Edit a match

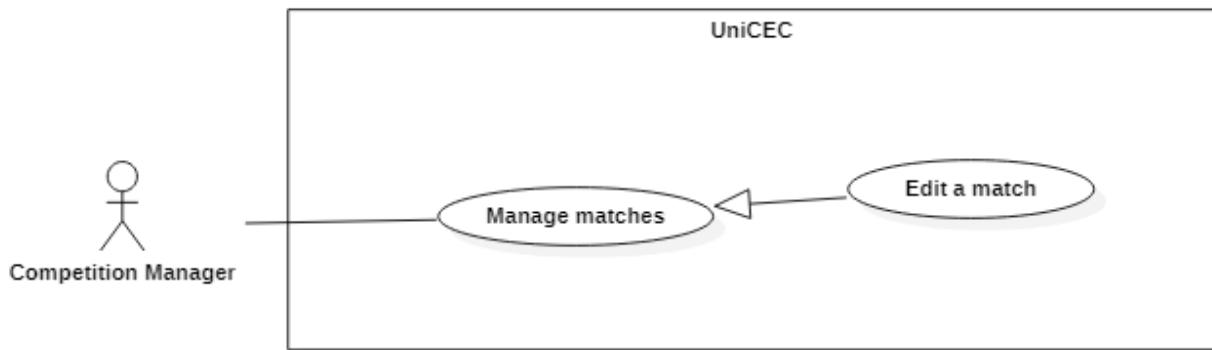


Figure 68. <Competition Manager> Edit a match

ID and Name:	UC – 65. Edit a match		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Competition Manager	Secondary Actors:	Club Manager
Description:	Competition Manager can edit a match for each round for teams		
Trigger:	Competition Manager clicks “Chỉnh sửa” button		
Preconditions:	<ul style="list-style-type: none"> • The account has a role is Competition Manager • Match must be created in round before 		

Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that edit a new match successfully Fail: System show error message 																	
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager clicks “Danh sách trận đấu” button on popup</td><td>System shows list of match in a round of competition.</td></tr> <tr> <td>2</td><td>Competition Manager clicks a match in list</td><td>System shows detail of match in a round of competition.</td></tr> <tr> <td>3</td><td>Competition Manager clicks “Chỉnh sửa” button</td><td> <p>System allow Competition Manager or Club Manager to create a new match with the following rules:</p> <ul style="list-style-type: none"> Title: text, 1-100 characters, required Description: text, 1-500 characters Address: text, 1-500 characters Start time: datetime, required End time: datetime, required Assign a team into match UC - 68 <p>[Exception 2, 3]</p> </td></tr> <tr> <td>4</td><td>Competition Manager clicks “Tạo” button</td><td>System responses notification “Chỉnh sửa trận đấu thành công” [Exception 1, 2]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Competition Manager clicks “Danh sách trận đấu” button on popup	System shows list of match in a round of competition.	2	Competition Manager clicks a match in list	System shows detail of match in a round of competition.	3	Competition Manager clicks “Chỉnh sửa” button	<p>System allow Competition Manager or Club Manager to create a new match with the following rules:</p> <ul style="list-style-type: none"> Title: text, 1-100 characters, required Description: text, 1-500 characters Address: text, 1-500 characters Start time: datetime, required End time: datetime, required Assign a team into match UC - 68 <p>[Exception 2, 3]</p>	4	Competition Manager clicks “Tạo” button	System responses notification “Chỉnh sửa trận đấu thành công” [Exception 1, 2]
Step	Actor actions	System responses																
1	Competition Manager clicks “Danh sách trận đấu” button on popup	System shows list of match in a round of competition.																
2	Competition Manager clicks a match in list	System shows detail of match in a round of competition.																
3	Competition Manager clicks “Chỉnh sửa” button	<p>System allow Competition Manager or Club Manager to create a new match with the following rules:</p> <ul style="list-style-type: none"> Title: text, 1-100 characters, required Description: text, 1-500 characters Address: text, 1-500 characters Start time: datetime, required End time: datetime, required Assign a team into match UC - 68 <p>[Exception 2, 3]</p>																
4	Competition Manager clicks “Tạo” button	System responses notification “Chỉnh sửa trận đấu thành công” [Exception 1, 2]																
Alternative Flows:	N/A																	
Exceptions:	No.	Causes	System Responses															
	1	Competition Manager clicks “Lưu thay đổi” button but nothing response	System shows “Chỉnh sửa thất bại. Vui lòng thử lại sau.”															
	2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet”															
	3	Title is out of range 1-100 characters	System shows “Tiêu đề nằm trong khoảng 1-100 kí tự. Vui lòng nhập lại”															

Priority:	Medium
Frequency of Use:	Regularly
Business Rules:	<ul style="list-style-type: none"> - Only Competition Manager/ Club Manager can create a new match - The time of a new match must be in range of start time and end time of round - Only edit information of match before start time of match 10 minutes - Competition Manager can edit status in all time - In all status, Competition Manager can change to Cancel except Delete - Competition Manager can delete match in all status except Finish and On-going - After created, the status of match is in ready - Each status will be automatic updated - A team is in match must be overcome the previous round and has status is active
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 77. <Competition Manager> Edit a match

2.2.66. <Competition Manager> Delete a match

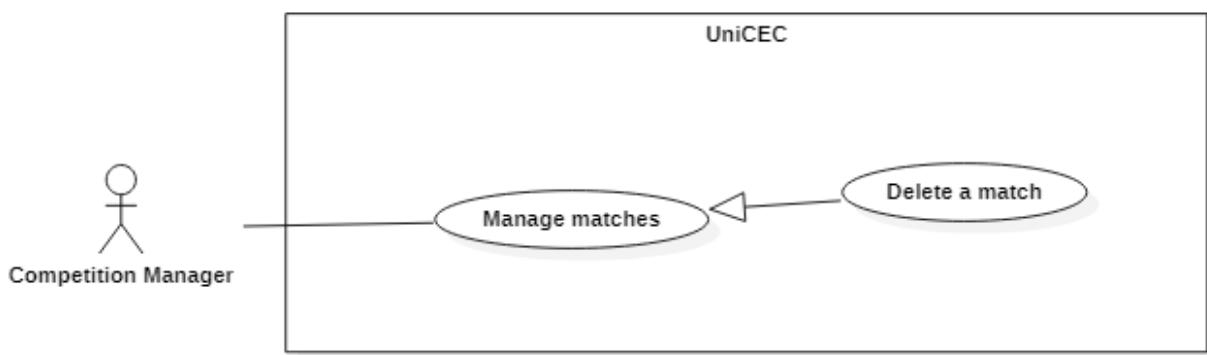


Figure 69. <Competition Manager> Delete a match

ID and Name:	UC – 66. Delete a match		
Created By:	HuyVL	Date Created:	29/06/2022

Primary Actor:	Competition Manager	Secondary Actors:	Club Manager															
Description:	Competition Manager can delete a match for each round for teams																	
Trigger:	Competition Manager clicks “Hủy trận” button																	
Preconditions:	<ul style="list-style-type: none"> The account has a role is Competition Manager Match must be created in round before 																	
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that delete a new match successfully Fail: System show error message 																	
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager clicks “Danh sách trận đấu” button on popup</td><td>System shows list of match in a round of competition.</td></tr> <tr> <td>2</td><td>Competition Manager clicks a match in list</td><td>System shows detail of match in a round of competition.</td></tr> <tr> <td>3</td><td>Competition Manager clicks “Hủy trận” button</td><td>System shows popup to confirm “Bạn có muốn hủy vòng đấu” with 2 options: Option1: “Đồng ý” button Option 2: “Không” button</td></tr> <tr> <td>3</td><td>Competition Manager clicks “Đồng ý” button</td><td>System responses notification “Hủy trận đấu thành công” [Alternative 1] [Exception 1, 2]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Competition Manager clicks “Danh sách trận đấu” button on popup	System shows list of match in a round of competition.	2	Competition Manager clicks a match in list	System shows detail of match in a round of competition.	3	Competition Manager clicks “Hủy trận” button	System shows popup to confirm “Bạn có muốn hủy vòng đấu” with 2 options: Option1: “Đồng ý” button Option 2: “Không” button	3	Competition Manager clicks “Đồng ý” button	System responses notification “Hủy trận đấu thành công” [Alternative 1] [Exception 1, 2]
Step	Actor actions	System responses																
1	Competition Manager clicks “Danh sách trận đấu” button on popup	System shows list of match in a round of competition.																
2	Competition Manager clicks a match in list	System shows detail of match in a round of competition.																
3	Competition Manager clicks “Hủy trận” button	System shows popup to confirm “Bạn có muốn hủy vòng đấu” with 2 options: Option1: “Đồng ý” button Option 2: “Không” button																
3	Competition Manager clicks “Đồng ý” button	System responses notification “Hủy trận đấu thành công” [Alternative 1] [Exception 1, 2]																
Alternative Flows:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager clicks “Không” button</td><td>System shows “Dừng hủy trận đấu thành công.”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	Competition Manager clicks “Không” button	System shows “Dừng hủy trận đấu thành công.”									
No.	Causes	System Responses																
1	Competition Manager clicks “Không” button	System shows “Dừng hủy trận đấu thành công.”																
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager clicks “Lưu thay đổi” button but nothing response</td><td>System shows “Chỉnh sửa thất bại. Vui lòng thử lại sau.”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Tạo mới thất bại. Mất kết nối internet”</td></tr> <tr> <td>3</td><td>Title is out of range 1-100 characters</td><td>System shows “Tiêu đề nằm trong khoảng 1-100 kí tự. Vui lòng nhập lại”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	Competition Manager clicks “Lưu thay đổi” button but nothing response	System shows “Chỉnh sửa thất bại. Vui lòng thử lại sau.”	2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet”	3	Title is out of range 1-100 characters	System shows “Tiêu đề nằm trong khoảng 1-100 kí tự. Vui lòng nhập lại”			
No.	Causes	System Responses																
1	Competition Manager clicks “Lưu thay đổi” button but nothing response	System shows “Chỉnh sửa thất bại. Vui lòng thử lại sau.”																
2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet”																
3	Title is out of range 1-100 characters	System shows “Tiêu đề nằm trong khoảng 1-100 kí tự. Vui lòng nhập lại”																

Priority:	Medium
Frequency of Use:	Regularly
Business Rules:	<ul style="list-style-type: none"> - Only Competition Manager/ Club Manager can edit a new match - The time of a new match must be in range of start time and end time of round - Only delete a match before start time of match 10 minutes
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 78. <Competition Manager> Delete a match

2.2.67. <Competition Manager> View a match

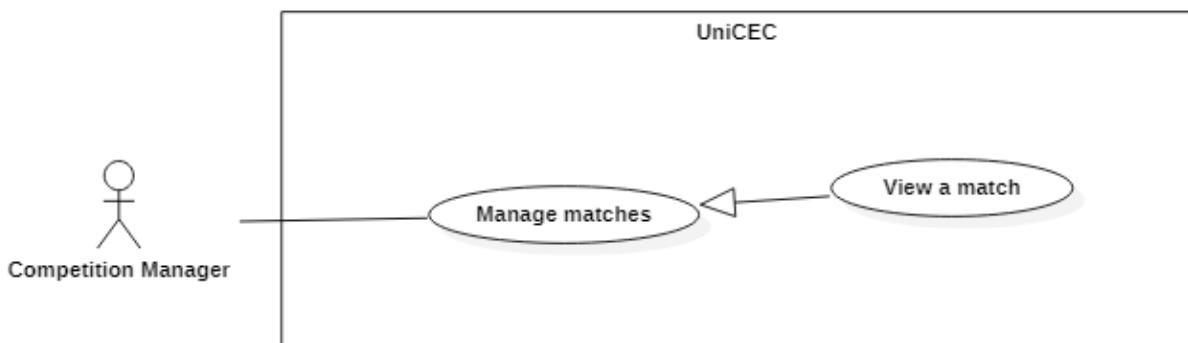


Figure 70. <Competition Manager> View a match

ID and Name:	UC-67. View a match		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Competition Manager	Secondary Actors:	Club Manager/ Student
Description:	Competition Manager can view a detail of a match		
Trigger:	Competition Manager clicks on a match in a list		
Preconditions:	<ul style="list-style-type: none"> • The account has a role is Competition Manager 		
Post-conditions:	<ul style="list-style-type: none"> • Success: System shows detail of a match • Fail: System shows error message that can not view a match 		

Normal Flow:	Step	Actor actions	System responses
	1	Competition Manager clicks on a match in a list	<p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <p>[Exception 1, 2]</p>
Alternative Flows:	N/A		
Exceptions:	No.	Causes	System Responses
	1	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
	2	Competition Manager clicks to on a match in a list but no data	System shows “ Mất kết nối. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> - Only Competition Manager, Club Manager, Student can view a detail of a match 		
Other Information:	N/A		
Assumptions:	<p>Internet is available.</p> <p>System is working</p>		

Table 79. <Competition Manager> View a match

2.2.68. <Competition Manager> Assign a team to a match

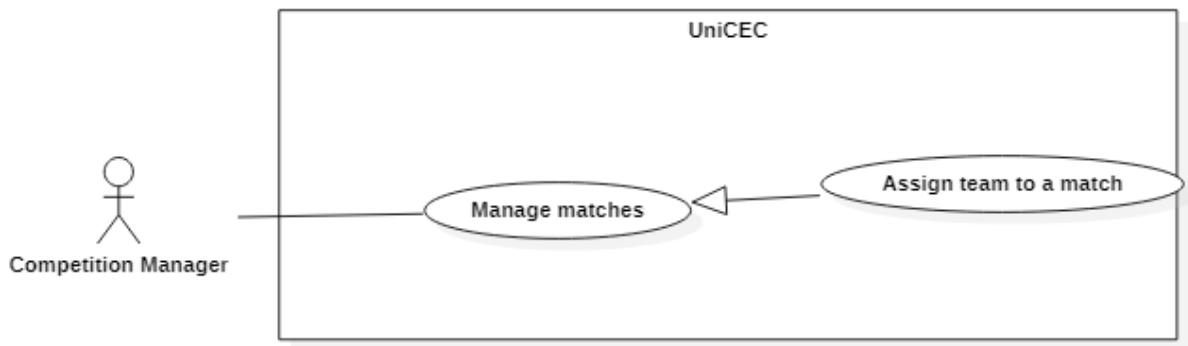


Figure 71. <Competition Manager> Assign a team to a match

ID and Name:	UC-68 Assign Team In Match											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Competition Manager	Secondary Actors:	N/A									
Description:	Competition Manager can assign a team in match											
Trigger:	A Competition Manager clicks “Thêm đội” button on Match detail screen											
Preconditions:	<ul style="list-style-type: none"> The account has a role is Competition Manager, Match must be status “Ready” 											
Post-conditions:	<ul style="list-style-type: none"> Success: System show that team is add in match successfully Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition choose team in drop down button</td><td>System show all teams have in competition with fulfill conditions to join this match</td></tr> <tr> <td>2</td><td>Competition Manager, clicks “Thêm đội”</td><td>System show dialog message: “Thêm thành công” [Exception 1, 2]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Competition choose team in drop down button	System show all teams have in competition with fulfill conditions to join this match	2	Competition Manager, clicks “Thêm đội”	System show dialog message: “Thêm thành công” [Exception 1, 2]
Step	Actor actions	System responses										
1	Competition choose team in drop down button	System show all teams have in competition with fulfill conditions to join this match										
2	Competition Manager, clicks “Thêm đội”	System show dialog message: “Thêm thành công” [Exception 1, 2]										
Alternative Flows:	N/A											

Exceptions:	Causes	System Responses
	1 Actor click “Thêm đội” button but system response error message	System shows error message
	2 Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium	
Frequency of Use:	Regularly	
Business Rules:	<ul style="list-style-type: none"> Only Competition Manager can assign team in match 	
Other Information:	N/A	
Assumptions:	Internet is available. System is working	

Table 80. <Competition Manager> Assign a team to a match

2.2.69. <Competition Manager> Sign out a team in a match

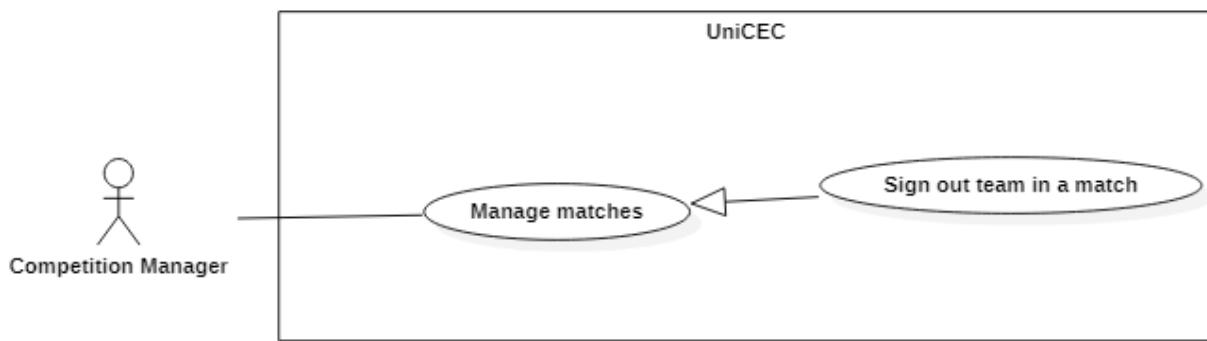


Figure 72. <Competition Manager> Sign out team in a match

ID and Name:	UC-69 Sign Out Team In Match		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Competition Manager	Secondary Actors:	N/A
Description:	Competition Manager can sign out a team in match		

Trigger:	A Competition Manager clicks red icon “garbage can” button in a team on detail match screen											
Preconditions:	<ul style="list-style-type: none"> The account has a role is Competition Manager, Match must have data of list team 											
Post-conditions:	<ul style="list-style-type: none"> Success: System show that team is delete team in match successfully Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager, clicks clicks red icon “garbage can” button in a team</td><td>System shows dialog message: “Xóa thành công” [Exception 1, 2]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Competition Manager, clicks clicks red icon “garbage can” button in a team	System shows dialog message: “Xóa thành công” [Exception 1, 2]			
Step	Actor actions	System responses										
1	Competition Manager, clicks clicks red icon “garbage can” button in a team	System shows dialog message: “Xóa thành công” [Exception 1, 2]										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th></th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actor clicks clicks red icon “garbage can” button but system response error message</td><td>System shows error message</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>				Causes	System Responses	1	Actor clicks clicks red icon “garbage can” button but system response error message	System shows error message	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
	Causes	System Responses										
1	Actor clicks clicks red icon “garbage can” button but system response error message	System shows error message										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> Only Competition Manager can sign out a team in match 											
Other Information:	N/A											
Assumptions:	<p>Internet is available.</p> <p>System is working</p>											

Table 81. <Competition Manager> Sign out team in a match

2.2.70. <Competition Manager> Create a result

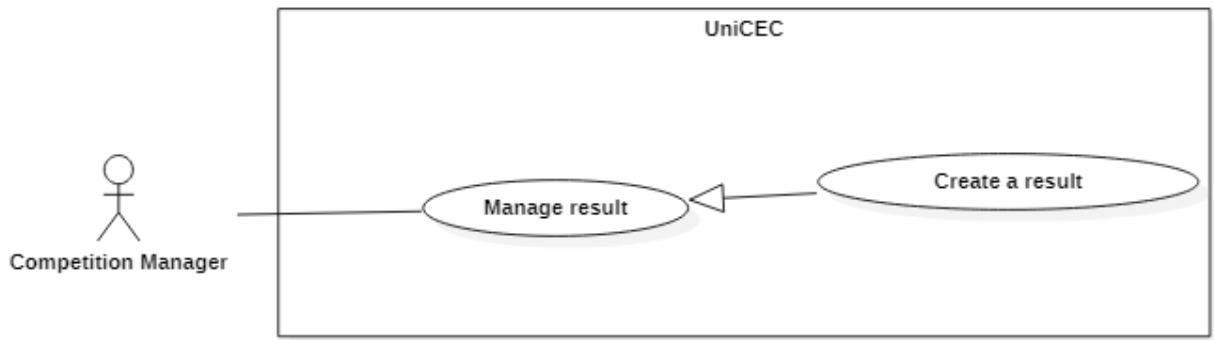


Figure 73. <Competition Manager> Create a result

ID and Name:	UC-70. Create a result		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Competition Manager	Secondary Actors:	Club Manager
Description:	Competition Manager can create a result of match, round and competition		
Trigger:	<ul style="list-style-type: none"> - Type: Elimination + Competition Manager clicks “Loại đội thi” button in a match + Competition Manager clicks “Loại” switch button in a round - Type: Round-robin + Competition Manager clicks “Điểm số” textbox in a match + Competition Manager clicks “Điểm số” textbox in a round 		
Preconditions:	<ul style="list-style-type: none"> • The account has a role is Competition Manager 		
Post-conditions:	<ul style="list-style-type: none"> • Success: System shows result of a match, round or final competition • Fail: System shows error message that can not view a match 		

Normal Flow:	<p>- 1.Type: Elimination</p> <p>+ 1.1 In a match</p> <table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager clicks a match on list of match in round</td><td> <p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <ul style="list-style-type: none"> ○ No ○ Name ○ Score ○ Setting </td></tr> <tr> <td>2</td><td>Competition Manager clicks “Loại đội thi” icon in List team participated</td><td> <p>System shows notification “Cập nhật trạng thái thành công” and change status of team in match is “Loại”</p> <p>[Alternative 3.1]</p> <p>[Exception 1, 2]</p> </td></tr> </tbody> </table> <p>+ 1.2 In a round</p> <table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager clicks a round on list of round in competition</td><td> <p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ○ Name ○ Number of match is participated ○ Status team </td></tr> <tr> <td>2</td><td>Competition Manager change switch button in List team participated</td><td> <p>System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Loại”</p> <p>[Alternative 3.2]</p> <p>[Exception 1, 2]</p> </td></tr> </tbody> </table> <p>- 2. Type: Round - robin</p>				Step	Actor actions	System responses	1	Competition Manager clicks a match on list of match in round	<p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <ul style="list-style-type: none"> ○ No ○ Name ○ Score ○ Setting 	2	Competition Manager clicks “Loại đội thi” icon in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in match is “Loại”</p> <p>[Alternative 3.1]</p> <p>[Exception 1, 2]</p>	Step	Actor actions	System responses	1	Competition Manager clicks a round on list of round in competition	<p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ○ Name ○ Number of match is participated ○ Status team 	2	Competition Manager change switch button in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Loại”</p> <p>[Alternative 3.2]</p> <p>[Exception 1, 2]</p>
Step	Actor actions	System responses																				
1	Competition Manager clicks a match on list of match in round	<p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <ul style="list-style-type: none"> ○ No ○ Name ○ Score ○ Setting 																				
2	Competition Manager clicks “Loại đội thi” icon in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in match is “Loại”</p> <p>[Alternative 3.1]</p> <p>[Exception 1, 2]</p>																				
Step	Actor actions	System responses																				
1	Competition Manager clicks a round on list of round in competition	<p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ○ Name ○ Number of match is participated ○ Status team 																				
2	Competition Manager change switch button in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Loại”</p> <p>[Alternative 3.2]</p> <p>[Exception 1, 2]</p>																				

	+ 2.1 In a match		
Step	Actor actions	System responses	
1	Competition Manager clicks a match on list of match in round	<p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <ul style="list-style-type: none"> ○ No ○ Name ○ Score ○ Setting 	
2	Competition Manager inputs score of team in this match	<p>System shows notification “Cập nhật điểm thành công”</p> <p>[Alternative 1]</p> <p>[Exception 1, 2]</p>	
	+ 2.2 In a round		
Step	Actor actions	System responses	
1	Competition Manager clicks a round on list of rounds in competition	<p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ○ Name ○ Number of match is participated ○ Status team 	
2	Competition Manager inputs score of team in this round	<p>System shows notification “Cập nhật điểm thành công”</p> <p>[Exception 1, 2]</p>	
3	Competition Manager change switch button in list team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Loại”</p> <p>[Alternative 4.1]</p> <p>[Exception 1, 2]</p>	

<p>Alternative Flows:</p>	<p>- 3. Type: Elimination</p> <p>+ 3.1 In a match</p> <table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager clicks a match on list of match in round</td><td> <p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <ul style="list-style-type: none"> ○ No ○ Name ○ Score ○ Setting </td></tr> <tr> <td>2</td><td>Competition Manager clicks “Khôi phục đội thi” icon in List team participated</td><td> <p>System shows notification “Cập nhật trạng thái thành công” and change status of team in match is “Hoạt động”</p> <p>[Exception 1, 2]</p> </td></tr> </tbody> </table> <p>+ 3.2 In a round</p> <table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager clicks a round on list of round in competition</td><td> <p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ○ Name ○ Number of match is participated • Status team </td></tr> <tr> <td>2</td><td>Competition Manager change switch button in List team participated</td><td> <p>System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Hoạt động”</p> <p>[Exception 1, 2]</p> </td></tr> </tbody> </table> <p>- 4. Type: Round-robin</p> <p>+ 4.1 In a round</p>	Step	Actor actions	System responses	1	Competition Manager clicks a match on list of match in round	<p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <ul style="list-style-type: none"> ○ No ○ Name ○ Score ○ Setting 	2	Competition Manager clicks “Khôi phục đội thi” icon in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in match is “Hoạt động”</p> <p>[Exception 1, 2]</p>	Step	Actor actions	System responses	1	Competition Manager clicks a round on list of round in competition	<p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ○ Name ○ Number of match is participated • Status team 	2	Competition Manager change switch button in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Hoạt động”</p> <p>[Exception 1, 2]</p>
Step	Actor actions	System responses																	
1	Competition Manager clicks a match on list of match in round	<p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <ul style="list-style-type: none"> ○ No ○ Name ○ Score ○ Setting 																	
2	Competition Manager clicks “Khôi phục đội thi” icon in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in match is “Hoạt động”</p> <p>[Exception 1, 2]</p>																	
Step	Actor actions	System responses																	
1	Competition Manager clicks a round on list of round in competition	<p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ○ Name ○ Number of match is participated • Status team 																	
2	Competition Manager change switch button in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Hoạt động”</p> <p>[Exception 1, 2]</p>																	

	Step	Actor actions	System responses	
	1	Competition Manager clicks a round on list of rounds in competition	<p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ◦ Name ◦ Number of match is participated ◦ Status team 	
	2	Competition Manager inputs score of team in this round	System shows notification “Cập nhật điểm thành công” [Exception 1, 2]	
	3	Competition Manager change switch button in list team participated	System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Tiếp tục” [Exception 1, 2]	

Exceptions:	No.	Causes	System Responses		
	1	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”		
	2	Competition Manager clicks to on a match in a list but no data	System shows “ Mất kết nối. Vui lòng thử lại sau”		
Priority:	Medium				
Frequency of Use:	Regularly				
Business Rules:	<ul style="list-style-type: none"> - Only Competition Manager can create a result for team in each match, round and competition - Result of round will be based on each match <ul style="list-style-type: none"> + Type: Elimination: Team will be automatic updated if team is fail in match + Type: Round-robin: Team will be automatic updated score from match to existing point (plus each part) - Final result of competition will be based on each round <ul style="list-style-type: none"> + Type: Elimination: Team will be automatic updated if team is fail in round + Type: Round-robin: Team will be automatic updated score from round to existing point (plus each part) - A next round participated will be updated base on the previous result, if team is fail, it will not appear in next round - Competition Manager can update in all status of team in match, round except delete, cancel 				
Other Information:	N/A				
Assumptions:	Internet is available. System is working				

Table 82. <Competition Manager> Create a result

2.2.71. <Competition Manager> Edit a result

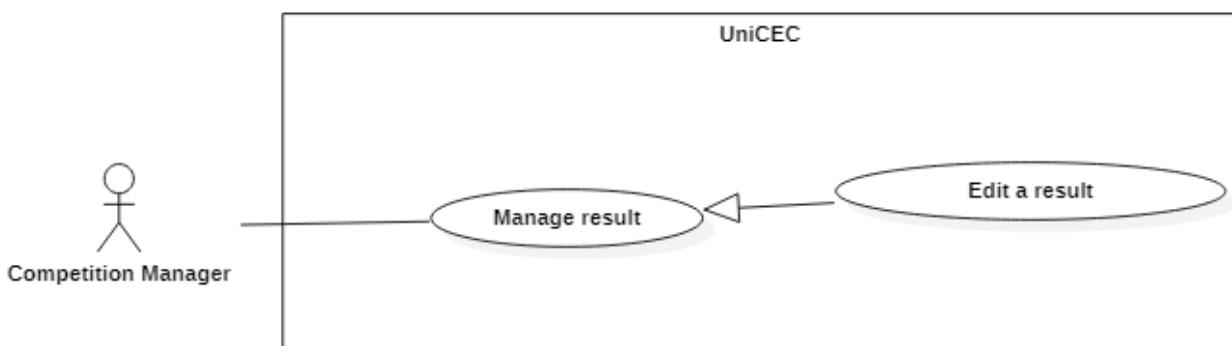


Figure 74. <Competition Manager> Edit a result

ID and Name:	UC-70. Create a result		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Competition Manager	Secondary Actors:	Club Manager
Description:	Competition Manager can create a result of match, round and competition		
Trigger:	<ul style="list-style-type: none"> - Type: Elimination <ul style="list-style-type: none"> + Competition Manager clicks “Loại đội thi” button in a match + Competition Manager clicks “Loại” switch button in a round - Type: Round-robin <ul style="list-style-type: none"> + Competition Manager clicks “Điểm số” textbox in a match + Competition Manager clicks “Điểm số” textbox in a round 		
Preconditions:	<ul style="list-style-type: none"> • The account has a role is Competition Manager 		
Post-conditions:	<ul style="list-style-type: none"> • Success: System shows result of a match, round or final competition • Fail: System shows error message that can not view a match 		

Normal Flow:	<p>- 1.Type: Elimination</p> <p>+ 1.1 In a match</p> <table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager clicks a match on list of match in round</td><td> <p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <ul style="list-style-type: none"> ○ No ○ Name ○ Score ○ Setting </td></tr> <tr> <td>2</td><td>Competition Manager clicks “Loại đội thi” icon in List team participated</td><td> <p>System shows notification “Cập nhật trạng thái thành công” and change status of team in match is “Loại”</p> <p>[Alternative 3.1]</p> <p>[Exception 1, 2]</p> </td></tr> </tbody> </table> <p>+ 1.2 In a round</p> <table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager clicks a round on list of round in competition</td><td> <p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ○ Name ○ Number of match is participated ○ Status team </td></tr> <tr> <td>2</td><td>Competition Manager change switch button in List team participated</td><td> <p>System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Loại”</p> <p>[Alternative 3.2]</p> <p>[Exception 1, 2]</p> </td></tr> </tbody> </table> <p>- 2. Type: Round - robin</p>				Step	Actor actions	System responses	1	Competition Manager clicks a match on list of match in round	<p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <ul style="list-style-type: none"> ○ No ○ Name ○ Score ○ Setting 	2	Competition Manager clicks “Loại đội thi” icon in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in match is “Loại”</p> <p>[Alternative 3.1]</p> <p>[Exception 1, 2]</p>	Step	Actor actions	System responses	1	Competition Manager clicks a round on list of round in competition	<p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ○ Name ○ Number of match is participated ○ Status team 	2	Competition Manager change switch button in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Loại”</p> <p>[Alternative 3.2]</p> <p>[Exception 1, 2]</p>
Step	Actor actions	System responses																				
1	Competition Manager clicks a match on list of match in round	<p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <ul style="list-style-type: none"> ○ No ○ Name ○ Score ○ Setting 																				
2	Competition Manager clicks “Loại đội thi” icon in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in match is “Loại”</p> <p>[Alternative 3.1]</p> <p>[Exception 1, 2]</p>																				
Step	Actor actions	System responses																				
1	Competition Manager clicks a round on list of round in competition	<p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ○ Name ○ Number of match is participated ○ Status team 																				
2	Competition Manager change switch button in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Loại”</p> <p>[Alternative 3.2]</p> <p>[Exception 1, 2]</p>																				

	+ 2.1 In a match		
Step	Actor actions	System responses	
1	Competition Manager clicks a match on list of match in round	<p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <ul style="list-style-type: none"> ○ No ○ Name ○ Score ○ Setting 	
2	Competition Manager inputs score of team in this match	<p>System shows notification “Cập nhật điểm thành công”</p> <p>[Alternative 1]</p> <p>[Exception 1, 2]</p>	
	+ 2.2 In a round		
Step	Actor actions	System responses	
1	Competition Manager clicks a round on list of rounds in competition	<p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ○ Name ○ Number of match is participated ○ Status team 	
2	Competition Manager inputs score of team in this round	<p>System shows notification “Cập nhật điểm thành công”</p> <p>[Exception 1, 2]</p>	
3	Competition Manager change switch button in list team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Loại”</p> <p>[Alternative 4.1]</p> <p>[Exception 1, 2]</p>	

<p>Alternative Flows:</p>	<p>- 3. Type: Elimination</p> <p>+ 3.1 In a match</p> <table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager clicks a match on list of match in round</td><td> <p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <ul style="list-style-type: none"> ○ No ○ Name ○ Score ○ Setting </td></tr> <tr> <td>2</td><td>Competition Manager clicks “Khôi phục đội thi” icon in List team participated</td><td> <p>System shows notification “Cập nhật trạng thái thành công” and change status of team in match is “Hoạt động”</p> <p>[Exception 1, 2]</p> </td></tr> </tbody> </table> <p>+ 3.2 In a round</p> <table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager clicks a round on list of round in competition</td><td> <p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ○ Name ○ Number of match is participated • Status team </td></tr> <tr> <td>2</td><td>Competition Manager change switch button in List team participated</td><td> <p>System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Hoạt động”</p> <p>[Exception 1, 2]</p> </td></tr> </tbody> </table> <p>- 4. Type: Round-robin</p> <p>+ 4.1 In a round</p>	Step	Actor actions	System responses	1	Competition Manager clicks a match on list of match in round	<p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <ul style="list-style-type: none"> ○ No ○ Name ○ Score ○ Setting 	2	Competition Manager clicks “Khôi phục đội thi” icon in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in match is “Hoạt động”</p> <p>[Exception 1, 2]</p>	Step	Actor actions	System responses	1	Competition Manager clicks a round on list of round in competition	<p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ○ Name ○ Number of match is participated • Status team 	2	Competition Manager change switch button in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Hoạt động”</p> <p>[Exception 1, 2]</p>
Step	Actor actions	System responses																	
1	Competition Manager clicks a match on list of match in round	<p>System shows detail of match in a round of competition with following information:</p> <ul style="list-style-type: none"> • Title • Description • Address • Start time • End time • List team participated <ul style="list-style-type: none"> ○ No ○ Name ○ Score ○ Setting 																	
2	Competition Manager clicks “Khôi phục đội thi” icon in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in match is “Hoạt động”</p> <p>[Exception 1, 2]</p>																	
Step	Actor actions	System responses																	
1	Competition Manager clicks a round on list of round in competition	<p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ○ Name ○ Number of match is participated • Status team 																	
2	Competition Manager change switch button in List team participated	<p>System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Hoạt động”</p> <p>[Exception 1, 2]</p>																	

	Step	Actor actions	System responses	
	1	Competition Manager clicks a round on list of rounds in competition	<p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ◦ Name ◦ Number of match is participated ◦ Status team 	
	2	Competition Manager inputs score of team in this round	System shows notification “Cập nhật điểm thành công” [Exception 1, 2]	
	3	Competition Manager change switch button in list team participated	System shows notification “Cập nhật trạng thái thành công” and change status of team in round is “Tiếp tục” [Exception 1, 2]	

Exceptions:	No.	Causes	System Responses		
	1	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”		
	2	Competition Manager clicks to on a match in a list but no data	System shows “ Mất kết nối. Vui lòng thử lại sau”		
Priority:	Medium				
Frequency of Use:	Regularly				
Business Rules:	<ul style="list-style-type: none"> - Only Competition Manager can create a result for team in each match, round and competition - Result of round will be based on each match <ul style="list-style-type: none"> + Type: Elimination: Team will be automatic updated if team is fail in match + Type: Round-robin: Team will be automatic updated score from match to existing point (plus each part) - Final result of competition will be based on each round <ul style="list-style-type: none"> + Type: Elimination: Team will be automatic updated if team is fail in round + Type: Round-robin: Team will be automatic updated score from round to existing point (plus each part) - A next round participated will be updated base on the previous result, if team is fail, it will not appear in next round - Competition Manager can update in all status of team in match, round except delete, cancel 				
Other Information:	N/A				
Assumptions:	Internet is available. System is working				

Table 83. <Competition Manager> Edit a result

2.2.72. <Competition Manager> View a result

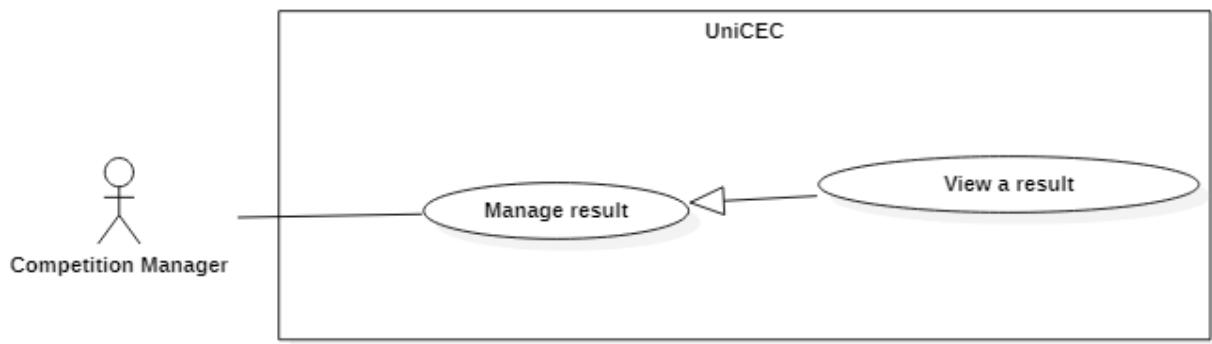


Figure 75. <Competition Manager> View a result

ID and Name:	UC-72. View a result		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Competition Manager	Secondary Actors:	Club Manager
Description:	Competition Manager can create a result of round and competition		
Trigger:	Competition Manager clicks 'Xem kết quả' button		
Preconditions:	<ul style="list-style-type: none">The account has a role is Competition ManagerCompetition must be in finish status		
Post-conditions:	<ul style="list-style-type: none">Success: System shows result of a round or final competitionFail: System shows error message that can not view a match		

Normal Flow:	<p>- In a round</p> <table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager clicks a round on list of round in competition</td><td> <p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ◦ Name ◦ Number of match is participated ◦ Status team <p>[Exception 1, 2]</p> </td></tr> </tbody> </table>		Step	Actor actions	System responses	1	Competition Manager clicks a round on list of round in competition	<p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ◦ Name ◦ Number of match is participated ◦ Status team <p>[Exception 1, 2]</p>		
Step	Actor actions	System responses								
1	Competition Manager clicks a round on list of round in competition	<p>System shows detail of round in competition with following information:</p> <ul style="list-style-type: none"> • Title • Type • List team participated with following information: <ul style="list-style-type: none"> ◦ Name ◦ Number of match is participated ◦ Status team <p>[Exception 1, 2]</p>								
<p>- In a final result of competition</p> <table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Competition Manager clicks Competition in list</td><td>System shows detail of competition.</td></tr> <tr> <td>2</td><td>Competition Manager clicks “Xem kết quả” button</td><td> <p>System shows result of competition with following information:</p> <ul style="list-style-type: none"> • Rank • Team name • Number of member • Total Score <p>[Exception 1, 2]</p> </td></tr> </tbody> </table>		Step	Actor actions	System responses	1	Competition Manager clicks Competition in list	System shows detail of competition.	2	Competition Manager clicks “Xem kết quả” button	<p>System shows result of competition with following information:</p> <ul style="list-style-type: none"> • Rank • Team name • Number of member • Total Score <p>[Exception 1, 2]</p>
Step	Actor actions	System responses								
1	Competition Manager clicks Competition in list	System shows detail of competition.								
2	Competition Manager clicks “Xem kết quả” button	<p>System shows result of competition with following information:</p> <ul style="list-style-type: none"> • Rank • Team name • Number of member • Total Score <p>[Exception 1, 2]</p>								
Alternative Flow										
Exceptions:	No.	Causes	System Responses							
	1	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”							
	2	Competition Manager clicks but nothing responses	System shows “Mất kết nối. Vui lòng thử lại sau”							
Priority:	Medium									
Frequency of Use:	Regularly									

Business Rules:	<ul style="list-style-type: none"> - Result of round will be based on each match <ul style="list-style-type: none"> + Type: Elimination: Team will be automatic updated if team is fail in match + Type: Round-robin: Team will be automatic updated score from match to existing point (plus each part) - Final result of competition will be based on each round <ul style="list-style-type: none"> + Type: Elimination: Team will be automatic updated if team is fail in round + Type: Round-robin: Team will be automatic updated score from round to existing point (plus each part) - Everyone can view result of competition and round
Other Information:	N/A
Assumptions:	Internet is available. System is working

Table 84. <Competition Manager> View a result

2.2.73. <Student> View a published & registered competition

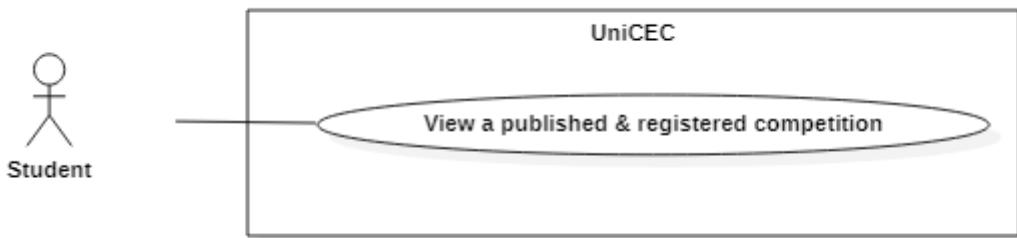


Figure 76. <Student> View a published & registered competition

ID and Name:	UC-73 View a published & registered competition		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Student	Secondary Actors:	Guest
Description:	Student want view a competition		
Trigger:	A Student click "Xem chi tiết" button		
Precondition S:	<ul style="list-style-type: none"> • The account has active status • The account has a role is Student 		
Post-conditions:	<ul style="list-style-type: none"> • Success: System show a detail a competition • Fail: System show error message 		

Normal Flow:	Step	Actor actions	System responses									
	1	Student click “Xem chi tiết” button.	<p>System show table that include competition following information:</p> <ul style="list-style-type: none"> • Name: text • Image: file image, • Description: text, • StartTimeRegister: datetime • EndTimeRegister: datetime, • CeremonyTime: datetime • StartTime: datetime, • EndTime: datetime, • Content: text • Fee: double • Scope: text • Address: text • AddressName: text • SeedsPoint: double • MajorInCompetition: List<Major> • CompetitionEntities:List<Competition> • isSponsor: bool • isEvent: bool • Status: Enum • CompetitionRound:List<Round> • Team: List<Team> • CompetitionInClub: List<Competition> <p>[Exception 1, 2]</p>									
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Student click “Xem chi tiết” button but system response error message</td><td>System shows “response error message”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			o.	Causes	System Responses	1	Student click “Xem chi tiết” button but system response error message	System shows “response error message”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses										
1	Student click “Xem chi tiết” button but system response error message	System shows “response error message”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> • Only Competitions with status published and registered are shown 											
Other Information:	N/A											

Assumptions:	Internet is available. System is working
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Table 85. <Student> View a published & registered competition

2.2.74. <Student> Search a published & registered competition

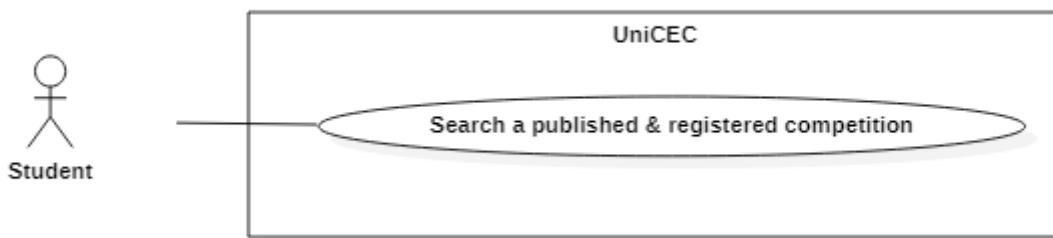


Figure 77. <Student> Search a published & registered competition

ID and Name:	UC-74 Search a published & registered competition								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	Student	Secondary Actors:	Guest						
Description:	Student can search a competition base on scope, name								
Trigger:	A Student click “Tìm Kiếm” button								
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Student 								
Post-conditions:	<ul style="list-style-type: none"> Success: System show list of competitions Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A Student click “Tìm Kiếm” button</td> <td> System show table that include competition with following information: <ul style="list-style-type: none"> Name: text Image: file image, Description: text, StartTimeRegister: datetime Fee: double Scope: text MajorInCompetition: List<Major> isSponsor: bool isEvent: bool </td> </tr> </tbody> </table>	Step	Actor actions	System responses	1	A Student click “Tìm Kiếm” button	System show table that include competition with following information: <ul style="list-style-type: none"> Name: text Image: file image, Description: text, StartTimeRegister: datetime Fee: double Scope: text MajorInCompetition: List<Major> isSponsor: bool isEvent: bool 		
Step	Actor actions	System responses							
1	A Student click “Tìm Kiếm” button	System show table that include competition with following information: <ul style="list-style-type: none"> Name: text Image: file image, Description: text, StartTimeRegister: datetime Fee: double Scope: text MajorInCompetition: List<Major> isSponsor: bool isEvent: bool 							

			<ul style="list-style-type: none"> • Status: Enum <p>[Exception 1, 2]</p>									
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A Student click “Tìm Kiếm” button but no data found</td> <td>System shows “Danh sách trống”</td> </tr> <tr> <td>2</td> <td>Lost of internet connection</td> <td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td> </tr> </tbody> </table>			o.	Causes	System Responses	1	A Student click “Tìm Kiếm” button but no data found	System shows “Danh sách trống”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses										
1	A Student click “Tìm Kiếm” button but no data found	System shows “Danh sách trống”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> • Only Competitions with status published and registered are shown 											
Other Information:	N/A											
Assumptions:	<p>Internet is available.</p> <p>System is working</p>											

Table 86. <Student> Search a published & registered competition

2.2.75. <Student> View a published & registered event

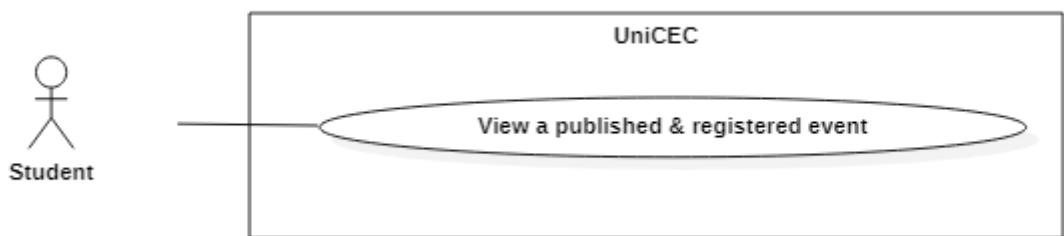


Figure 78. <Student> View a published & registered competition

ID and Name:	UC-75 View a published & registered competition
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Created By:	HuyVL	Date Created:	29/06/2022					
Primary Actor:	Student	Secondary Actors:	Guest					
Description:	Student want view an event							
Trigger:	A Student click "Xem chi tiết" button							
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has role is Student 							
Post-conditions:	<ul style="list-style-type: none"> Success: System show a detail an event Fail: System show error message 							
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Student click "Xem chi tiết" button.</td> <td> <p>System show table that include event with following information:</p> <ul style="list-style-type: none"> Name: text Image: file image, Description: text, StartTimeRegister: datetime EndTimeRegister: datetime, CeremonyTime: datetime StartTime: datetime, EndTime: datetime, Content: text Fee: double Scope: text Address: text AddressName: text SeedsPoint: double MajorInCompetition: List<Major> CompetitionEntities: List<CompetitionEntity> isSponsor: bool isEvent: bool Status: Enum CompetitionInClub: List<CompetitionInClub> <p>[Exception 1, 2]</p> </td> </tr> </tbody> </table>	Step	Actor actions	System responses	1	Student click "Xem chi tiết" button.	<p>System show table that include event with following information:</p> <ul style="list-style-type: none"> Name: text Image: file image, Description: text, StartTimeRegister: datetime EndTimeRegister: datetime, CeremonyTime: datetime StartTime: datetime, EndTime: datetime, Content: text Fee: double Scope: text Address: text AddressName: text SeedsPoint: double MajorInCompetition: List<Major> CompetitionEntities: List<CompetitionEntity> isSponsor: bool isEvent: bool Status: Enum CompetitionInClub: List<CompetitionInClub> <p>[Exception 1, 2]</p>	
Step	Actor actions	System responses						
1	Student click "Xem chi tiết" button.	<p>System show table that include event with following information:</p> <ul style="list-style-type: none"> Name: text Image: file image, Description: text, StartTimeRegister: datetime EndTimeRegister: datetime, CeremonyTime: datetime StartTime: datetime, EndTime: datetime, Content: text Fee: double Scope: text Address: text AddressName: text SeedsPoint: double MajorInCompetition: List<Major> CompetitionEntities: List<CompetitionEntity> isSponsor: bool isEvent: bool Status: Enum CompetitionInClub: List<CompetitionInClub> <p>[Exception 1, 2]</p>						
Alternative Flows:	N/A							
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Student click "Xem chi tiết" button but system response error message</td> <td>System shows "response error message"</td> </tr> </tbody> </table>	o.	Causes	System Responses	1	Student click "Xem chi tiết" button but system response error message	System shows "response error message"	
o.	Causes	System Responses						
1	Student click "Xem chi tiết" button but system response error message	System shows "response error message"						

	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only Events with status published and registered are shown Can't view Team and Round in Event 		
Other Information:	N/A		
Assumptions:	<p>Internet is available.</p> <p>System is working</p>		

Table 87. <Student> View a published & registered competition

2.2.76. <Student> Search a published & registered competition

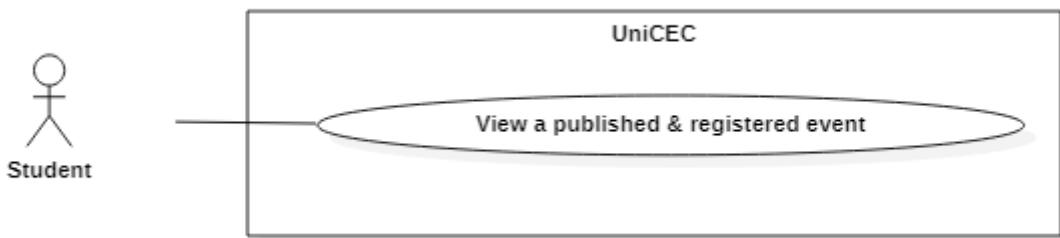


Figure 79. <Student> Search a published & registered competition

ID and Name:	UC-76 Search a published & registered competition		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Student	Secondary Actors:	Guest
Description:	Club Manager can search a event based on scope, name		
Trigger:	A Student click “Tìm Kiếm” button		
Preconditions:	<ul style="list-style-type: none"> The account has active status 		

	<ul style="list-style-type: none"> The account has a role is Student 									
Post-conditions:	<ul style="list-style-type: none"> Success: System show list of events Fail: System show error message 									
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>A Student click “Tìm Kiếm” button</td><td> <p>System show table that include event with following information:</p> <ul style="list-style-type: none"> Name: text Image: file image, Description: text, StartTimeRegister: datetime Fee: double Scope: text MajorInCompetition: List<Major> isSponsor: bool isEvent: bool Status: Enum <p>[Exception 1, 2]</p> </td></tr> </tbody> </table>	Step	Actor actions	System responses	1	A Student click “Tìm Kiếm” button	<p>System show table that include event with following information:</p> <ul style="list-style-type: none"> Name: text Image: file image, Description: text, StartTimeRegister: datetime Fee: double Scope: text MajorInCompetition: List<Major> isSponsor: bool isEvent: bool Status: Enum <p>[Exception 1, 2]</p>			
Step	Actor actions	System responses								
1	A Student click “Tìm Kiếm” button	<p>System show table that include event with following information:</p> <ul style="list-style-type: none"> Name: text Image: file image, Description: text, StartTimeRegister: datetime Fee: double Scope: text MajorInCompetition: List<Major> isSponsor: bool isEvent: bool Status: Enum <p>[Exception 1, 2]</p>								
Alternative Flows:	N/A									
Exceptions:	<table border="1"> <thead> <tr> <th>O.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>A Student click “Tìm Kiếm” button but no data found</td><td>System shows “Danh sách trống”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>	O.	Causes	System Responses	1	A Student click “Tìm Kiếm” button but no data found	System shows “Danh sách trống”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
O.	Causes	System Responses								
1	A Student click “Tìm Kiếm” button but no data found	System shows “Danh sách trống”								
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”								
Priority:	Medium									
Frequency of Use:	Regularly									
Business Rules:	<ul style="list-style-type: none"> Only Events with status published and registered are shown Can't view Team and Round in Event 									
Other Information:	N/A									
Assumptions:	<p>Internet is available.</p> <p>System is working</p>									

Table 88. <Student> Search a published & registered competition

2.2.77. <Student> Participate in a competition

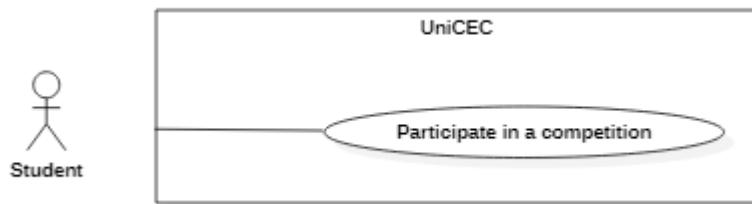


Figure 80. <Student> Participate in a competition

ID and Name:	UC-77 Participate in a competition or event								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	Student	Secondary Actors:	Member						
Description:	Student or Member after view detail of competition and want to participate in that								
Trigger:	A Student or Member clicks “Tham gia” button								
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Student, Member in system 								
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that participate in competition or event successfully Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A Student or Member clicks “Xem chi tiết” button of competition or event</td> <td> <p>System shows detail of competition or event with following information:</p> <ul style="list-style-type: none"> • Competition Type • Charge fee • Start Register time • End Register time • Start Time • Title • Content • Major • Sponsor • Organizer • Scope • Fee • Number of participant • View • “Xem nhóm đăng ký” button </td> </tr> </tbody> </table>	Step	Actor actions	System responses	1	A Student or Member clicks “Xem chi tiết” button of competition or event	<p>System shows detail of competition or event with following information:</p> <ul style="list-style-type: none"> • Competition Type • Charge fee • Start Register time • End Register time • Start Time • Title • Content • Major • Sponsor • Organizer • Scope • Fee • Number of participant • View • “Xem nhóm đăng ký” button 		
Step	Actor actions	System responses							
1	A Student or Member clicks “Xem chi tiết” button of competition or event	<p>System shows detail of competition or event with following information:</p> <ul style="list-style-type: none"> • Competition Type • Charge fee • Start Register time • End Register time • Start Time • Title • Content • Major • Sponsor • Organizer • Scope • Fee • Number of participant • View • “Xem nhóm đăng ký” button 							

			<ul style="list-style-type: none"> “Xem vòng thi” button 												
	2	A Student or Member clicks “Tham gia” button	System responses that participate in competition or event successfully [Exception 1, 2, 3]												
Alternative Flows:	N/A														
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A Student or Member clicks “Tham gia” button but not thing responses</td> <td>System shows “Đã có lỗi trong quá trình. Vui lòng thử lại”</td> </tr> <tr> <td>2</td> <td>Lost of internet connection</td> <td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td> </tr> <tr> <td>3</td> <td>The maximum number of participants has been reached</td> <td>System shows “Đã đủ số lượng người tham gia. Vui lòng quay lại sau”</td> </tr> </tbody> </table>			o.	Causes	System Responses	1	A Student or Member clicks “Tham gia” button but not thing responses	System shows “Đã có lỗi trong quá trình. Vui lòng thử lại”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”	3	The maximum number of participants has been reached	System shows “Đã đủ số lượng người tham gia. Vui lòng quay lại sau”
o.	Causes	System Responses													
1	A Student or Member clicks “Tham gia” button but not thing responses	System shows “Đã có lỗi trong quá trình. Vui lòng thử lại”													
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”													
3	The maximum number of participants has been reached	System shows “Đã đủ số lượng người tham gia. Vui lòng quay lại sau”													
Priority:	Medium														
Frequency of Use:	Regularly														
Business Rules:	<ul style="list-style-type: none"> Only Student, Member can participate in a competition Participation period must be within the period from register time to the end of register time 														
Other Information:	N/A														
Assumptions:	Internet is available. System is working														

Table 89. <Student> Participate in a competition

2.2.78. <Student> Participate in an event

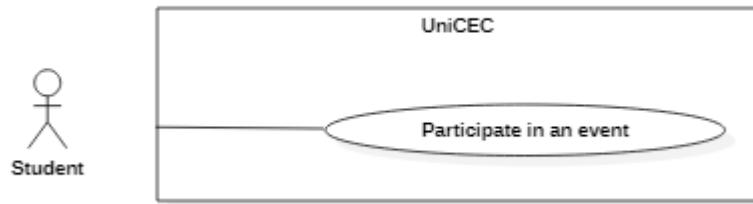


Figure 81. <Student> Participate in an event

ID and Name:	UC-78 Participate in an event							
Created By:	HuyVL	Date Created:	29/06/2022					
Primary Actor:	Student	Secondary Actors:	Member					
Description:	Student or Member after view detail of event and want to participate in that							
Trigger:	A Student or Member clicks "Tham gia" button							
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Student, Member in system 							
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that participate in competition or event successfully Fail: System show error message 							
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A Student or Member clicks "Xem chi tiết" button of competition or event</td> <td> <p>System shows detail of competition or event with following information:</p> <ul style="list-style-type: none"> • Competition Type • Charge fee • Start Register time • End Register time • Start Time • Title • Content • Major • Sponsor • Organizer • Scope • Fee • Number of participant • View </td> </tr> </tbody> </table>	Step	Actor actions	System responses	1	A Student or Member clicks "Xem chi tiết" button of competition or event	<p>System shows detail of competition or event with following information:</p> <ul style="list-style-type: none"> • Competition Type • Charge fee • Start Register time • End Register time • Start Time • Title • Content • Major • Sponsor • Organizer • Scope • Fee • Number of participant • View 	
Step	Actor actions	System responses						
1	A Student or Member clicks "Xem chi tiết" button of competition or event	<p>System shows detail of competition or event with following information:</p> <ul style="list-style-type: none"> • Competition Type • Charge fee • Start Register time • End Register time • Start Time • Title • Content • Major • Sponsor • Organizer • Scope • Fee • Number of participant • View 						

	2	A Student or Member clicks “Tham gia” button	System responses that participate in competition or event successfully [Exception 1, 2, 3]												
Alternative Flows:	N/A														
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A Student or Member clicks “Tham gia” button but not thing responses</td> <td>System shows “Đã có lỗi trong quá trình. Vui lòng thử lại”</td> </tr> <tr> <td>2</td> <td>Lost of internet connection</td> <td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td> </tr> <tr> <td>3</td> <td>The maximum number of participants has been reached</td> <td>System shows “Đã đủ số lượng người tham gia. Vui lòng quay lại sau”</td> </tr> </tbody> </table>			o.	Causes	System Responses	1	A Student or Member clicks “Tham gia” button but not thing responses	System shows “Đã có lỗi trong quá trình. Vui lòng thử lại”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”	3	The maximum number of participants has been reached	System shows “Đã đủ số lượng người tham gia. Vui lòng quay lại sau”
o.	Causes	System Responses													
1	A Student or Member clicks “Tham gia” button but not thing responses	System shows “Đã có lỗi trong quá trình. Vui lòng thử lại”													
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”													
3	The maximum number of participants has been reached	System shows “Đã đủ số lượng người tham gia. Vui lòng quay lại sau”													
Priority:	Medium														
Frequency of Use:	Regularly														
Business Rules:	<ul style="list-style-type: none"> Only Student, Member can participate in a event Participation period must be within the period from register time to the end of register time 														
Other Information:	N/A														
Assumptions:	Internet is available. System is working														

Table 90. <Student> Participate in an event

2.2.79. <Student> Participate in a club

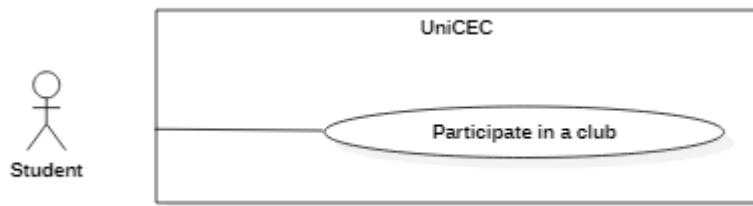


Figure 82. <Student> Participate in a club

ID and Name:	UC-79 Participate in a club														
Created By:	HuyVL	Date Created:	29/06/2022												
Primary Actor:	Student	Secondary Actors:	Member												
Description:	Student or Member after view detail of event and want to participate in that														
Trigger:	A Student or Member clicks “Tham gia” button														
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Student, Member in system 														
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that participate in competition or event successfully Fail: System show error message 														
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A Student or Member clicks “Xem chi tiết” button of competition or event</td> <td>System shows detail of club with following information: <ul style="list-style-type: none"> Avatar Name Description “Tham gia” button </td> </tr> <tr> <td>2</td> <td>A Student or Member clicks “Tham gia” button</td> <td>System responses that participate in competition or event successfully [Exception 1, 2, 3]</td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	A Student or Member clicks “Xem chi tiết” button of competition or event	System shows detail of club with following information: <ul style="list-style-type: none"> Avatar Name Description “Tham gia” button 	2	A Student or Member clicks “Tham gia” button	System responses that participate in competition or event successfully [Exception 1, 2, 3]			
Step	Actor actions	System responses													
1	A Student or Member clicks “Xem chi tiết” button of competition or event	System shows detail of club with following information: <ul style="list-style-type: none"> Avatar Name Description “Tham gia” button 													
2	A Student or Member clicks “Tham gia” button	System responses that participate in competition or event successfully [Exception 1, 2, 3]													
Alternative Flows:	N/A														
Exceptions:	<table border="1"> <thead> <tr> <th>O.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>0.</td> <td>Causes</td> <td>System Responses</td> </tr> <tr> <td>1</td> <td>A Student or Member clicks “Tham gia” button but not thing responses</td> <td>System shows “Đã có lỗi trong quá trình. Vui lòng thử lại”</td> </tr> <tr> <td>2</td> <td>Lost of internet connection</td> <td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td> </tr> </tbody> </table>			O.	Causes	System Responses	0.	Causes	System Responses	1	A Student or Member clicks “Tham gia” button but not thing responses	System shows “Đã có lỗi trong quá trình. Vui lòng thử lại”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
O.	Causes	System Responses													
0.	Causes	System Responses													
1	A Student or Member clicks “Tham gia” button but not thing responses	System shows “Đã có lỗi trong quá trình. Vui lòng thử lại”													
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”													

	3	The maximum number of participants has been reached	System shows “Đã đủ số lượng người tham gia. Vui lòng quay lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only Student, Member can participate in a event Participation period must be within the period from register time to the end of register time 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 91. <Student> Participate in a club

2.2.80. <Student> Create a team

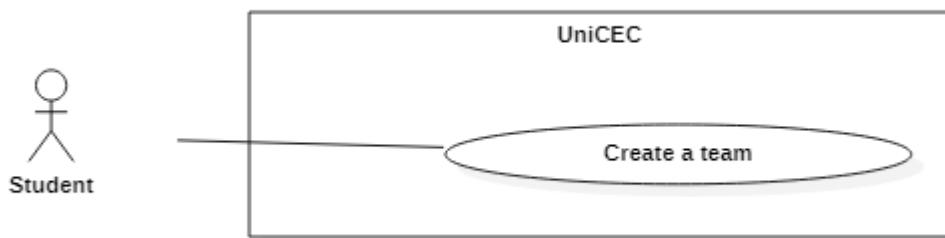


Figure 83. <Student> Create a team

ID and Name:	UC-80 Create a team		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Student	Secondary Actors:	N/A
Description:	Student want to create their team to participate in competition		
Trigger:	A Student clicks “Tạo đội” button		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has role is Student, Member in system 		
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that create new team successfully Fail: System show error message 		

	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Participant clicks “+” float button</td><td> System shows popup and allows participant input information: <ul style="list-style-type: none"> Name: text, 1-500 characters, required Description: text, 1-500 characters, required “Tạo đội” button [Exception 3, 4] </td></tr> <tr> <td>2</td><td>Participant clicks “Tạo đội” button on popup</td><td>System shows “Tạo đội thành công” [Exception 1, 2]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Participant clicks “+” float button	System shows popup and allows participant input information: <ul style="list-style-type: none"> Name: text, 1-500 characters, required Description: text, 1-500 characters, required “Tạo đội” button [Exception 3, 4]	2	Participant clicks “Tạo đội” button on popup	System shows “Tạo đội thành công” [Exception 1, 2]						
Step	Actor actions	System responses																
1	Participant clicks “+” float button	System shows popup and allows participant input information: <ul style="list-style-type: none"> Name: text, 1-500 characters, required Description: text, 1-500 characters, required “Tạo đội” button [Exception 3, 4]																
2	Participant clicks “Tạo đội” button on popup	System shows “Tạo đội thành công” [Exception 1, 2]																
Normal Flow:																		
Alternative Flows:	N/A																	
Exceptions:	<table border="1"> <thead> <tr> <th>O.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Participant clicks “Tạo đội” button on popup but not thing responses</td><td>System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> <tr> <td>3</td><td>Character’s Name is over 500</td><td>System shows “Tên quá dài. Vui lòng nhập lại từ 1-500 ký tự”</td></tr> <tr> <td>4</td><td>Character’s Description is over 500</td><td>System shows “Chi tiết quá dài. Vui lòng nhập lại từ 1-500 ký tự”</td></tr> </tbody> </table>			O.	Causes	System Responses	1	Participant clicks “Tạo đội” button on popup but not thing responses	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”	3	Character’s Name is over 500	System shows “Tên quá dài. Vui lòng nhập lại từ 1-500 ký tự”	4	Character’s Description is over 500	System shows “Chi tiết quá dài. Vui lòng nhập lại từ 1-500 ký tự”
O.	Causes	System Responses																
1	Participant clicks “Tạo đội” button on popup but not thing responses	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”																
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”																
3	Character’s Name is over 500	System shows “Tên quá dài. Vui lòng nhập lại từ 1-500 ký tự”																
4	Character’s Description is over 500	System shows “Chi tiết quá dài. Vui lòng nhập lại từ 1-500 ký tự”																
Priority:	Medium																	
Frequency of Use:	Regularly																	
Business Rules:	<ul style="list-style-type: none"> Student, Member must be participant to competition as participant to create a new team All field is required The participants who is create a team is a leader of team 																	
Other Information:	N/A																	
Assumptions:	Internet is available. System is working																	

Table 92. <Student> Create a team

2.2.81. <Student> Edit a team

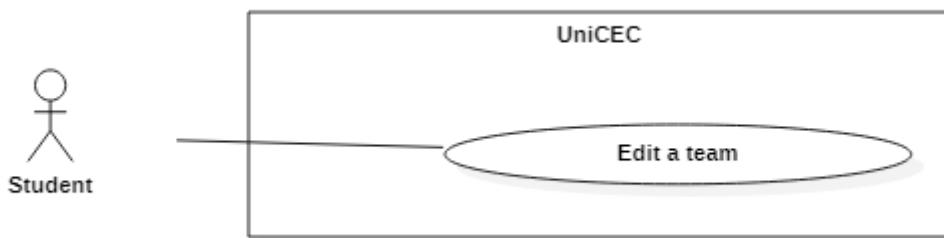


Figure 84. <Student> Edit a team

ID and Name:	UC-81 Edit a team											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Student	Secondary Actors:	N/A									
Description:	Student want to change name or description of team											
Trigger:	A Student clicks “Chỉnh sửa” float button on detail team screen											
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has role is Student, Member in system 											
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that edit a team successfully Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Participant clicks “Edit” float button</td> <td> System shows popup and allows participant input information: <ul style="list-style-type: none"> Name: text, 1-500 characters, required Description: text, 1-500 characters, required “Tạo đội” button [Exception 3, 4] </td> </tr> <tr> <td>2</td> <td>Participant clicks “Cập nhật” button on popup</td> <td> System shows “Chỉnh sửa thành công” [Exception 1, 2] </td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Participant clicks “Edit” float button	System shows popup and allows participant input information: <ul style="list-style-type: none"> Name: text, 1-500 characters, required Description: text, 1-500 characters, required “Tạo đội” button [Exception 3, 4]	2	Participant clicks “Cập nhật” button on popup	System shows “Chỉnh sửa thành công” [Exception 1, 2]
Step	Actor actions	System responses										
1	Participant clicks “Edit” float button	System shows popup and allows participant input information: <ul style="list-style-type: none"> Name: text, 1-500 characters, required Description: text, 1-500 characters, required “Tạo đội” button [Exception 3, 4]										
2	Participant clicks “Cập nhật” button on popup	System shows “Chỉnh sửa thành công” [Exception 1, 2]										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> </table>			o.	Causes	System Responses						
o.	Causes	System Responses										

	1	Participant clicks “Cập Nhật” button on popup but not thing responses	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
	3	Character's Name is over 500	System shows “Tên quá dài. Vui lòng nhập lại từ 1-500 ký tự”
	4	Character's Description is over 500	System shows “Chi tiết quá dài. Vui lòng nhập lại từ 1-500 ký tự”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> • Student must participate in competition as participant • Only Participant as a leader can edit a team • All field is required 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 93. <Student> Edit a team

2.2.82. <Student> Delete a team

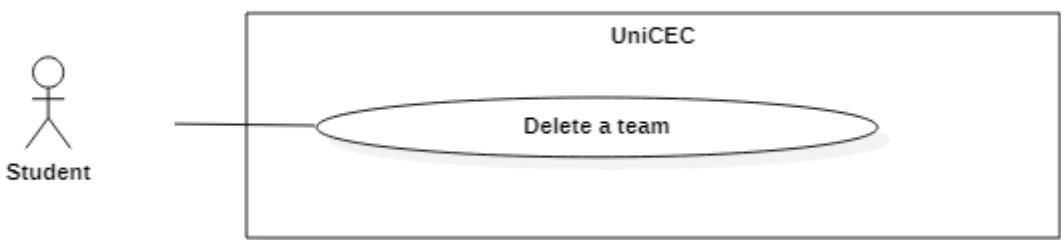


Figure 85. <Student> Delete a team

ID and Name:	UC-82 Delete a team		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Student	Secondary Actors:	N/A
Description:	Student want to delete own team in competition		
Trigger:	A Student clicks “Xóa Nhóm” button on detail team screen		

Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Student in system 											
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that delete team in competition successfully Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>On screen view detail team, Student click “Xóa Nhóm”</td><td>System shows “Xóa nhóm thành công” [Exception 1, 2]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	On screen view detail team, Student click “Xóa Nhóm”	System shows “Xóa nhóm thành công” [Exception 1, 2]			
Step	Actor actions	System responses										
1	On screen view detail team, Student click “Xóa Nhóm”	System shows “Xóa nhóm thành công” [Exception 1, 2]										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Student clicks “Xóa Nhóm” button on popup but not thing responses</td><td>System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			o.	Causes	System Responses	1	Student clicks “Xóa Nhóm” button on popup but not thing responses	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses										
1	Student clicks “Xóa Nhóm” button on popup but not thing responses	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> Student must participate in competition as participant Only Participant as a leader can delete their team 											
Other Information:	N/A											
Assumptions:	Internet is available. System is working											

Table 94. <Student> Delete a team

2.2.83. <Student> Search a team

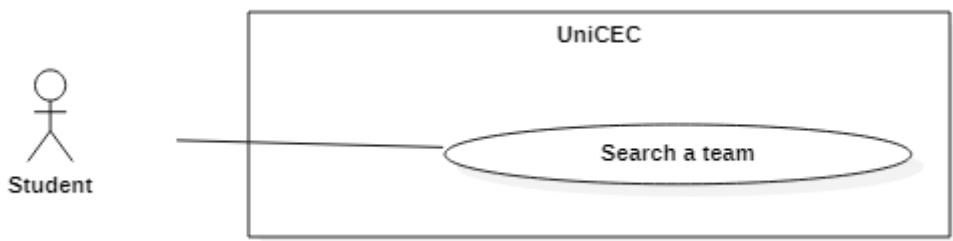


Figure 86. <Student> Search a team

ID and Name:	UC-83 Search a team											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Student	Secondary Actors:	N/A									
Description:	Student want to search team in competition base on Name, Status											
Trigger:	A Student clicks "search" icon											
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Student in system 											
Post-conditions:	<ul style="list-style-type: none"> Success: System show list of team of Competition Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Student input Name or Status</td> <td>System finds in database</td> </tr> <tr> <td>2</td> <td>Student click "search" icon</td> <td> System show table that include team in competition with following information: <ul style="list-style-type: none"> Name Number ParticipantInTeam Status ">" icon arrow detail team [Exception 1, 2] </td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Student input Name or Status	System finds in database	2	Student click "search" icon	System show table that include team in competition with following information: <ul style="list-style-type: none"> Name Number ParticipantInTeam Status ">" icon arrow detail team [Exception 1, 2]
Step	Actor actions	System responses										
1	Student input Name or Status	System finds in database										
2	Student click "search" icon	System show table that include team in competition with following information: <ul style="list-style-type: none"> Name Number ParticipantInTeam Status ">" icon arrow detail team [Exception 1, 2]										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>b.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Student clicks "search" icon but no data team</td> <td>System show "Danh sách trống"</td> </tr> <tr> <td>2</td> <td>Lost of internet connection</td> <td>System shows "Mất kết nối internet. Vui lòng thử lại sau"</td> </tr> </tbody> </table>			b.	Causes	System Responses	1	Student clicks "search" icon but no data team	System show "Danh sách trống"	2	Lost of internet connection	System shows "Mất kết nối internet. Vui lòng thử lại sau"
b.	Causes	System Responses										
1	Student clicks "search" icon but no data team	System show "Danh sách trống"										
2	Lost of internet connection	System shows "Mất kết nối internet. Vui lòng thử lại sau"										

Priority:	Medium
Frequency of Use:	Regularly
Business Rules:	<ul style="list-style-type: none"> • Student must participate in competition as participant
Other Information:	N/A
Assumptions:	Internet is available. System is working

Table 95. <Student> Search a team

2.2.84. <Student> Participate in a team

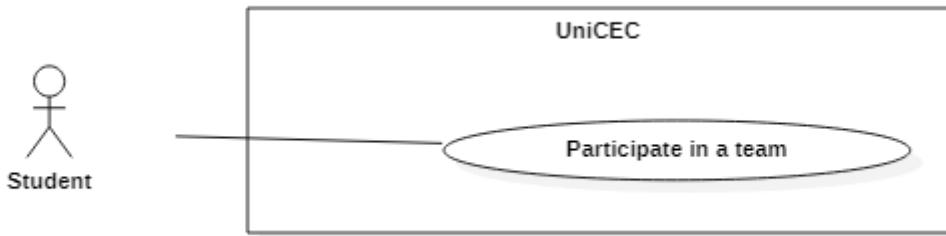


Figure 87. <Student> Participate in a team

ID and Name:	UC-84 Participate in a team		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Student	Secondary Actors:	N/A
Description:	Student want to participate in team in competition		
Trigger:	A Student clicks "Tham gia" button on popup		
Preconditions:	<ul style="list-style-type: none"> • The account has active status • The account has a role is Student in system 		
Post-conditions:	<ul style="list-style-type: none"> • Success: System show notification that participate in team successfully • Fail: System show error message 		

Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Student clicks to “Tham gia nhóm” on view team screen</td><td>System shows popup and allows participant input information: <ul style="list-style-type: none"> • InvitedCode: text, 1-20 characters, required • “Tham gia” button </td></tr> <tr> <td>2</td><td>Student clicks to “Tham gia” on popup</td><td>System show “Tham gia nhóm thành công” [Exception 1,2,3,4]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Student clicks to “Tham gia nhóm” on view team screen	System shows popup and allows participant input information: <ul style="list-style-type: none"> • InvitedCode: text, 1-20 characters, required • “Tham gia” button 	2	Student clicks to “Tham gia” on popup	System show “Tham gia nhóm thành công” [Exception 1,2,3,4]					
Step	Actor actions	System responses															
1	Student clicks to “Tham gia nhóm” on view team screen	System shows popup and allows participant input information: <ul style="list-style-type: none"> • InvitedCode: text, 1-20 characters, required • “Tham gia” button 															
2	Student clicks to “Tham gia” on popup	System show “Tham gia nhóm thành công” [Exception 1,2,3,4]															
Alternative Flows:																	
N/A																	
Exceptions:																	
	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Student click “Tham gia” button but not have team match invited code</td><td>System shows “Mã mời sai, vui lòng nhập lại mã”</td></tr> <tr> <td>2</td><td>Student click “Tham gia” button but Student already has team</td><td>System shows “Bạn đã có đội rồi, không thể tham gia vào đội khác”</td></tr> <tr> <td>3</td><td>Student click “Tham gia” button but nothing responses</td><td>System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”</td></tr> <tr> <td>4</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			o.	Causes	System Responses	1	Student click “Tham gia” button but not have team match invited code	System shows “Mã mời sai, vui lòng nhập lại mã”	2	Student click “Tham gia” button but Student already has team	System shows “Bạn đã có đội rồi, không thể tham gia vào đội khác”	3	Student click “Tham gia” button but nothing responses	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”	4	Lost of internet connection
o.	Causes	System Responses															
1	Student click “Tham gia” button but not have team match invited code	System shows “Mã mời sai, vui lòng nhập lại mã”															
2	Student click “Tham gia” button but Student already has team	System shows “Bạn đã có đội rồi, không thể tham gia vào đội khác”															
3	Student click “Tham gia” button but nothing responses	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”															
4	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”															
Priority:																	
Medium																	
Frequency of Use:																	
Regularly																	
Business Rules:	<ul style="list-style-type: none"> • Student must participate in competition as participant 																
Other Information:	N/A																
Assumptions:	Internet is available. System is working																

Table 96. <Student> Participate in a team

2.2.85. <Student> View a team

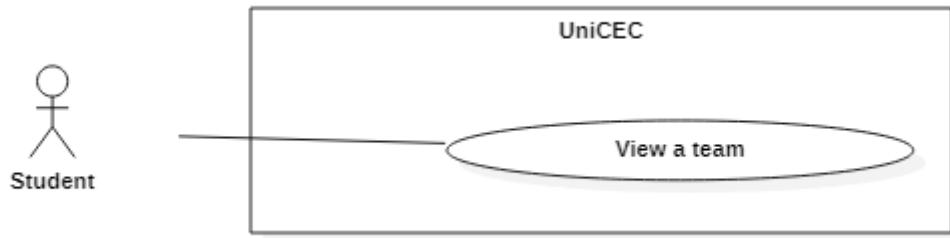


Figure 88. <Student> View a team

ID and Name:	UC-85 View a team								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	Student	Secondary Actors:	N/A						
Description:	Student want to view detail of team in competition								
Trigger:	A Student clicks ">" icon to view detail								
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Student in system 								
Post-conditions:	<ul style="list-style-type: none"> Success: System shows data table of detail of a team Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>On screen view list team, student click to ">" icon</td> <td> System show detail information of participant is in team with following information: <ul style="list-style-type: none"> Avatar: image Fullname: text StudentCode: text [Exception 1, 2] </td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	On screen view list team, student click to ">" icon	System show detail information of participant is in team with following information: <ul style="list-style-type: none"> Avatar: image Fullname: text StudentCode: text [Exception 1, 2]
Step	Actor actions	System responses							
1	On screen view list team, student click to ">" icon	System show detail information of participant is in team with following information: <ul style="list-style-type: none"> Avatar: image Fullname: text StudentCode: text [Exception 1, 2]							
Alternative Flows:	N/A								
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>student click ">" icon but no data participant</td> <td>System shows "Danh sách thành viên trống"</td> </tr> </tbody> </table>			o.	Causes	System Responses	1	student click ">" icon but no data participant	System shows "Danh sách thành viên trống"
o.	Causes	System Responses							
1	student click ">" icon but no data participant	System shows "Danh sách thành viên trống"							

	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:		<ul style="list-style-type: none"> • All role in system can view detail a team 	
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 97. <Student> View a team

2.2.86. <Student> View a participant

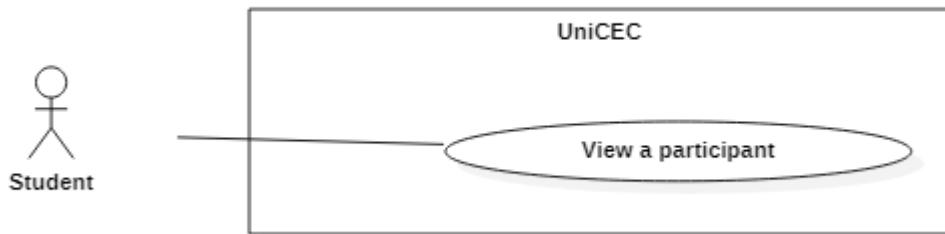


Figure 89. <Student> View a participant

ID and Name:	UC-86 View a participant		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Student	Secondary Actors:	N/A
Description:	Student want to view a participant of a team in competition		
Trigger:	A Student clicks dropdown button and clicks “Xem thông tin” on popup		
Preconditions:	<ul style="list-style-type: none"> • The account has active status • The account has role is Student in system 		
Post-conditions:	<ul style="list-style-type: none"> • Success: System shows information of participant in team • Fail: System show error message 		

Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>On screen view detail team, Student clicks dropdown button and clicks “Xem thông tin” button</td><td> System show detail information of participant is in team with following information: <ul style="list-style-type: none"> • Avatar: image • Fullname: text • StudentCode: text • DOB: datetime • Major: text [Exception 1, 2] </td></tr> </tbody> </table>			Step	Actor actions	System responses	1	On screen view detail team, Student clicks dropdown button and clicks “Xem thông tin” button	System show detail information of participant is in team with following information: <ul style="list-style-type: none"> • Avatar: image • Fullname: text • StudentCode: text • DOB: datetime • Major: text [Exception 1, 2]			
Step	Actor actions	System responses										
1	On screen view detail team, Student clicks dropdown button and clicks “Xem thông tin” button	System show detail information of participant is in team with following information: <ul style="list-style-type: none"> • Avatar: image • Fullname: text • StudentCode: text • DOB: datetime • Major: text [Exception 1, 2]										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Student click “Xem thông tin” button but nothing responses</td><td>System show “Đã có lỗi xảy ra. Vui lòng thử lại sau”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			o.	Causes	System Responses	1	Student click “Xem thông tin” button but nothing responses	System show “Đã có lỗi xảy ra. Vui lòng thử lại sau”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses										
1	Student click “Xem thông tin” button but nothing responses	System show “Đã có lỗi xảy ra. Vui lòng thử lại sau”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> • All role in system can view participant in team 											
Other Information:	N/A											
Assumptions:	Internet is available. System is working											

Table 98. <Student> View a participant

2.2.87. <Student> Delete a participant

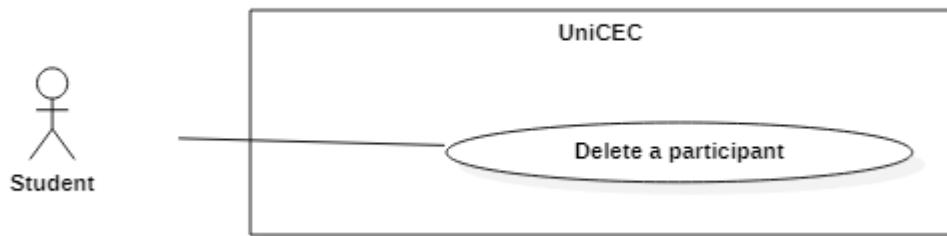


Figure 90. <Student> Delete a participant

ID and Name:	UC-87 Delete a participant											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Student	Secondary Actors:	N/A									
Description:	Student want to delete a participant of a team in competition											
Trigger:	A Student clicks dropdown button and clicks “Xóa” on popup											
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has role is Student in system 											
Post-conditions:	<ul style="list-style-type: none"> Success: System shows information of participant in team Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>On screen view detail team, Student clicks dropdown button and clicks “Xóa” button</td><td>System shows “Bạn có muốn xóa thành viên khỏi nhóm không?” with 2 options: <ul style="list-style-type: none"> “Có” button “Không” button [Exception 1, 2]</td></tr> <tr> <td>2</td><td>Student clicks “Có” button</td><td>System shows “Xóa thành công” [Alternative 1] [Exception 1, 2]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	On screen view detail team, Student clicks dropdown button and clicks “Xóa” button	System shows “Bạn có muốn xóa thành viên khỏi nhóm không?” with 2 options: <ul style="list-style-type: none"> “Có” button “Không” button [Exception 1, 2]	2	Student clicks “Có” button	System shows “Xóa thành công” [Alternative 1] [Exception 1, 2]
Step	Actor actions	System responses										
1	On screen view detail team, Student clicks dropdown button and clicks “Xóa” button	System shows “Bạn có muốn xóa thành viên khỏi nhóm không?” with 2 options: <ul style="list-style-type: none"> “Có” button “Không” button [Exception 1, 2]										
2	Student clicks “Có” button	System shows “Xóa thành công” [Alternative 1] [Exception 1, 2]										
Alternative Flows:	<table border="1"> <thead> <tr> <th>No</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>2</td><td>Student clicks “Không” button</td><td>System shows “Hủy xóa thành viên”</td></tr> </tbody> </table>			No	Actor actions	System responses	2	Student clicks “Không” button	System shows “Hủy xóa thành viên”			
No	Actor actions	System responses										
2	Student clicks “Không” button	System shows “Hủy xóa thành viên”										
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Student click “Xem thông tin” button but nothing responses</td><td>System show “Đã có lỗi xảy ra. Vui lòng thử lại sau”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			o.	Causes	System Responses	1	Student click “Xem thông tin” button but nothing responses	System show “Đã có lỗi xảy ra. Vui lòng thử lại sau”	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses										
1	Student click “Xem thông tin” button but nothing responses	System show “Đã có lỗi xảy ra. Vui lòng thử lại sau”										
2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											
Frequency of Use:	Regularly											

Business Rules:	<ul style="list-style-type: none"> All role in system can view participant in team Only leader of team can delete a participant
Other Information:	N/A
Assumptions:	Internet is available. System is working

Table 99. <Student> Delete a participant

2.2.88. <Student> Sign out a team

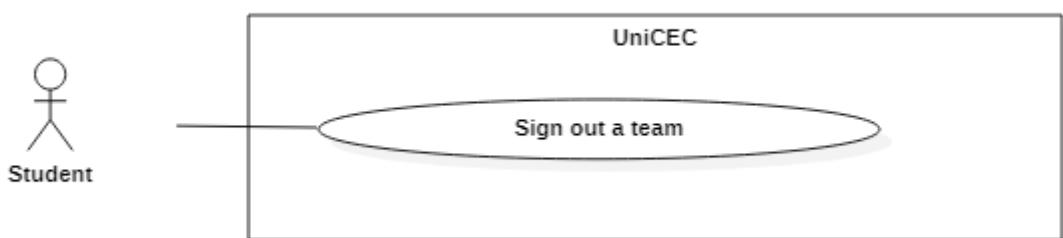


Figure 91. <Student> Sign out a team

ID and Name:	UC-88 Sign out a team								
Created By:	HuyVL	Date Created:	29/06/2022						
Primary Actor:	Student	Secondary Actors:	N/A						
Description:	Student want to out their team in competition								
Trigger:	Student clicks “Thoát khỏi nhóm” button on screen detail a team								
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has role is Student in system 								
Post-conditions:	<ul style="list-style-type: none"> Success: System show notification that out team successfully Fail: System show error message 								
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Student click “Thoát khỏi nhóm” button</td> <td>System show “Thoát khỏi nhóm thành công” [Exception 1.2]</td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Student click “Thoát khỏi nhóm” button	System show “Thoát khỏi nhóm thành công” [Exception 1.2]
Step	Actor actions	System responses							
1	Student click “Thoát khỏi nhóm” button	System show “Thoát khỏi nhóm thành công” [Exception 1.2]							

Alternative Flows:	N/A		
Exceptions:			
	O.	Causes	System Responses
	1	Student click “Thoát khỏi nhóm” button but nothing responses	System shows “Đã có lỗi xảy ra. Vui lòng thử lại sau”
	2	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> • Student must participate in competition as participant • Participant must have team 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 100. <Student> Sign out a team

2.2.89. <Student> View a round

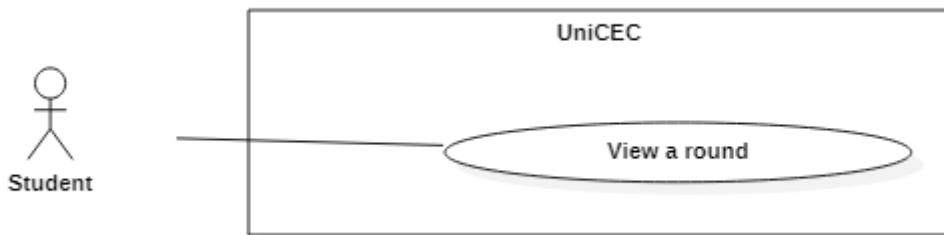


Figure 92. <Student> View a round

ID and Name:	UC-89 View a round		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Student	Secondary Actors:	N/A
Description:	Student want to view detail of round in competition		
Trigger:	A Student clicks “>” icon to view detail		
Preconditions:	<ul style="list-style-type: none"> • The account has active status • The account has a role is Student in system 		

Post-conditions:	<ul style="list-style-type: none"> Success: System shows data table of detail of a round Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>On screen view list round, student click to ">" icon</td><td> <p>System show detail information of participant is in round with following information:</p> <ul style="list-style-type: none"> Avatar: image Title: text Description: text Start Date: datetime End Date: datetime SeedPoints Status <p>[Exception 1, 2]</p> </td></tr> </tbody> </table>			Step	Actor actions	System responses	1	On screen view list round, student click to ">" icon	<p>System show detail information of participant is in round with following information:</p> <ul style="list-style-type: none"> Avatar: image Title: text Description: text Start Date: datetime End Date: datetime SeedPoints Status <p>[Exception 1, 2]</p>			
Step	Actor actions	System responses										
1	On screen view list round, student click to ">" icon	<p>System show detail information of participant is in round with following information:</p> <ul style="list-style-type: none"> Avatar: image Title: text Description: text Start Date: datetime End Date: datetime SeedPoints Status <p>[Exception 1, 2]</p>										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>student click ">" icon but no data participant</td><td>System shows "Danh sách thành viên trống"</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows "Mất kết nối internet. Vui lòng thử lại sau"</td></tr> </tbody> </table>			o.	Causes	System Responses	1	student click ">" icon but no data participant	System shows "Danh sách thành viên trống"	2	Lost of internet connection	System shows "Mất kết nối internet. Vui lòng thử lại sau"
o.	Causes	System Responses										
1	student click ">" icon but no data participant	System shows "Danh sách thành viên trống"										
2	Lost of internet connection	System shows "Mất kết nối internet. Vui lòng thử lại sau"										
Priority:	Medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> All role in system can view detail a round 											
Other Information:	N/A											
Assumptions:	Internet is available. System is working											

Table 101. <Student> View a round

2.2.90. <Student> View a result

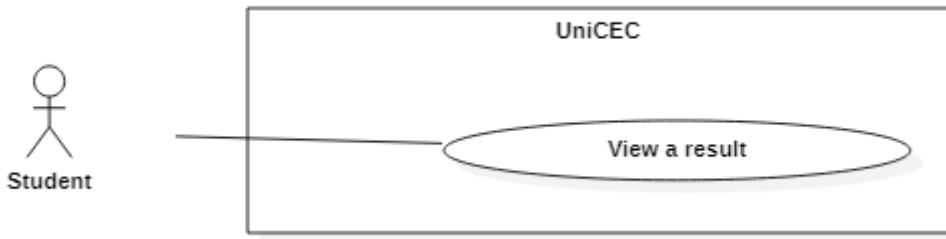


Figure 93. <Student> View a result

ID and Name:	UC-90 View a result											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Student	Secondary Actors:	N/A									
Description:	Student want to view detail of result in competition											
Trigger:	A Student clicks ">" icon to view detail											
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is Student in system 											
Post-conditions:	<ul style="list-style-type: none"> Success: System shows data table of detail of a result Fail: System show error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>On screen view list result, student click to ">" icon</td> <td> System show detail information of participant is in result with following information: <ul style="list-style-type: none"> Team name Rank Point SeedPoints Image [Exception 1, 2] </td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	On screen view list result, student click to ">" icon	System show detail information of participant is in result with following information: <ul style="list-style-type: none"> Team name Rank Point SeedPoints Image [Exception 1, 2]			
Step	Actor actions	System responses										
1	On screen view list result, student click to ">" icon	System show detail information of participant is in result with following information: <ul style="list-style-type: none"> Team name Rank Point SeedPoints Image [Exception 1, 2]										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>student click ">" icon but no data participant</td> <td>System shows "Danh sách thành viên trống"</td> </tr> <tr> <td>2</td> <td>Lost of internet connection</td> <td>System shows "Mất kết nối internet. Vui lòng thử lại sau"</td> </tr> </tbody> </table>			o.	Causes	System Responses	1	student click ">" icon but no data participant	System shows "Danh sách thành viên trống"	2	Lost of internet connection	System shows "Mất kết nối internet. Vui lòng thử lại sau"
o.	Causes	System Responses										
1	student click ">" icon but no data participant	System shows "Danh sách thành viên trống"										
2	Lost of internet connection	System shows "Mất kết nối internet. Vui lòng thử lại sau"										

Priority:	Medium
Frequency of Use:	Regularly
Business Rules:	<ul style="list-style-type: none"> • All role in system can view detail a result
Other Information:	N/A
Assumptions:	Internet is available. System is working

Table 102. <Student> View a result

2.2.91. <Student> View seedpoints

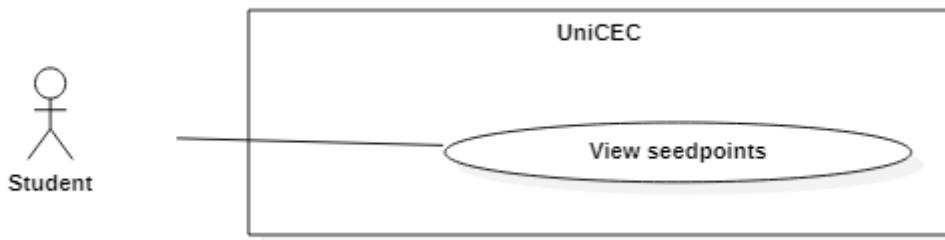


Figure 94. <Student> View seedpoints

ID and Name:	UC-91 View a team		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Student	Secondary Actors:	N/A
Description:	Student want to view total of seedpoints		
Trigger:	A Student clicks “Thông tin cá nhân” total		
Preconditions:	<ul style="list-style-type: none"> • The account has active status • The account has a role is Student in system 		
Post-conditions:	<ul style="list-style-type: none"> • Success: System shows total of seedpoints • Fail: System show error message 		

Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Student click to “Thông tin cá nhân” button</td><td>System show total of seedpoints and user name [Exception 1]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Student click to “Thông tin cá nhân” button	System show total of seedpoints and user name [Exception 1]
Step	Actor actions	System responses							
1	Student click to “Thông tin cá nhân” button	System show total of seedpoints and user name [Exception 1]							
N/A									
Exceptions:	<table border="1"> <thead> <tr> <th>o.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			o.	Causes	System Responses	1	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
o.	Causes	System Responses							
1	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”							
Priority:	Medium								
Frequency of Use:	Regularly								
Business Rules:	<ul style="list-style-type: none"> Each user has each wallet to view point Only user can view point of them Point receive from participate in competition, event, activity,... 								
Other Information:	N/A								
Assumptions:	Internet is available. System is working								

Table 103. <Student> View seedpoints

2.2.92. <Club Member> View an assigned activity

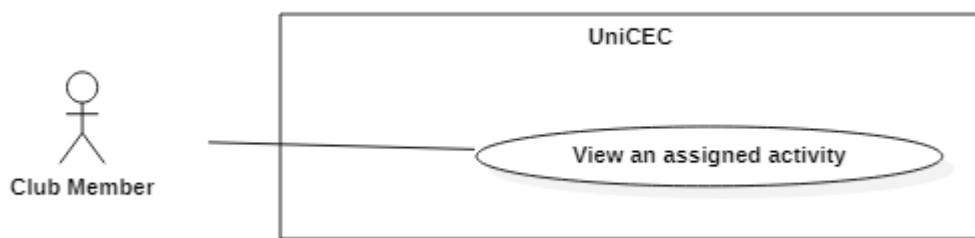


Figure 95. <Competition Manager> View an assigned activity

ID and Name:	UC-92 View an assigned activity											
Created By:	HuyVL	Date Created:	29/06/2022									
Primary Actor:	Club Member	Secondary Actors:	N/A									
Description:	Club Member can view detail of assigned activity											
Trigger:	A Club Member selects an assigned activity											
Preconditions:	<ul style="list-style-type: none"> ● The account has active status ● The account has a role is Club Member in system 											
Post-conditions:	<ul style="list-style-type: none"> ● Success: System shows detail of assgined activity ● Fail: System shows error message 											
Normal Flow:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d9e1f2;"> <th style="padding: 2px;">Step</th> <th style="padding: 2px;">Actor actions</th> <th style="padding: 2px;">System responses</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">1</td> <td style="padding: 2px;">Club Member selects assigned competition</td> <td style="padding: 2px;">System responses list of activity</td> </tr> <tr> <td style="text-align: center; padding: 2px;">1</td> <td style="padding: 2px;">Club Member selects activity</td> <td style="padding: 2px;">System responses detail activity with following information: <ul style="list-style-type: none"> ● ID ● Point ● Title ● Creator ● Status ● Content ● Assigner ● Start time ● End time ● Priority [Exception 1] </td> </tr> </tbody> </table>			Step	Actor actions	System responses	1	Club Member selects assigned competition	System responses list of activity	1	Club Member selects activity	System responses detail activity with following information: <ul style="list-style-type: none"> ● ID ● Point ● Title ● Creator ● Status ● Content ● Assigner ● Start time ● End time ● Priority [Exception 1]
Step	Actor actions	System responses										
1	Club Member selects assigned competition	System responses list of activity										
1	Club Member selects activity	System responses detail activity with following information: <ul style="list-style-type: none"> ● ID ● Point ● Title ● Creator ● Status ● Content ● Assigner ● Start time ● End time ● Priority [Exception 1]										
Alternative Flows:	N/A											

Exceptions:			
	No.	Causes	System Responses
	1	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> Only Club Member can view list of their assigned activity 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 104. <Competition Manager> View an assigned activity

2.2.93. <Club Member> Search an assigned activity

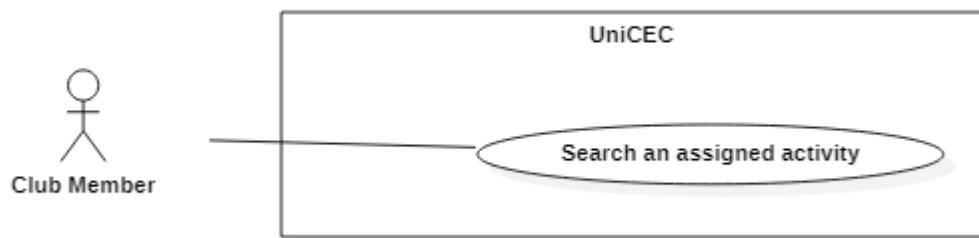


Figure 96. <Club Member> Search an assigned activity

ID and Name:	UC-93 Search an assigned activity		
Created By:	HuyVL	Date Created:	29/06/2022

Primary Actor:	Club Member	Secondary Actors:	N/A									
Description:	Club Member can Search detail of assigned activity											
Trigger:	A Club Member input name of activity											
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has role is Club Member in system 											
Post-conditions:	<ul style="list-style-type: none"> Success: System shows detail of assigned activity Fail: System shows error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Member input a name</td><td>System responses list of activity based on name</td></tr> <tr> <td>2</td><td>Club Member selects activity</td><td> <p>System responses detail activity with following information:</p> <ul style="list-style-type: none"> ID Point Title Creator Status Content Assigner Start time End time Priority <p>[Exception 1]</p> </td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Club Member input a name	System responses list of activity based on name	2	Club Member selects activity	<p>System responses detail activity with following information:</p> <ul style="list-style-type: none"> ID Point Title Creator Status Content Assigner Start time End time Priority <p>[Exception 1]</p>
Step	Actor actions	System responses										
1	Club Member input a name	System responses list of activity based on name										
2	Club Member selects activity	<p>System responses detail activity with following information:</p> <ul style="list-style-type: none"> ID Point Title Creator Status Content Assigner Start time End time Priority <p>[Exception 1]</p>										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”			
No.	Causes	System Responses										
1	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”										
Priority:	Medium											

Frequency of Use:	Regularly
Business Rules:	<ul style="list-style-type: none"> Only Club Member can search list of their assigned activity
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 105. <Club Member> Search an assigned activity

2.2.94. <Club Member> Update an assigned activity progress

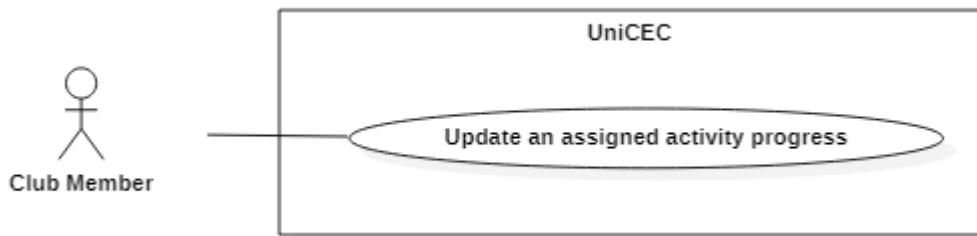


Figure 97. <Club Member> Update an assigned activity progress

ID and Name:	UC-94 Update an assigned activity progress		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Member	Secondary Actors:	Club Manager
Description:	Club Member wants to update an assigned activity in competition or event to another status		
Trigger:	A Club Member clicks on activity status dropdown		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has role is Club Member in system 		

Post-conditions:	<ul style="list-style-type: none"> Success: System show notification update assigned activity successfully Fail: System show error message 														
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Member clicks on activity</td><td> <p>System show detail of activity:</p> <ul style="list-style-type: none"> • Name • Description • Image • Start Time • End Time • Priority • Status </td></tr> <tr> <td>2</td><td>Club Member selects status</td><td>System get and save status</td></tr> <tr> <td>3</td><td>Club Member clicks “Cập nhật” button</td><td> <p>System responses notification “Cập nhật hoạt động thành công”</p> <p>[Exception 1, 2]</p> </td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Club Member clicks on activity	<p>System show detail of activity:</p> <ul style="list-style-type: none"> • Name • Description • Image • Start Time • End Time • Priority • Status 	2	Club Member selects status	System get and save status	3	Club Member clicks “Cập nhật” button	<p>System responses notification “Cập nhật hoạt động thành công”</p> <p>[Exception 1, 2]</p>
Step	Actor actions	System responses													
1	Club Member clicks on activity	<p>System show detail of activity:</p> <ul style="list-style-type: none"> • Name • Description • Image • Start Time • End Time • Priority • Status 													
2	Club Member selects status	System get and save status													
3	Club Member clicks “Cập nhật” button	<p>System responses notification “Cập nhật hoạt động thành công”</p> <p>[Exception 1, 2]</p>													
Alternative Flows:	N/A														
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Club Member clicks “Cập nhật” button but nothing response</td><td>System shows “Cập nhật thất bại. Vui lòng thử lại sau.”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Tạo mới thất bại. Mất kết nối internet.”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	Club Member clicks “Cập nhật” button but nothing response	System shows “Cập nhật thất bại. Vui lòng thử lại sau.”	2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”			
No.	Causes	System Responses													
1	Club Member clicks “Cập nhật” button but nothing response	System shows “Cập nhật thất bại. Vui lòng thử lại sau.”													
2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”													
Priority:	medium														
Frequency of Use:	Regularly														

Business Rules:	<ul style="list-style-type: none"> Only Club Member can edit an assigned activity on mobile Club Member can edit status: Open, On going, Pending, Finished Club Member can not edit status: Complete, Cancel
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 106. <Club Member> Update an assigned activity progress

2.2.95. <Club Member> View an assigned competition

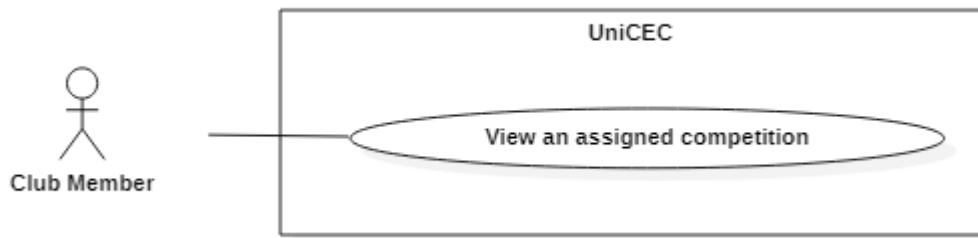


Figure 98. <Club Member> View an assigned competition

ID and Name:	UC-95 View an assigned competition		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Member	Secondary Actors:	N/A
Description:	Club Member wants to view an assigned competition		
Trigger:	A Club Member clicks “Hoạt động” on button bar		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has role is Club Member in system 		

Post-conditions:	<ul style="list-style-type: none"> Success: System shows assigned competition successfully Fail: System shows error message 											
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>A Club Member clicks “Hoạt động” on button bar</td><td> <p>System shows assigned competition:</p> <ul style="list-style-type: none"> • ID • Name • Create Time • Status <p>[Exception 1, 2]</p> </td></tr> </tbody> </table>			Step	Actor actions	System responses	1	A Club Member clicks “Hoạt động” on button bar	<p>System shows assigned competition:</p> <ul style="list-style-type: none"> • ID • Name • Create Time • Status <p>[Exception 1, 2]</p>			
Step	Actor actions	System responses										
1	A Club Member clicks “Hoạt động” on button bar	<p>System shows assigned competition:</p> <ul style="list-style-type: none"> • ID • Name • Create Time • Status <p>[Exception 1, 2]</p>										
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>A Club Member clicks “Hoạt động” on button bar</td><td>System shows “Đã có lỗi xảy ra. Vui lòng thử lại”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Tạo mới thất bại. Mất kết nối internet.”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	A Club Member clicks “Hoạt động” on button bar	System shows “Đã có lỗi xảy ra. Vui lòng thử lại”	2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”
No.	Causes	System Responses										
1	A Club Member clicks “Hoạt động” on button bar	System shows “Đã có lỗi xảy ra. Vui lòng thử lại”										
2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”										
Priority:	medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> Only Club Member can view an assigned competition on mobile 											
Other Information:	N/A											
Assumptions:	<p>Internet is available.</p> <p>System is working</p>											

Table 107. <Club Member> View an assigned competition

2.2.96. <Club Member> View an assigned event

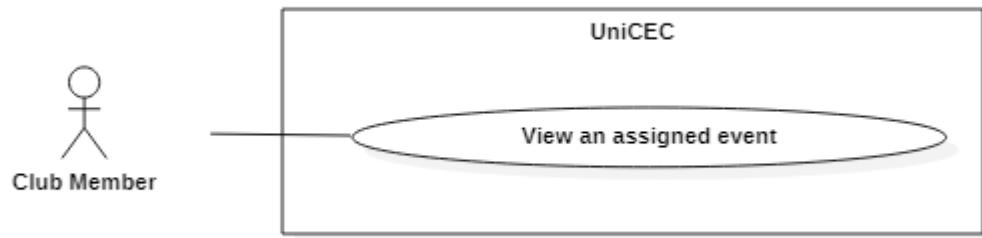


Figure 99. <Club Member> View an assigned event

ID and Name:	UC-96 View an assigned competition		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Club Member	Secondary Actors:	N/A
Description:	Club Member wants to view an assigned competition		
Trigger:	A Club Member clicks “Hoạt động” on button bar		
Preconditions:	<ul style="list-style-type: none"> • The account has active status • The account has role is Club Member in system 		
Post-conditions:	<ul style="list-style-type: none"> • Success: System shows assigned event successfully • Fail: System shows error message 		

Normal Flow:	Step	Actor actions	System responses									
	1	A Club Member clicks “Hoạt động” on button bar	<p>System shows assigned competition:</p> <ul style="list-style-type: none"> • ID • Name • Create Time • Status <p>[Exception 1, 2]</p>									
Alternative Flows:	N/A											
Exceptions:	<table border="1"> <thead> <tr> <th>No.</th> <th>Causes</th> <th>System Responses</th> </tr> </thead> <tbody> <tr> <td>1</td><td>A Club Member clicks “Hoạt động” on button bar</td><td>System shows “Đã có lỗi xảy ra. Vui lòng thử lại”</td></tr> <tr> <td>2</td><td>Lost of internet connection</td><td>System shows “Tạo mới thất bại. Mất kết nối internet.”</td></tr> </tbody> </table>			No.	Causes	System Responses	1	A Club Member clicks “Hoạt động” on button bar	System shows “Đã có lỗi xảy ra. Vui lòng thử lại”	2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”
No.	Causes	System Responses										
1	A Club Member clicks “Hoạt động” on button bar	System shows “Đã có lỗi xảy ra. Vui lòng thử lại”										
2	Lost of internet connection	System shows “Tạo mới thất bại. Mất kết nối internet.”										
Priority:	medium											
Frequency of Use:	Regularly											
Business Rules:	<ul style="list-style-type: none"> • Only Club Member can view an assigned event on mobile 											
Other Information:	N/A											
Assumptions:	<p>Internet is available.</p> <p>System is working</p>											

Table 108. <Club Member> View an assigned event

2.2.97. <Member> Login with google

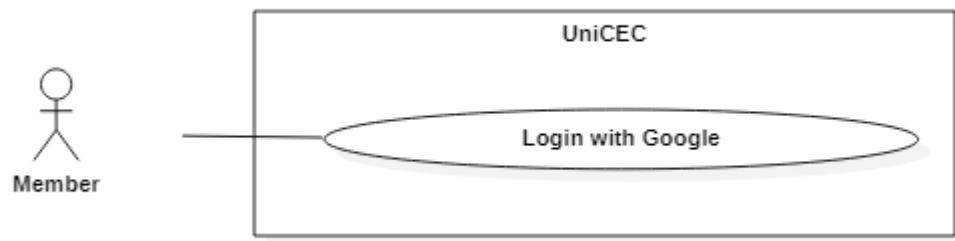


Figure 100. <Member> Login with Google

ID and Name	UC-97 Login with google		
Created By	HuyVL	Date Created:	29/06/2022
Primary Actor	Member	Secondary Actors:	N/A
Description	Members who have role in the system like System Admin, University Admin, Club Manager, etc have to be authenticated by the system. They can log in to the system by using their actor account.		
Trigger	Actor sends command to login into the system.		
Preconditions	The account has active status		
Post-conditions	Success: System validated the account valid and redirect actor to the page and use specific features corresponding with their role. Fail: N/A		

Normal Flow	Step	Actor actions	System responses
	1	Actor request to login.	System requires information from Google
	2	Actor sends login command.	<ul style="list-style-type: none"> System will JWT decode and encode account then check account if account valid. <p>[Alternative 1,2]</p> <ul style="list-style-type: none"> Then gives actor access to the system and actor use specific features depend on actor role.
Alternative Flows:	Alternative 1:		
		Causes	System Responses
	1	Google account doesn't match with account in the system.	System informs: "Đăng nhập thất bại"
	2	Account is disabled	System query that the account is disabled and informs "Tài khoản của bạn đã bị vô hiệu hóa"
Exceptions:	N/A		
Priority:	Medium		
Frequency of Use:	Regularly		

Business Rules:	<ul style="list-style-type: none"> The account must have status “Active” Actor input username and password. System will validate the actor's login account and give access to the system with specific features depend on actor role. The system uses JWT to encode and decode the account. The system has roles: <ul style="list-style-type: none"> System Admin Club Manager Admin Member/ Student University Admin
Other Information:	N/A
Assumptions:	<p>Internet is available.</p> <p>System is working</p>

Table 109. <Member> Login with Google

2.2.98. <Member> Logout

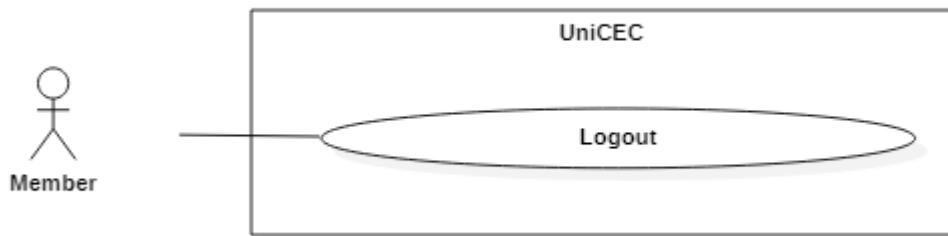


Figure 101. <Member> Log out

ID and Name:	UC-98 Logout		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor	Guest	Secondary Actors:	N/A

Description	Actor want to secure their account when they stop using account role service, logout help protect the information in their account from other people, so this feature provides the actor with the ability to log out of the system.								
Trigger	Actor send command to logout the system								
Preconditions	The actor has logged into the system								
Post-conditions	System informs message and direct actor to Login page.								
Normal Flow	<table border="1"> <thead> <tr> <th>Step</th><th>Actor actions</th><th>System responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actor send logout command</td><td>System removes the current login session, logs actor out of the system and redirect actor to login page. [Alternative 1,2]</td></tr> </tbody> </table>			Step	Actor actions	System responses	1	Actor send logout command	System removes the current login session, logs actor out of the system and redirect actor to login page. [Alternative 1,2]
Step	Actor actions	System responses							
1	Actor send logout command	System removes the current login session, logs actor out of the system and redirect actor to login page. [Alternative 1,2]							
Alternative Flows:	<p>Alternative 1:</p> <table border="1"> <thead> <tr> <th></th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actor not using any service in the system about 60 minutes</td><td>System removes the current login session, logs actor out of the system and redirect actor to login page.</td></tr> </tbody> </table>				Causes	System Responses	1	Actor not using any service in the system about 60 minutes	System removes the current login session, logs actor out of the system and redirect actor to login page.
	Causes	System Responses							
1	Actor not using any service in the system about 60 minutes	System removes the current login session, logs actor out of the system and redirect actor to login page.							
Exceptions:	N/A								
Priority:	Medium								
Frequency of Use:	Regularly								
Business Rules:	<ul style="list-style-type: none"> When actor requests to log out of the system, the system will remove the current login session of the actor and then log the actor out of the system then redirect actor to login page. 								

	<ul style="list-style-type: none"> If the actor's current login session has expired, the system will automatically log the actor out of the system then redirect actor to Home page.
Other Information:	N/A
Assumptions:	Internet is available. System is working.

Table 110. <Member> Log out

2.2.99. <Member> View a profile

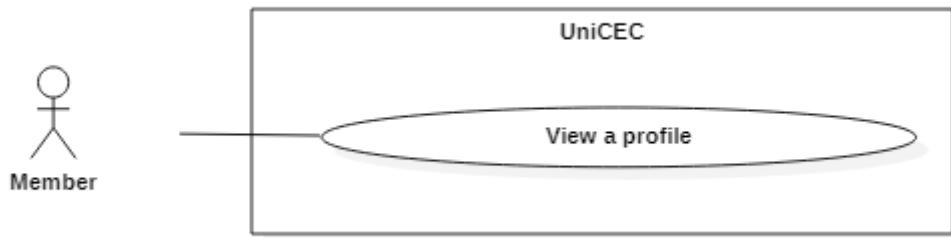


Figure 102. <Student> View a profile

ID and Name:	UC-99 View a profile		
Created By:	HuyVL	Date Created:	29/06/2022
Primary Actor:	Member	Secondary Actors:	N/A
Description:	Student want to view profile		
Trigger:	A member clicks "Thông tin cá nhân"		
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is member in system 		
Post-conditions:	<ul style="list-style-type: none"> Success: System shows profile information Fail: System show error message 		

	Step	Actor actions	System responses
Normal Flow:	1	Member clicks to “Thông tin cá nhân” button as Student role	<p>System show profile information of student:</p> <ul style="list-style-type: none"> • Avatar • Name • Student Code • Description • University • Major • Department • Seedpoints • Email • Phone number • Day of birth • Gender <p>[Exception 1] [Alternative 1]</p>
Alternative Flows:	1	Member clicks to “Thông tin cá nhân” button as Club Manager, System Admin role	<p>System show profile information of student:</p> <ul style="list-style-type: none"> • Avatar • Name <p>[Exception 1]</p>
Exceptions:	0.	Causes	System Responses
	1	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”
Priority:	Medium		
Frequency of Use:	Regularly		
Business Rules:	<ul style="list-style-type: none"> • Each user has each profile information 		
Other Information:	N/A		
Assumptions:	Internet is available. System is working		

Table 111. <Student> View a profile

2.2.100. <Member> Edit a profile



Figure 103. <Member> Edit a profile

ID and Name:	UC-100 Edit a profile							
Created By:	HuyVL	Date Created:	29/06/2022					
Primary Actor:	Member	Secondary Actors:	N/A					
Description:	Student want to view profile							
Trigger:	A member clicks "Thông tin cá nhân"							
Preconditions:	<ul style="list-style-type: none"> The account has active status The account has a role is member in system 							
Post-conditions:	<ul style="list-style-type: none"> Success: System shows profile information Fail: System show error message 							
Normal Flow:	<table border="1"> <thead> <tr> <th>Step</th> <th>Actor actions</th> <th>System responses</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Member clicks to "Thông tin cá nhân" button as Student role</td> <td> <p>System show profile information of student:</p> <ul style="list-style-type: none"> Avatar: image Name: text, 1-50 characters Student Code: text, 1-50 characters Description: text, 1-500 characters University Department: dropdown list Seedpoints: number Email Phone number: number Day of birth: dd/mm/yyyy Gender: bit </td> </tr> </tbody> </table>	Step	Actor actions	System responses	1	Member clicks to "Thông tin cá nhân" button as Student role	<p>System show profile information of student:</p> <ul style="list-style-type: none"> Avatar: image Name: text, 1-50 characters Student Code: text, 1-50 characters Description: text, 1-500 characters University Department: dropdown list Seedpoints: number Email Phone number: number Day of birth: dd/mm/yyyy Gender: bit 	
Step	Actor actions	System responses						
1	Member clicks to "Thông tin cá nhân" button as Student role	<p>System show profile information of student:</p> <ul style="list-style-type: none"> Avatar: image Name: text, 1-50 characters Student Code: text, 1-50 characters Description: text, 1-500 characters University Department: dropdown list Seedpoints: number Email Phone number: number Day of birth: dd/mm/yyyy Gender: bit 						

		[Exception 1, 2, 3 ,4] [Alternative 1]															
Alternative Flows:	N/A																
Exceptions:	<table border="1"> <thead> <tr> <th>No</th><th>Causes</th><th>System Responses</th></tr> </thead> <tbody> <tr> <td>1</td><td>Lost of internet connection</td><td>System shows “Mất kết nối internet. Vui lòng thử lại sau”</td></tr> <tr> <td>2</td><td>Name is not in range 1-50 characted</td><td>System shows “Tên từ 1-50 kí tự”</td></tr> <tr> <td>3</td><td>Student Code is not in range 1-50 characted</td><td>System shows “Mã sinh viên từ 1-50 kí tự”</td></tr> <tr> <td>4</td><td>Description is not in range 1-500 characted</td><td>System shows “Miêu tả từ 1-500 kí tự”</td></tr> </tbody> </table>		No	Causes	System Responses	1	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”	2	Name is not in range 1-50 characted	System shows “Tên từ 1-50 kí tự”	3	Student Code is not in range 1-50 characted	System shows “Mã sinh viên từ 1-50 kí tự”	4	Description is not in range 1-500 characted	System shows “Miêu tả từ 1-500 kí tự”
No	Causes	System Responses															
1	Lost of internet connection	System shows “Mất kết nối internet. Vui lòng thử lại sau”															
2	Name is not in range 1-50 characted	System shows “Tên từ 1-50 kí tự”															
3	Student Code is not in range 1-50 characted	System shows “Mã sinh viên từ 1-50 kí tự”															
4	Description is not in range 1-500 characted	System shows “Miêu tả từ 1-500 kí tự”															
Priority:	Medium																
Frequency of Use:	Regularly																
Business Rules:	<ul style="list-style-type: none"> Each user has each profile information 																
Other Information:	N/A																
Assumptions:	Internet is available. System is working																

Table 112. <Member> Edit a profile

3. Functional Requirements

3.1 System Functional Overview

3.1.1. Screen Flow

3.1.1.1. <Club Manager> Web Application Screen Flow

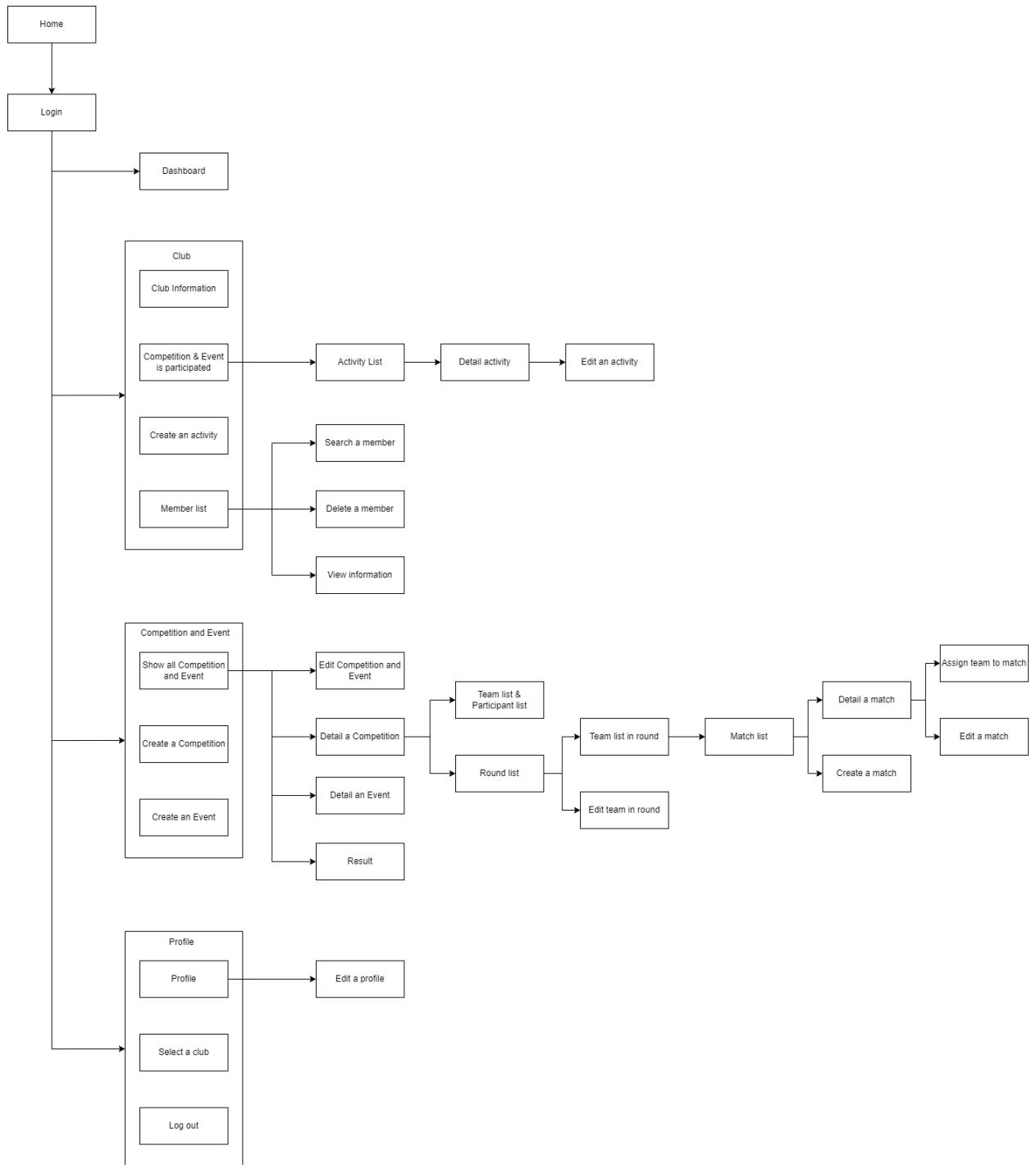


Figure 104. <Club Manager> Web Application Screen Flow

3.1.1.2 <Guest> Web Application Screen Flow

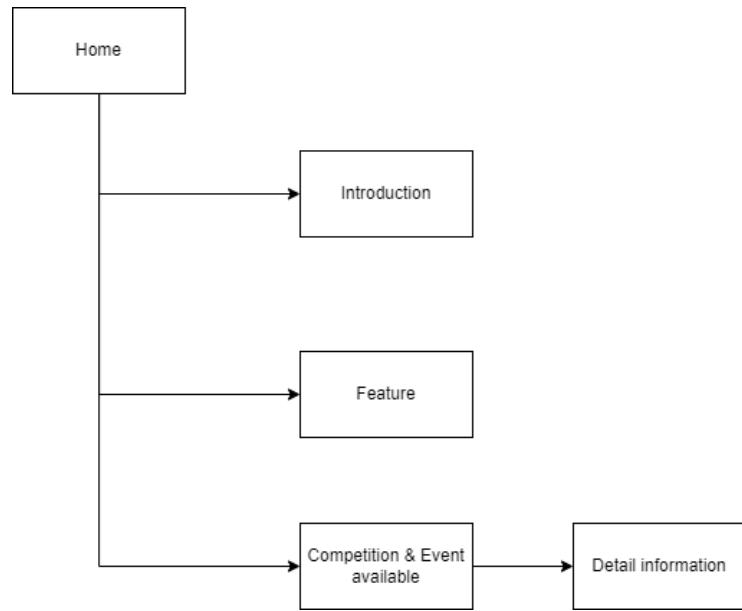


Figure 105. <Guest> Web Application Screen Flow

3.1.1.3 <Student/Member> Mobile Application Screen Flow

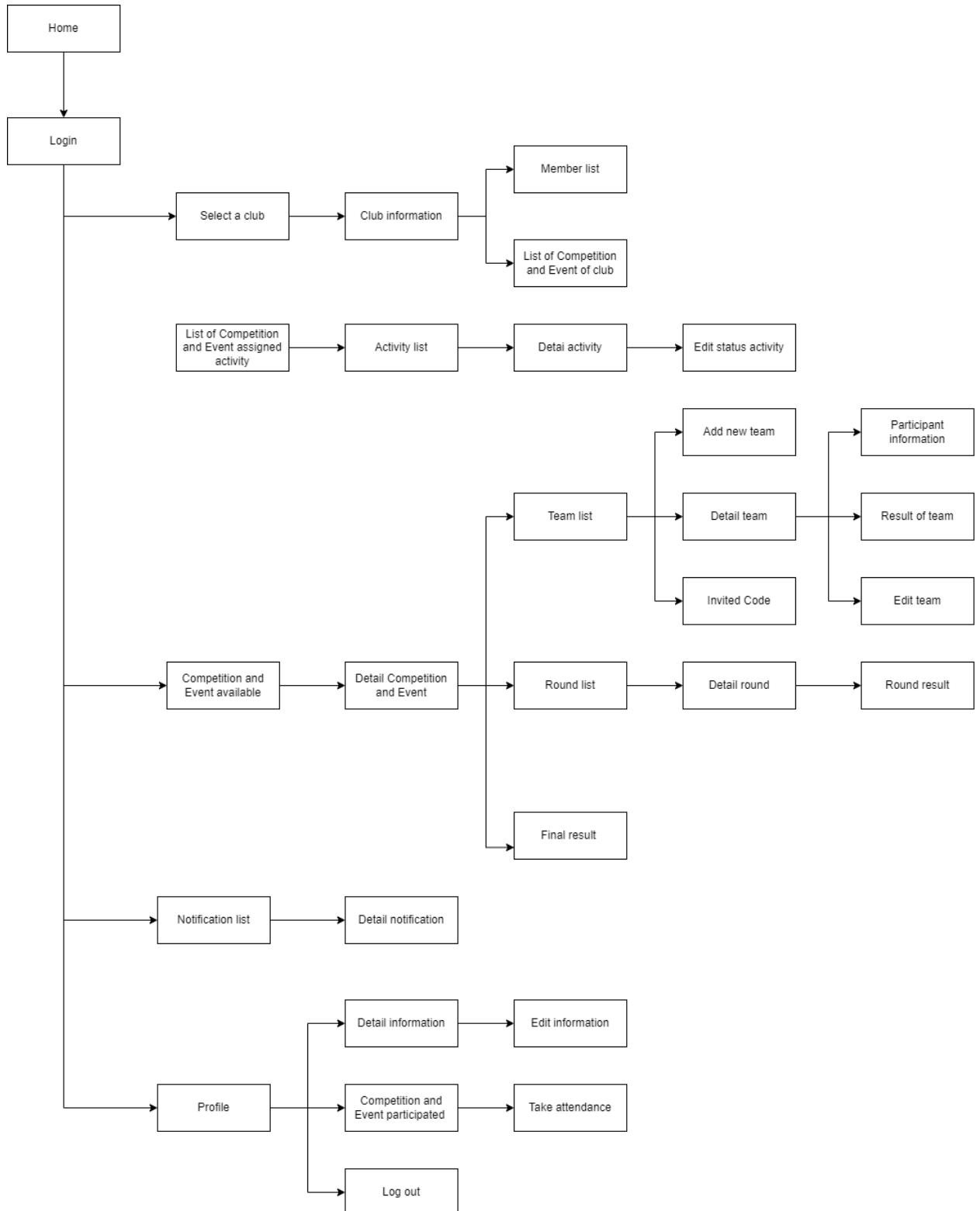


Figure 106. <Student/Member> Mobile Application Screen Flow

3.1.1.4 <University Admin> Web Application Screen Flow

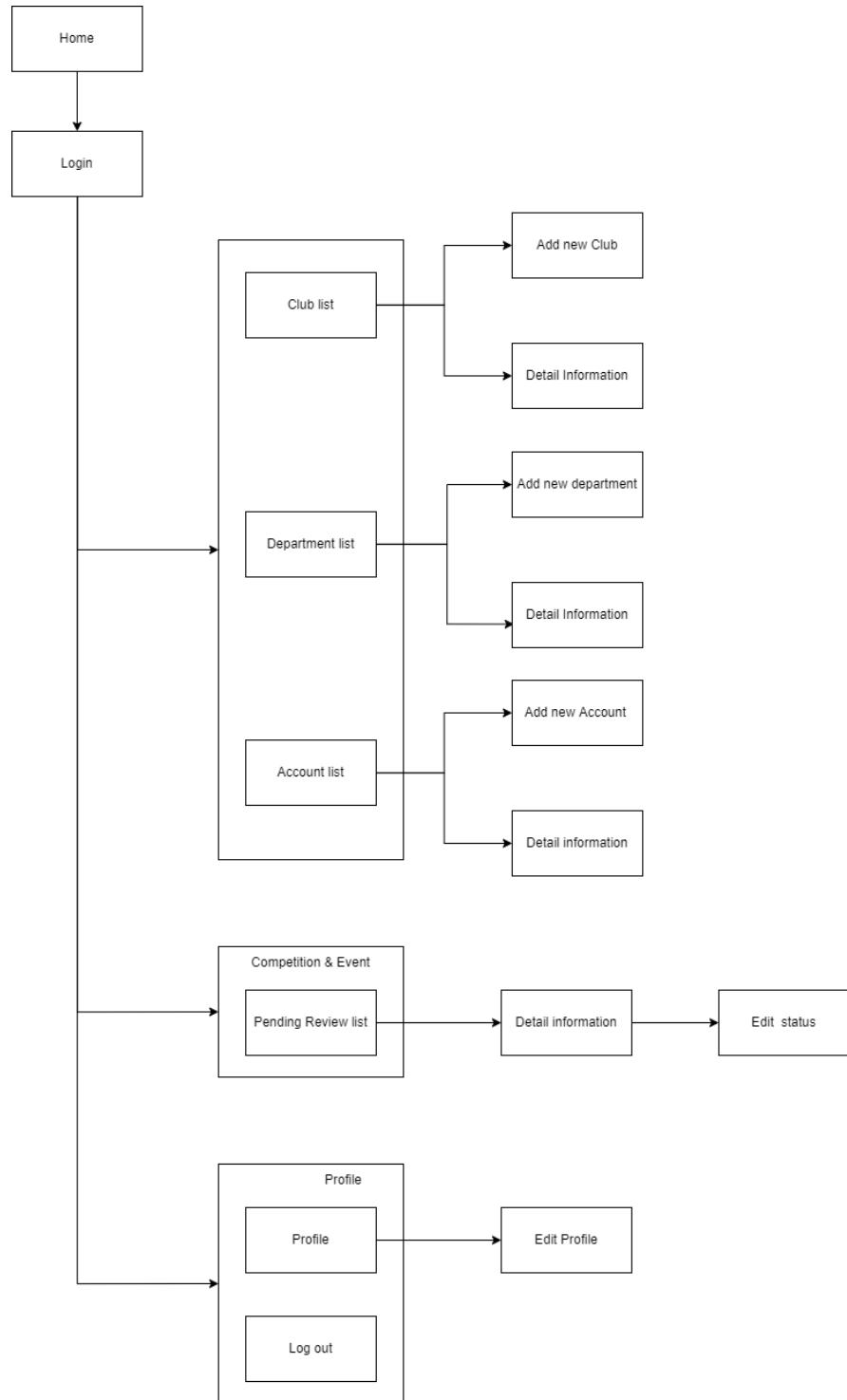


Figure 107. <University Admin> Web Application Screen Flow

4. Non-Functional Requirements

4.1. External Interfaces

4.1.1. User Interfaces

UI-1: The language used for the mobile application and web application is Vietnamese.

4.1.2. Communicate Interfaces

CI-1: Communication:

- The system uses third-party cloud messaging to push notification

CI-2: File Storage Service:

- We use a third-party file storage system to store files

4.2. Quality Attributes

4.2.1. Usability

- Easy-to-use manager interface after training for at least 10-15 minutes
- Mobile application interface for student easy to use without training

4.2.2. Reliability

- If the website goes down, the administrator has responsibility to restore the website in the shortest time.
- User accounts are not allowed to be transmitted over the network environment without being encrypted.
- Data is absolutely confidential.
- Data is updated daily

4.2.3. Security

- The system is currently divided into 5 roles: System Admin, University Admin, Club Manager, Student, Member
- Each role only accesses a group of functions

5. Hardware Requirements

Edge Device	Minimum Requirement	Recommended
CPU	Quad-core ARM® A57 @ 1.43 GHz	Quad-core ARM Cortex-A57 MP Core processor
GPU	128-core NVIDIA Maxwell™	NVIDIA Maxwell architecture with 128 NVIDIA CUDA® cores
Memory	2 GB 64-bit LPDDR4 25.6 GB/s	4 GB 64-bit LPDDR4, 1600MHz 25.6 GB/s
Storage	32 GB	32 GB
Camera	160 Degree FoV IR Camera	160 Degree FoV IR Camera
Connectivity	Wi-Fi (4 Mbps)	Wi-Fi (8Mbps)

Table 113. Hardware Requirements

IV. Software Design Description

1. Overall Description

1. Assumptions

The system is designed based on the following assumptions:

- Windows 10
- Chrome 68
- Postgres 12
- Android 6 or higher
- End-user: student, club manager

2. Design Constraints

The system depends on network connections.

2. System Architecture Design

2.1 Overall System Architecture

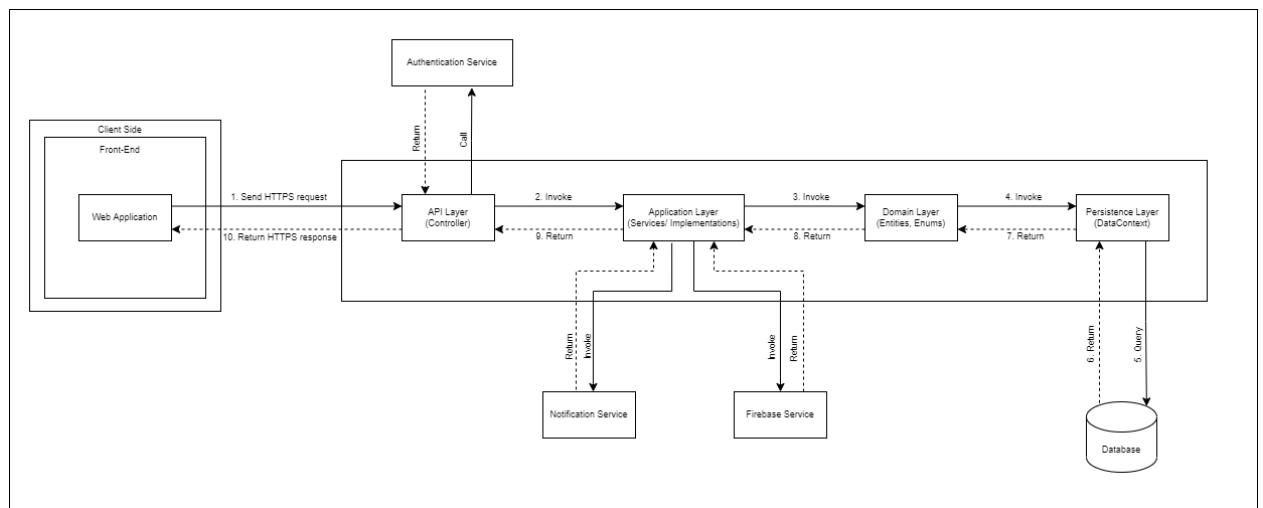


Figure 108. System Architecture

No.	Name	Description
1	Front-End	<p>Client component to render and display data from the server. Client component provides functions:</p> <ul style="list-style-type: none"> • For staff and admin: manage the national high school exam including: universities, majors, seasons, articles, tests. • For student: receive major suggestion, ranking information, do mock test, view university information, ...
2	Firebase Service	Storage service to store resources of the system. The resources are: image of universities, tests and articles.
3	Notification Service	Service to notify message from the system to students when the rank of student is updated, the information of university which student follows is updated, and when new article relates to student is published.
4	UniCEC API Layer	It handles request from Front End and response from the system.
5	Business logic process layer (Domain)	It handles the business logic of the system.
6	Repository	It handles reading and writing data in the system.
7	Database	It stores the data of the system.

Table 114. System Architecture

2.2 Component Diagram

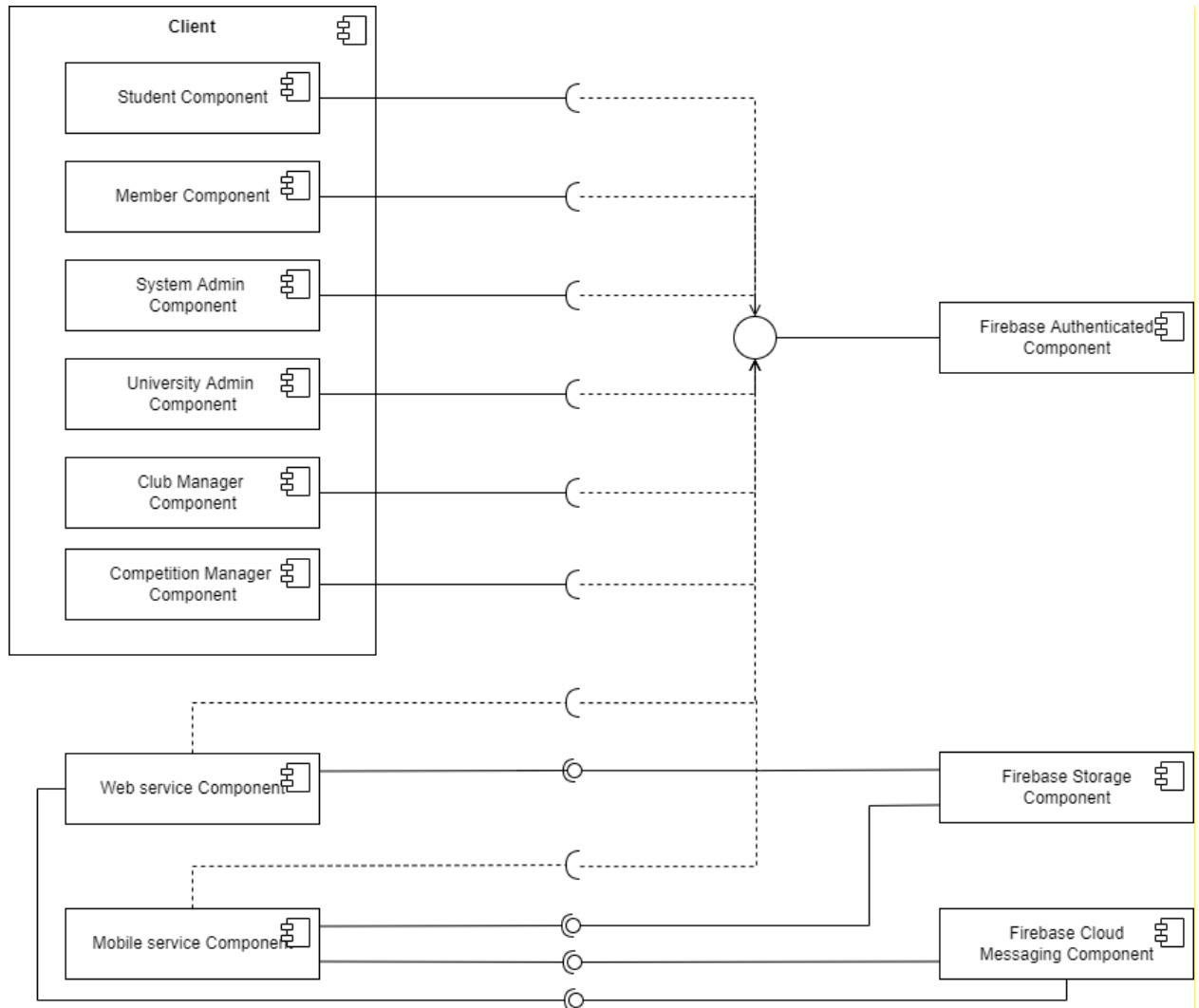


Figure 109. Component Diagram

No.	Name	Description
1	Firebase Authentication Component	User use Gmail account to be authenticated in the UniCEC system. This component oversees authenticating the account of the user and send the result to our system.
2	Firebase Storage Component	Stores and serves user-generated contents, contains photo.
3	Firebase Cloud Messaging Component	a cross-platform cloud solution for messages and notifications for Android, iOS, and web applications
4	Client Component	Student component to render and display data from the server.

5	Student Component	It provides features include participate in competition or event, view a result, participate in club
6	Member Component	It provides features include participate in competition or event, view an activity, update an activity
7	System Admin	It provides features include CRUD major, CRUD university
8	University Admin	It provides features include CRUD department, CRUD Club
9	Club Manager	It provides features include CRUD Competition, CRUD event, CRUD member
10	Competition Manager	It provides features include CRUD activity, CRUD competition round

Table 115. Component Diagram Description

2.3 Package Diagram

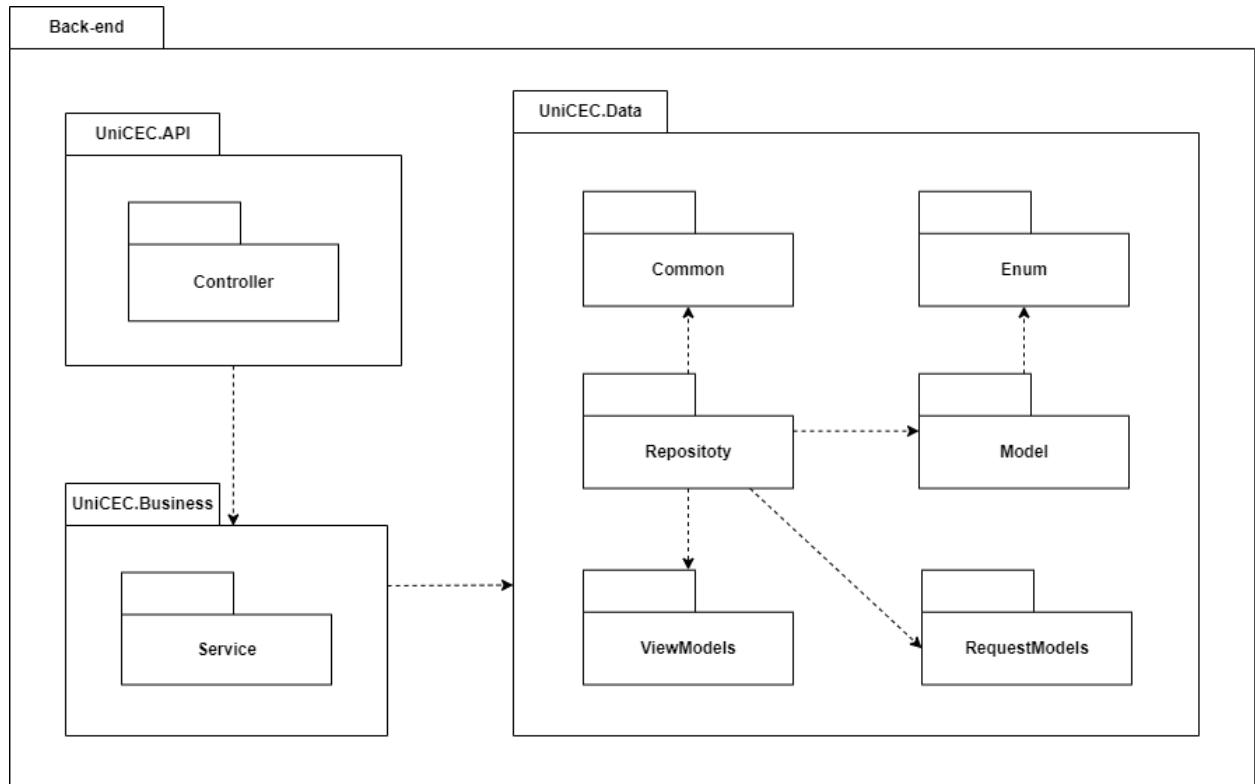


Figure 110. Package Diagram

No.	Name	Description
1	Controller	<ul style="list-style-type: none"> • This package contains classes for controllers in app.
2	Services	The package contains all classes interface and classes implement interface of project, processing business logic
3	Common	The package contain classes for supporting
4	ViewModels	The package contains classes response
5	Model	The package contains classes representing the business logic entities, also responsible for entity framework database first
6	RequestModels	Receive parameter from request
7	Respository	The package contains interfaces of a repository
8	Enum	This package contains classes for enum data

Table 116. Package Diagram

3. System Detailed Design

3.1 ERD Conceptual Diagram

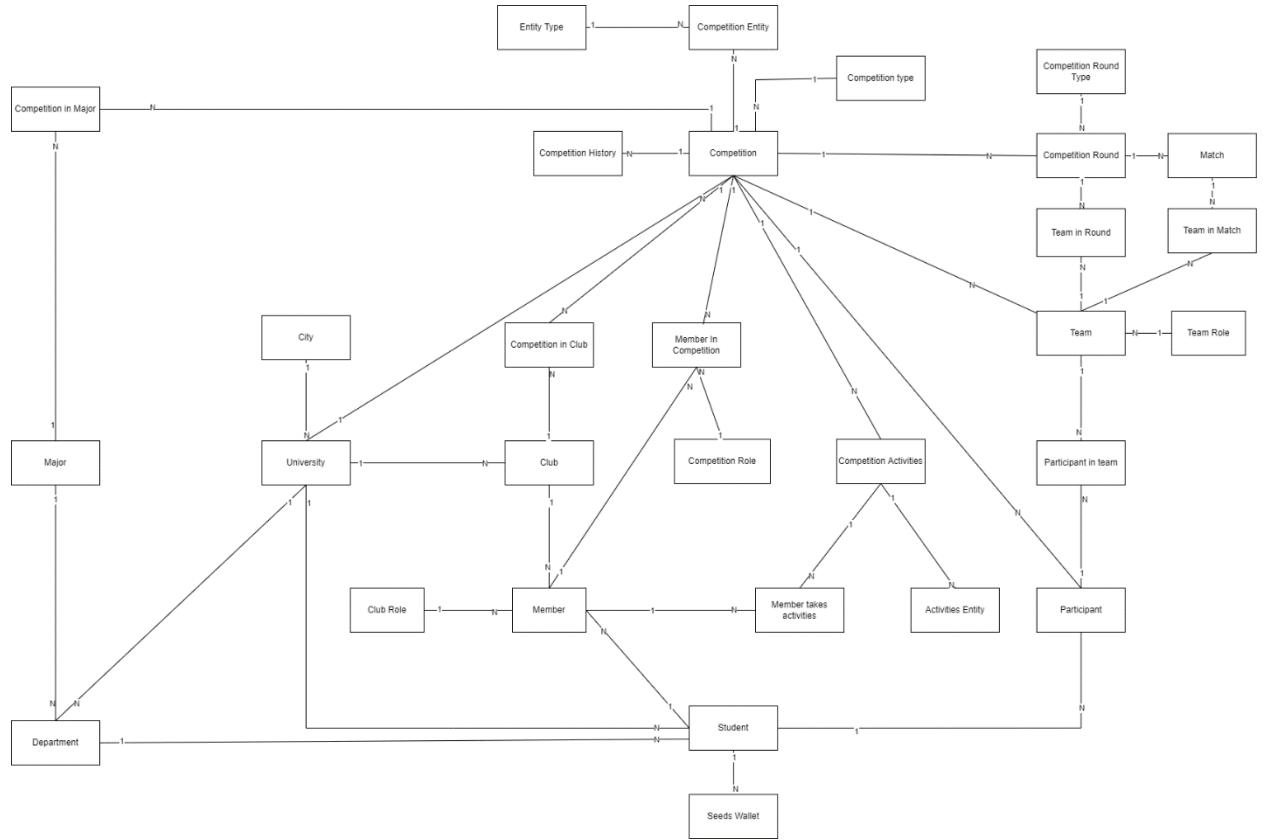


Figure 111. ERD Conceptual Diagram

References: [UniCEC_ERD Conceptual Diagram](#)

3.2 Class Diagram

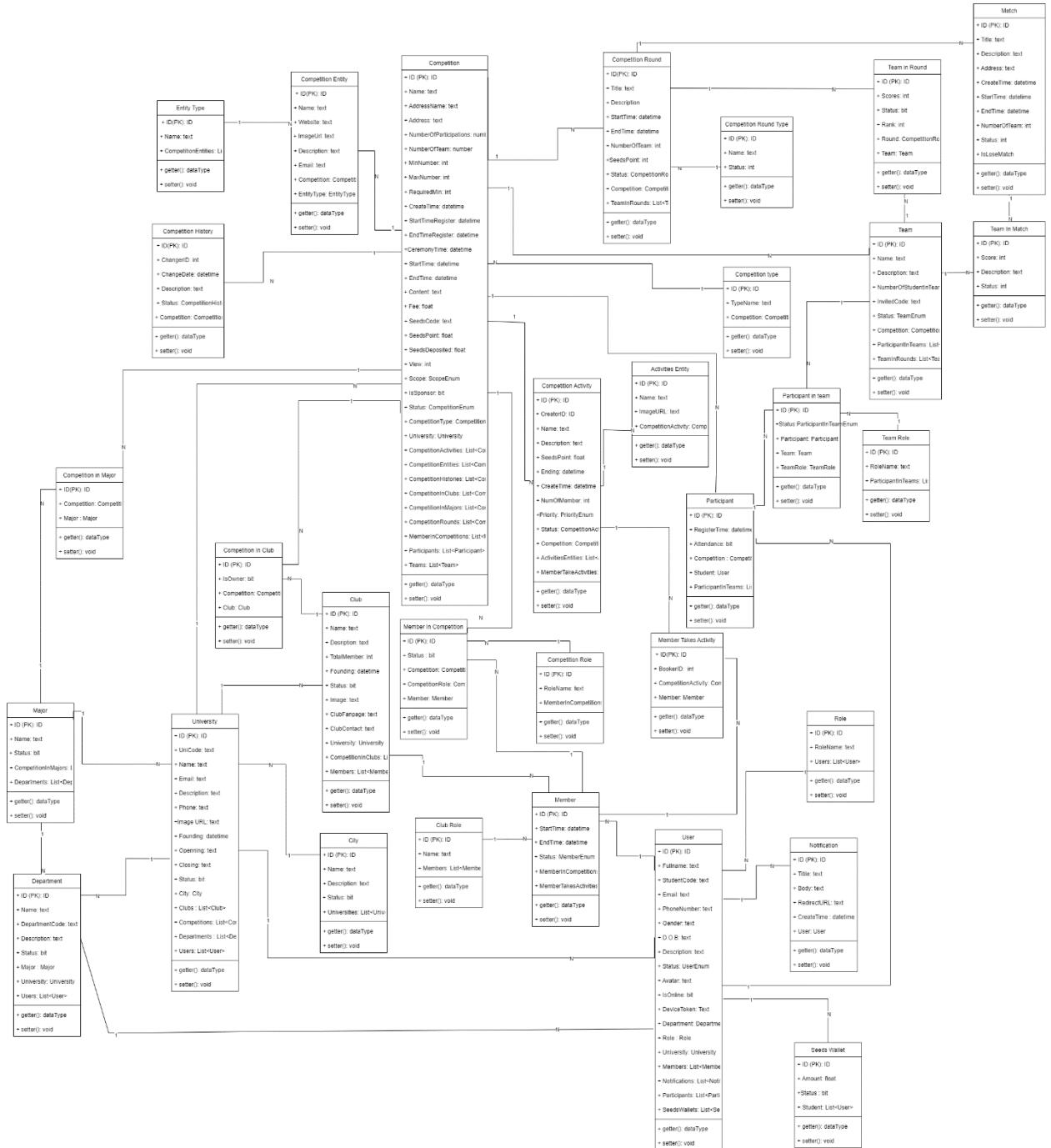


Figure 112. Class Diagram

References: [UniCEC Class Diagram](#)

3.3 Class Specification

3.3.1 ActivitiesEntity Class

No	Attribute	Data Type	Visibility	Description
----	-----------	-----------	------------	-------------

1	Id	int	public	Unique define of activity entity
2	Name	String	public	Name of activity entity
3	ImageUrl	String	public	Link image of activity entity
4	CompetitionActivity	CompetitionActivity	public	Define which competition activity belong to

Table 117. ActivitiesEntity Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 118. ActivitiesEntity Class Method

3.3.2 City Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of city
2	Name	String	public	Name of city
3	Description	String	public	Description of city
4	Status	bool	public	Status of city
5	Universities	List<University>	public	Define number of Universities belong to city

Table 119. City Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 120. City Class Method

3.3.3 Club Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of club
2	Name	String	public	Name of club
3	Description	String	public	Description of club
4	TotalMember	int	public	Number of member in club
5	Founding	DateTime	public	Date of club is created
6	Status	bool	public	Status of club
7	Image	String	public	Link image of club
8	ClubFanpage	String	public	Club fan page of club
9	ClubContact	String	public	Club contact of club
10	University	University	public	Define which University belong to
11	CompetitionInClubs	List<CompetitionInClub>	public	Define which Competition or Event

				of club is joining and creating
12	Members	List<Member>	public	Define number of members belong to club

Table 121. City Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 122. Club Class Method

3.3.4 Club Role Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of club role
2	Name	String	public	Name of role
3	Members	List<Member>	public	Define which member belong to this club role

Table 123. Club Role Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 124. Club Role Class Method

3.3.5 Competition Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of Competition or Event
2	Name	String	public	Name of Competition or Event
3	AddressName	String	public	Address Name of Competition or Event
4	Address	String	public	Address of Competition or Event
5	NumberOfParticipant	int	public	Number of participants join in Competition or Event

6	NumberOfTeam	int	public	Number of team in Competition or Event
7	RequiredMin	Int	Public	- Event: this is a minimum of participant - Competition: this is a minimum of team
8	MinNumber	int	public	Define minimum number of member in team
9	MaxNumber	int	public	Define maximum number of member in team
10	CreateTime	DateTime	public	Define Creating Time of Competition or Event
11	StartTimeRegister	DateTime	public	Define Starting Time Register of Competition or Event
12	EndTimeRegister	DateTime	public	Define Ending Time Register of Competition or Event
13	CeremonyTime	DateTime	public	Define Ceremony Time of Competition or Event
14	StartTime	DateTime	public	Define Starting Time of Competition or Event
15	EndTime	DateTime	public	Define Ending Time of Competition or Event
16	Content	String	public	Content of Competition or Event

17	Fee	double	public	Fee of Competition or Event
18	SeedsCode	String	public	Define code of Competition or Event
19	SeedsPoint	double	public	Define point of Competition or Event
20	SeedsDeposited	double	public	Define deposit point when joining a Competition or Event
21	View	int	public	Number of view which Competition or Event is searched by Student
22	Scope	ScopeEnum	public	Define scope of Competition or Event belong to
23	IsSponsor	bool	public	Define Competition or Event has sponsor
24	Status	CompetitionEnum	public	Define status of Competition or Event belong to
25	CompetitionType	CompetitionType	public	Define what type of Competition or Event belong to
26	University	University	public	Define what university of Competition or Event belong to
27	CompetitionActivities	List<CompetitionActivity>	public	Define what activities of Competition or Event has
28	CompetitionEntities	List<CompetitionEntity>	public	Define what entity of Competition or Event has

29	CompetitionHistories	List<CompetitionHistory>	public	Define history of status which Competition or Event has
30	CompetitionInClubs	List<CompetitionInClub>	public	Define number of clubs which joining in Competition or Event
31	CompetitionInMajors	List<CompetitionInMajor>	public	Define what major in Competition or Event has
32	CompetitionRounds	List<CompetitionRound>	public	Define number of round in Competition or Event has
33	MemberInCompetition	List<MemberInCompetition>	public	Define members managing Competition or Event
34	Participants	List<Participant>	public	Define students who participate in Competition or Event
35	Teams	List<Team>	public	Define teams in Competition or Event

Table 125. Competition Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 126. Competition Class Method

3.3.6 Competition Activity Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of club
2	CreatorId	int	public	Define member id who create competition activity

3	Name	String	public	Name of competition activity
4	Description	String	public	Description of competition activity
5	SeedsPoint	double	public	Define point of competition activity
6	CreateTime	DateTime	public	Define creating time of competition activity
7	Ending	DateTime	public	Define ending time of competition activity
8	Priority	PriorityEnum	public	Define priority of activity
9	Status	CompetitionActivityEnum	public	Define status of activity
10	Competition	Competition	public	Define which Competition belong to
11	ActivitiesEntities	List<ActivitiesEntity>	public	Define activities entities belong to which activity
12	MemberTakesActivities	List<MemberTakesActivity>	public	Define number of members take activity

Table 127. Competition Activity Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 128. Competition Activity Class Method

3.3.7 Competition Entity Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of competition entity
2	Name	String	public	Name of competition entity
3	ImageUrl	String	public	Link image of competition entity
4	Website	String	public	Website of competition entity
5	Description	String	public	Description of competition entity
6	Email	String	public	Email of competition entity

7	Competition	Competition	public	Define which Competition or Event belong to
8	EntityType	EntityType	public	Define which entity type belong to

Table 129. Competition Entity Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 130. Competition Entity Class Method

3.3.8 Competition History Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of competition history
2	ChangerId	int	public	Define who change status of Competition or Event
3	ChangeDate	DateTime	public	Define date change status
4	Description	String	public	Description of competition entity
5	Status	CompetitionEnum	public	Define status of Competition or Event belong to
6	Competition	Competition	public	Define which Competition or Event belong to

Table 131. Competition History Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 132. Competition History Class Method

3.3.9 Competition In Club Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of competition in club
2	IsOwner	bool	public	Define who owner of Competition or Event
3	Club	Club	public	Define which club belong to
4	Competition	Competition	public	Define which Competition or Event belong to

Table 133. Competition In Club Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 134. Competition In Club Class Method

3.3.10 Competition In Major Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of competition in club
2	Competition	Competition	public	Define which Competition or Event belong to
3	Major	Major	public	Define which major belong to

Table 135. Competition In Major Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 136. Competition In Major Class Method

3.3.11 Competition Role Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of role in Competition or Event
2	RoleName	String	public	Name of role in Competition or Event
3	MemberInCompetitions	List<MemberInCompetition>	public	Define which member belong to this role in Competition or Event

Table 137. Competition Role Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 138. Competition Role Class Method

3.3.12 Competition Round Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of round in Competition
2	Title	String	public	Title of round in Competition

3	Description	String	public	Description of competition round
4	StartTime	DateTime	public	Starting time of competition round
5	EndTime	DateTime	public	Ending time of competition round
6	NumberOfTeam	int	public	Define number of team in Competition
7	SeedsPoint	int	public	Define seeds point of round
8	Status	CompetitionRoundEnum	public	Define status of competition round
9	Competition	Competition	public	Define which Competition belong to
10	TeamInRounds	List<TeamInRounds>	public	Define which Team belong to

Table 139. Competition Round Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 140. Competition Round Class Method

3.3.13 Competition Type Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of competition type
2	TypeName	String	public	Name of competition type
3	Competitions	List<Competition>	public	Define which Competition or Event belong to

Table 141. Competition Type Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 142. Competition Type Class Method

3.3.14 Department Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of department
2	Name	String	public	Name of department
3	DepartmentCode	String	public	Department code of department
4	Description	String	public	Description on department
5	Status	bool	public	Status of department

6	Major	Major	public	Define which major belong to
7	University	University	public	Define which university belong to
8	Users	List<User>	public	Define which user belong to

Table 143. Department Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 144. Department Class Method

3.3.15 Entity Type Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of entity type
2	Name	String	public	Name of entity type
3	CompetitionEntities	List<CompetitionEntity>	public	Define which competition entity belong to

Table 145. Entity Type Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 146. Entity Type Class Method

3.3.16 Major Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of major
2	Name	String	public	Name of major
3	Status	bool	public	Status of major
4	CompetitionInMajors	List<CompetitionInMajor>	public	Define which Competition or Event belong to
5	Departments	List<Department>	public	Define which Department belong to

Table 147. Major Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 148. Major Class Method

3.3.17 Member Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of member
2	StartTime	DateTime	public	Define starting time when member join club
3	EndTime	DateTime	public	Define starting time when member out club
4	Status	MemberEnum	public	Status of member
5	Club	Club	public	Define which club belong to
6	ClubRole	ClubRole	public	Define which club role belong to
7	User	User	public	Define which user belong to
8	MemberInCompetitions	List<MemberInCompetition>	public	Define which member in competition belong to
9	MemberTakesActivities	List<MemberTakesActivity>	public	Define which member take activity belong to

Table 149. Member Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 150. Member Class Method

3.3.18 Member In Competition Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of member in competition
2	Status	bool	public	Status of member in competition
3	Competition	Competition	public	Define which Competition or Event belong to

4	CompetitionRole	CompetitionRole	public	Define which competition role belong to
5	Member	Member	public	Define which member belong to

Table 151. Member In Competition Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 152. Member In Competition Class Method

3.3.19 Member Takes Activity Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of member takes activity
2	BookerId	int	public	Define member id who assign activity for their member in club
3	CompetitionActivity	CompetitionActivity	public	Define which competition activity belong to
4	Member	Member	public	Define member do competition activity

Table 153. Member Takes Activity Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 154. Member Takes Activity Class Method

3.3.20 Notification Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of notification
2	Title	String	public	Title of notification
3	Body	String	public	Body of notification
4	RedirectUrl	String	public	Link of notification
5	CreateTime	DateTime	public	Creating time of notification
6	User	User	public	Define which user belong to

Table 155. Notification Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 156. Notification Class Method

3.3.21 Participant Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of participant
2	RegisterTime	DateTime	public	Define registering time when Student participate in competition or event
3	Attendance	bool	public	Define which participant attendance or not
4	Competition	Competition	public	Define which competition or event belong to
5	Student	User	public	Define which user belong to
6	ParticipantInTeams	List<ParticipantInTeam>	public	Define which participant in team belong to

Table 157. Participant Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 158. Participant Class Method

3.3.22 Participant In Team Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of participant in team
2	Status	ParticipantInTeamEnum	public	Status of participant in team
3	Participant	Participant	public	Define which participant belong to
4	Team	Team	public	Define which team belong to
5	TeamRole	TeamRole	public	Define which team role belong to

Table 159. Participant In Team Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 160. Participant In Team Class Method

3.3.23 Role Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of role
2	RoleName	String	public	Name of role
3	Users	List<User>	public	Define which user belong to this role

Table 161. Role Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 162. Role Class Method

3.3.24 Seeds Wallet Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of seeds wallet
2	Amount	double	public	Amount of seeds point
3	Status	bool	public	Define status of seeds wallet
4	Student	User	public	Define which user belong to

Table 163. Seeds Wallet Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 164. Seeds Wallet Class Method

3.3.25 Team Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of team
2	Name	String	public	Name of team
3	Description	String	public	Description of team
4	NumberOfStudentInTeam	int	public	Number of member in team
5	InvitedCode	String	public	Invite code of team
6	Status	TeamEnum	public	Status of team
7	Competition	Competition	public	Define which competition belong to
8	ParticipantInTeams	List<ParticipantInTeam>	public	Define which participant in team belong to

9	TeamInRounds	List<TeamInRound>	public	Define which round belong to
---	--------------	-------------------	--------	------------------------------

Table 165. Team Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 166. Team Class Method

3.3.26 Team In Round Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of team in round
2	Status	bool	public	Status of team in round
3	Rank	int	public	Rank of team in round
4	Round	CompetitionRound	public	Define which round belong to
5	Team	Team	public	Define which team belong to

Table 167. Team In Round Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 168. Team In Round Class Method

3.3.27 Team Role Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of team role
2	Name	String	public	Name of role
3	ParticipantInTeams	List<ParticipantInTeam>	public	Define which participant belong to this club role

Table 169. Team Role Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 170. Team Role Class Method

3.3.28 University Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of university

2	UniCode	String	public	Code of university
3	Name	String	public	Name of university
4	Email	String	public	Email of university
5	Description	String	public	Description of university
6	Phone	String	public	Phone of university
7	ImageUrl	String	public	Link image of university
8	Founding	DateTime	public	Founding time of university
9	Openning	String	public	Opening time of university
10	Closing	String	public	Closing time of university
11	Status	bool	public	Status of university
12	City	City	public	Define which city belong to
13	Clubs	List<Club>	public	Define which clubs belong to
14	Competitions	List<Competition>	public	Define which competition or event belong to
15	Departments	List<Department>	public	Define which departments belong to
16	Users	List<User>	public	Define which students belong to

Table 171. University Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 172. University Class Method

3.3.29 User Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of user
2	Fullscreen	String	public	Full name of user
3	StudentCode	String	public	Student code of user
4	Email	String	public	Email of user
5	PhoneNumber	String	public	Phone of user
6	Gender	String	public	Gender of user
7	Dob	String	public	Date of birth of user
8	Description	String	public	Description of user
9	Avatar	String	public	Link image of user
10	Status	UserEnum	public	Status of user
11	IsOnline	bool	public	Define User online or not
12	DeviceToken	String	public	Define which device belong to
13	Department	Department	public	Define which department belong to
14	Role	Role	public	Define which role belong to
15	University	University	public	Define which university belong to
16	Members	List<Member>	public	Define which member belong to
17	Notifications	List<Notification>	public	Define which notification belong to
18	Participants	List<Participant>	public	Define which participant belong to

19	SeedsWallets	List<SeedsWallet>	public	Define which seeds wallet belong to
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Table 173. User Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 174. User Class Method

3.3.30 Team In Match Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of team in match
2	Scores	int	public	Define score of team
3	Status	TeamInMatchEnum	public	Define status of team in that match
4	Description	String	public	Description of team in match
5	Match	Match	public	Define which match belong to
6	Team	Team	public	Define which team belong to

Table 175. Team In Match Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 176. Team In Match Class Method

3.3.31 Match Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of team in match
2	Address	String	public	Address of match
3	Title	TeamInMatchEnum	public	Title of Match
4	Description	String	public	Description of match
5	CreateTime	DateTime	public	Define Creating Time of match
6	StartTime	DateTime	public	Define Starting Time of match
7	EndTime	DateTime	public	Define Ending Time of match
8	Number Of Team	int	public	Define number of team in match
9	Status	MatchEnum	public	Define status of match

10	IsLoseMatch	bool	public	Define which team participates lose branch
----	-------------	------	--------	--

Table 177. Match Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 178. Match Class Method

3.3.32 Competition Round Type Class

No	Attribute	Data Type	Visibility	Description
1	Id	int	public	Unique define of Competition Round Type
2	Name	String	public	Name of Competition Round Type
3	Status	bool	public	Define status of Competition Round Type

Table 179. Competition Round Type Class Attribute

No	Method	Return Type	Accessibility	Description
1	Getter()	Data Type	public	To get attribute value
2	Setter()	void	public	To get value of attribute

Table 180. Competition Round Type Class Method

3.4 Sequence Diagram

References: [UniCEC Sequence Diagram](#)

3.4.1 Create new competition

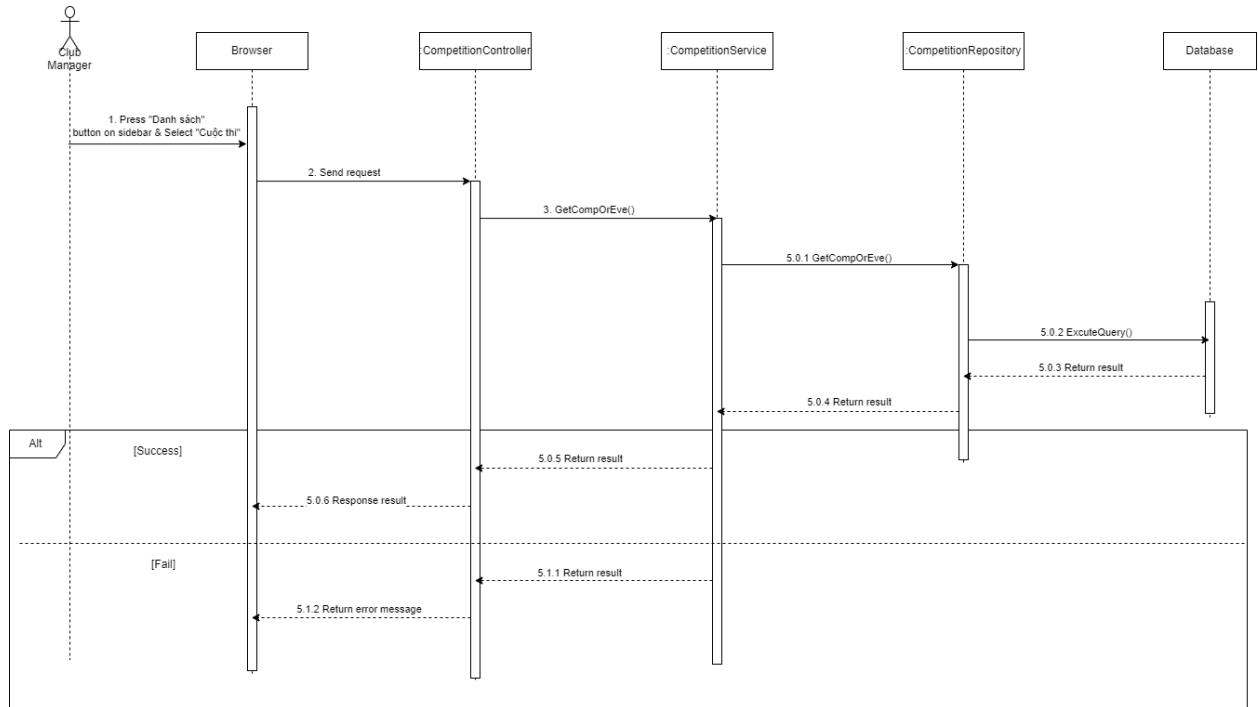


Figure 113. Create new competition Sequence Diagram

3.4.2 View list competition

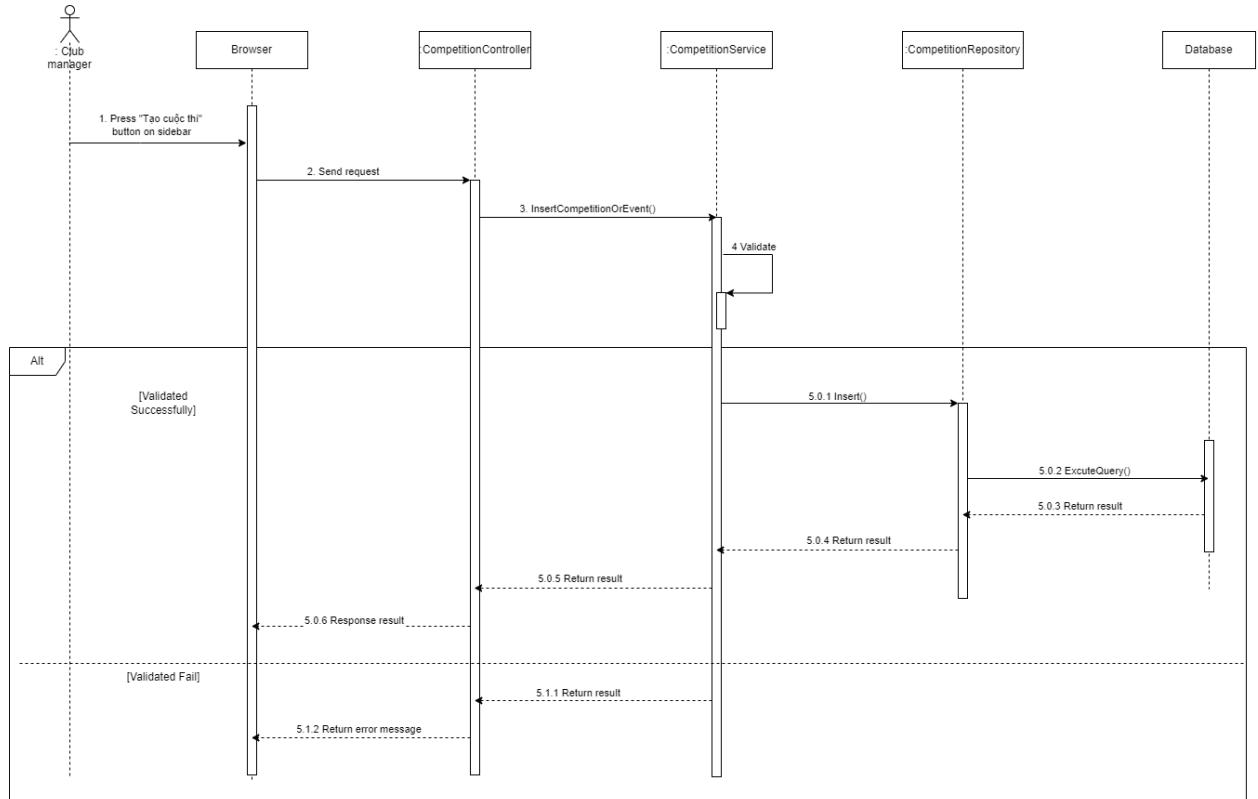


Figure 114. View list competition Sequence Diagram

3.4.3 View detail competition

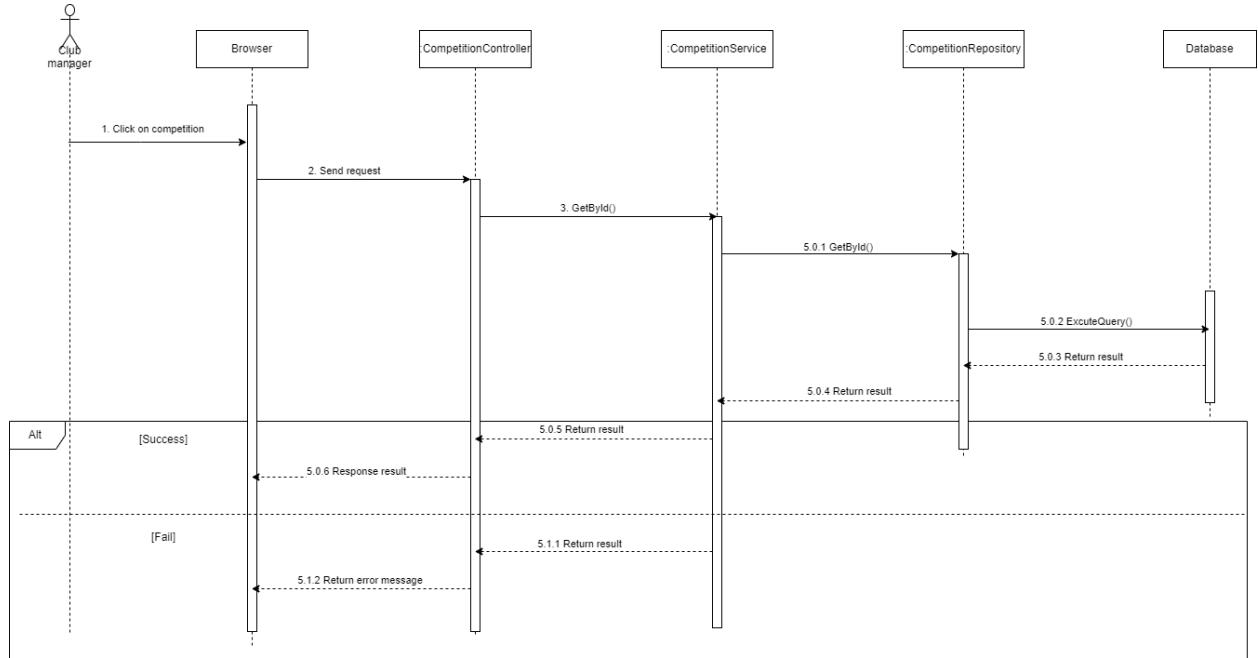


Figure 115. View detail competition Sequence Diagram

3.4.4 Create new activity

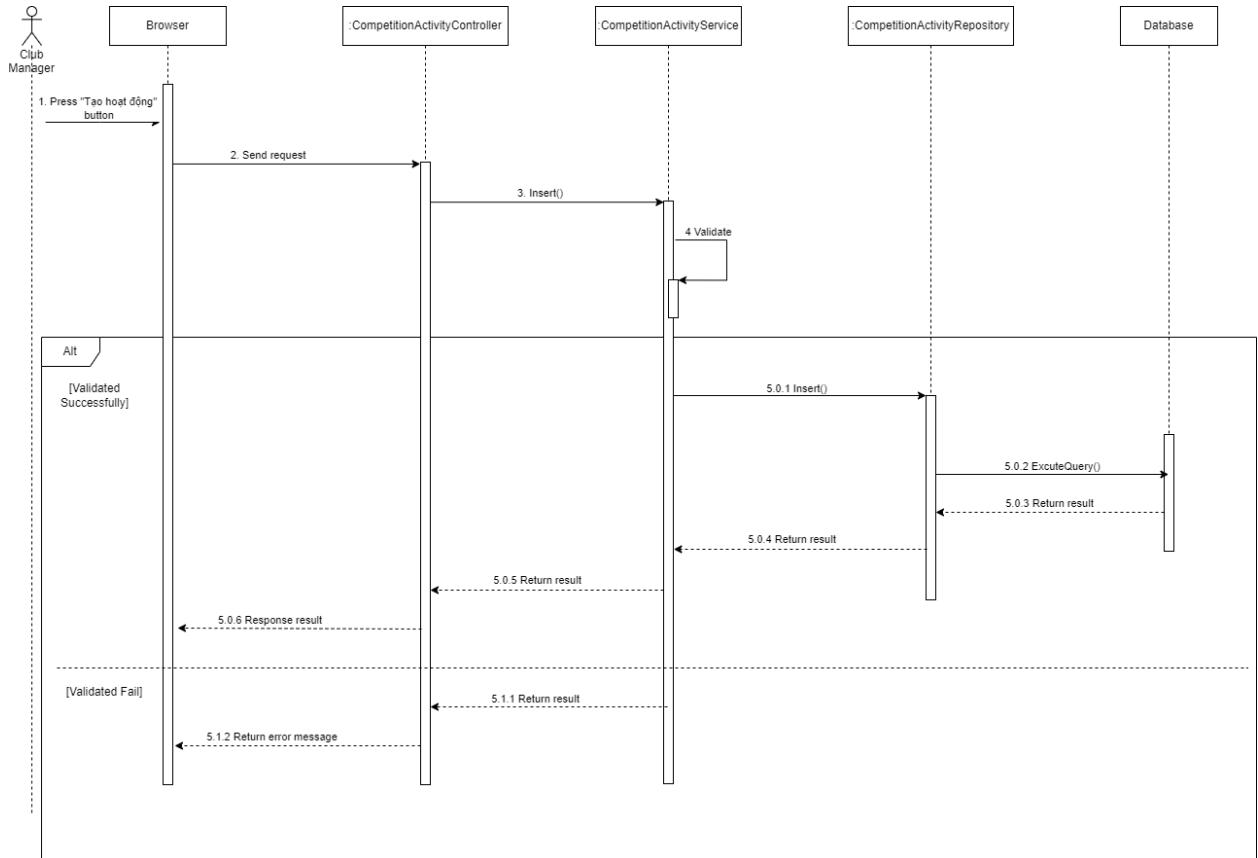


Figure 116. Create new activity Sequence Diagram

3.4.5 View list activity

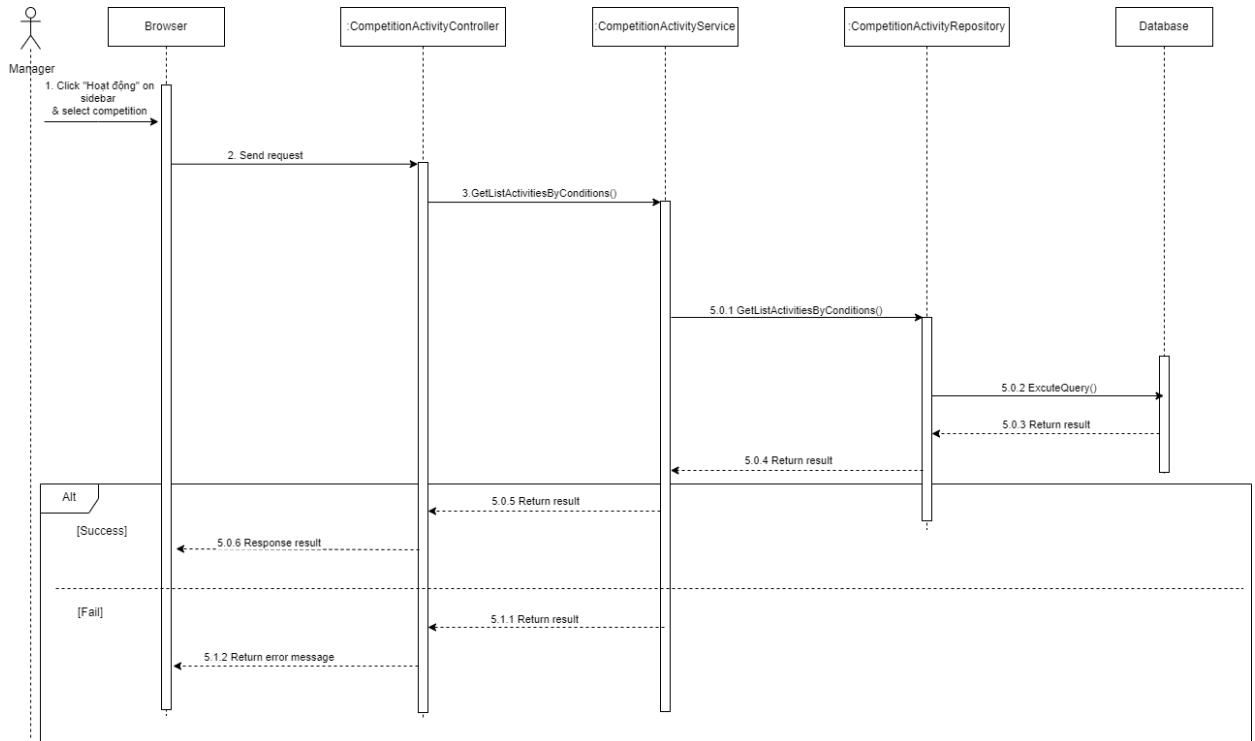
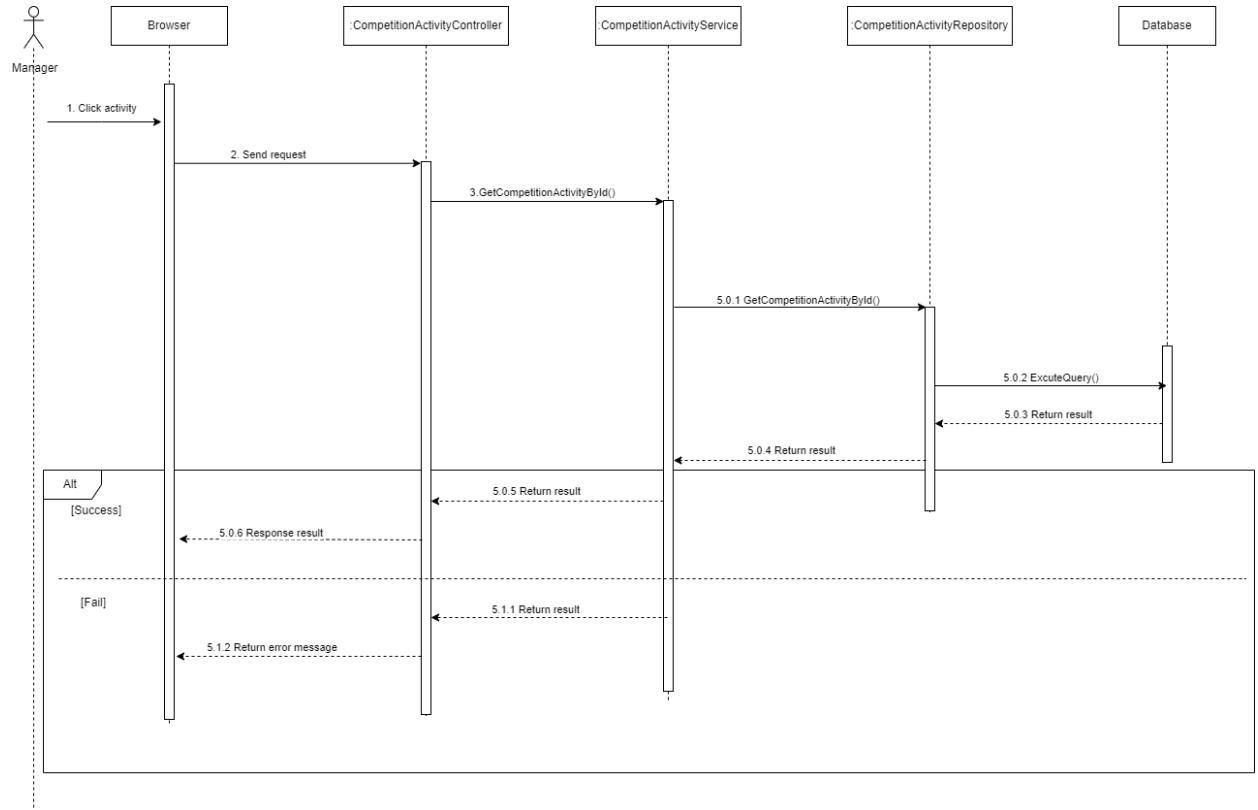


Figure 117. View list activity

3.4.6 View detail activity



3.4.7 View list member

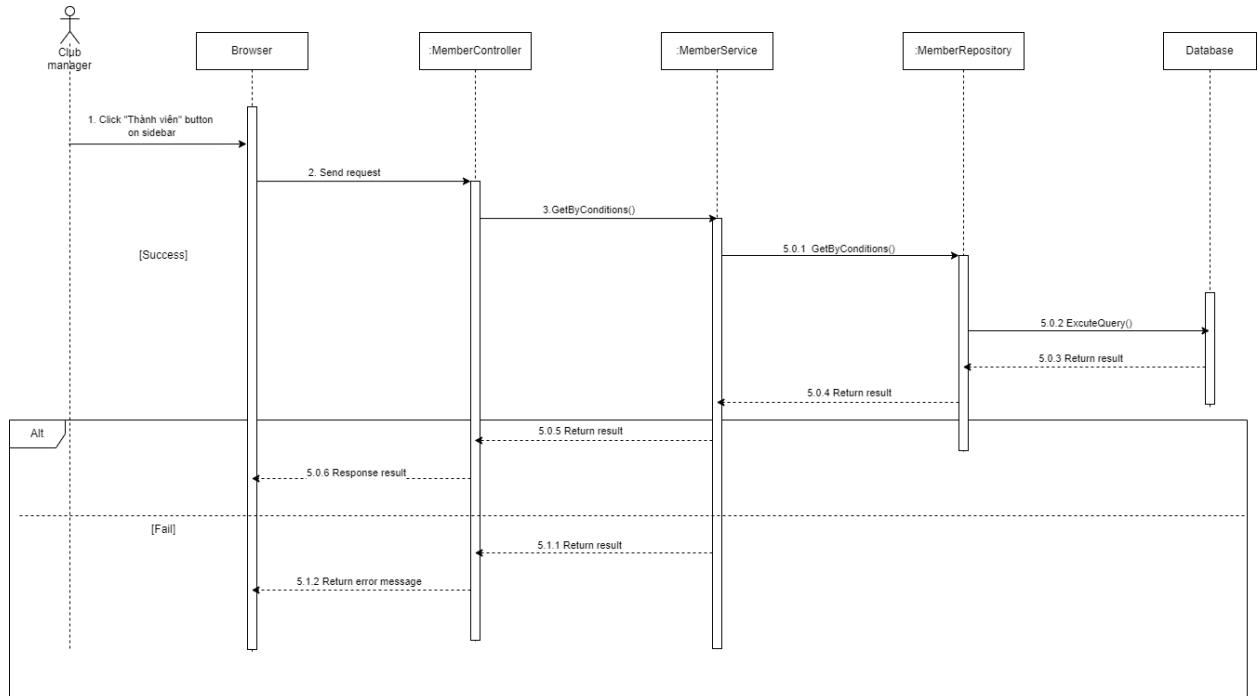


Figure 118. View list member Sequence Diagram

3.4.8 View detail club

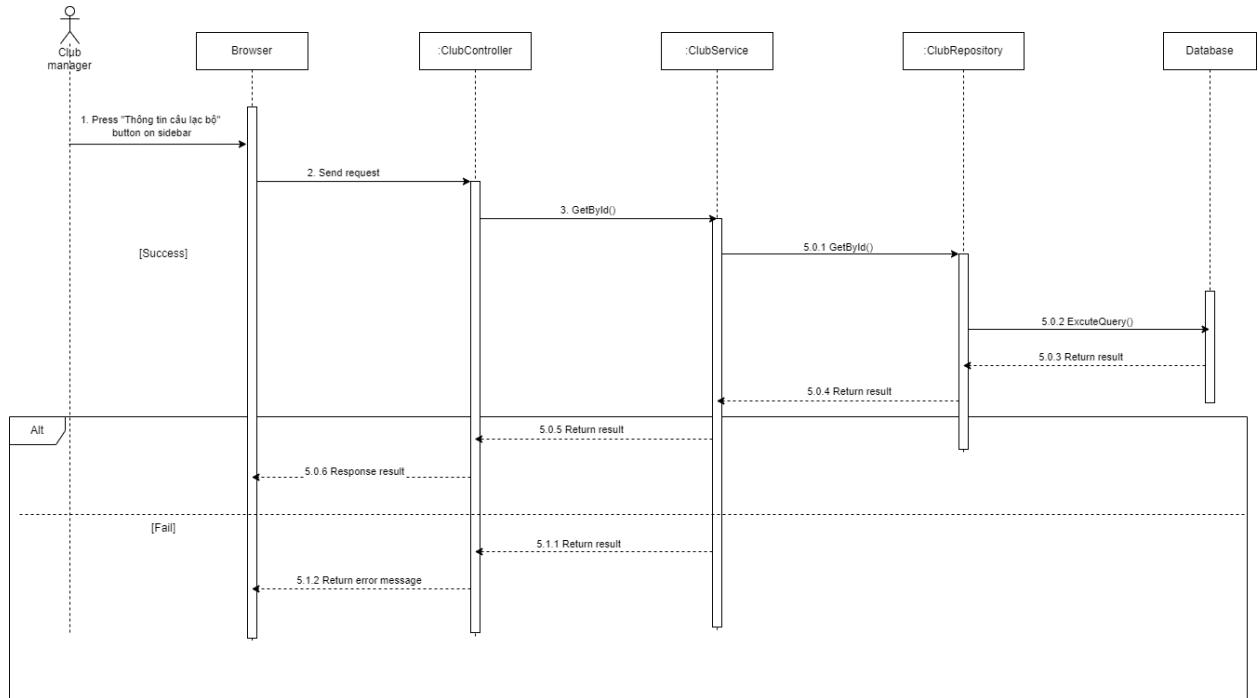


Figure 119. View detail club Sequence Diagram

3.4.9 Create a match

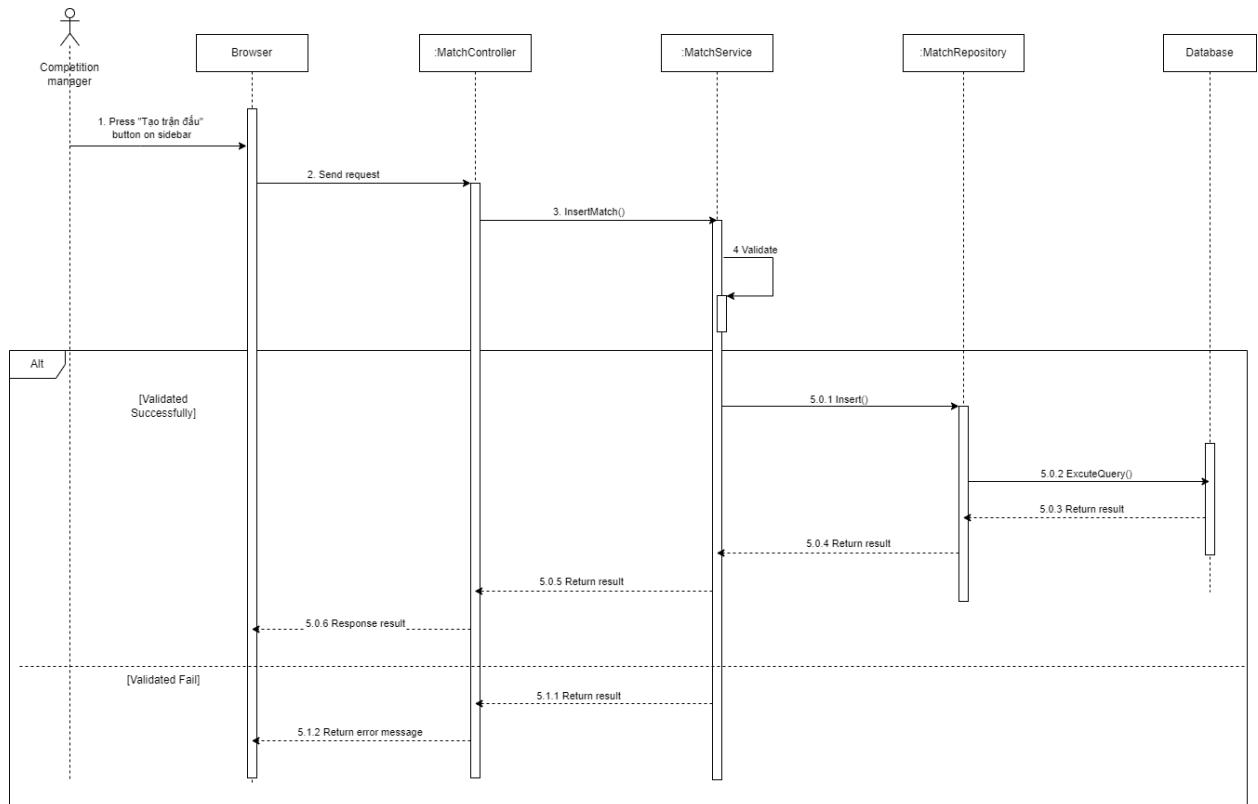


Figure 120. Create a match

3.5 State Diagram

References: [UniCEC State Diagram](#)

3.5.1 Competition & Event State Diagram

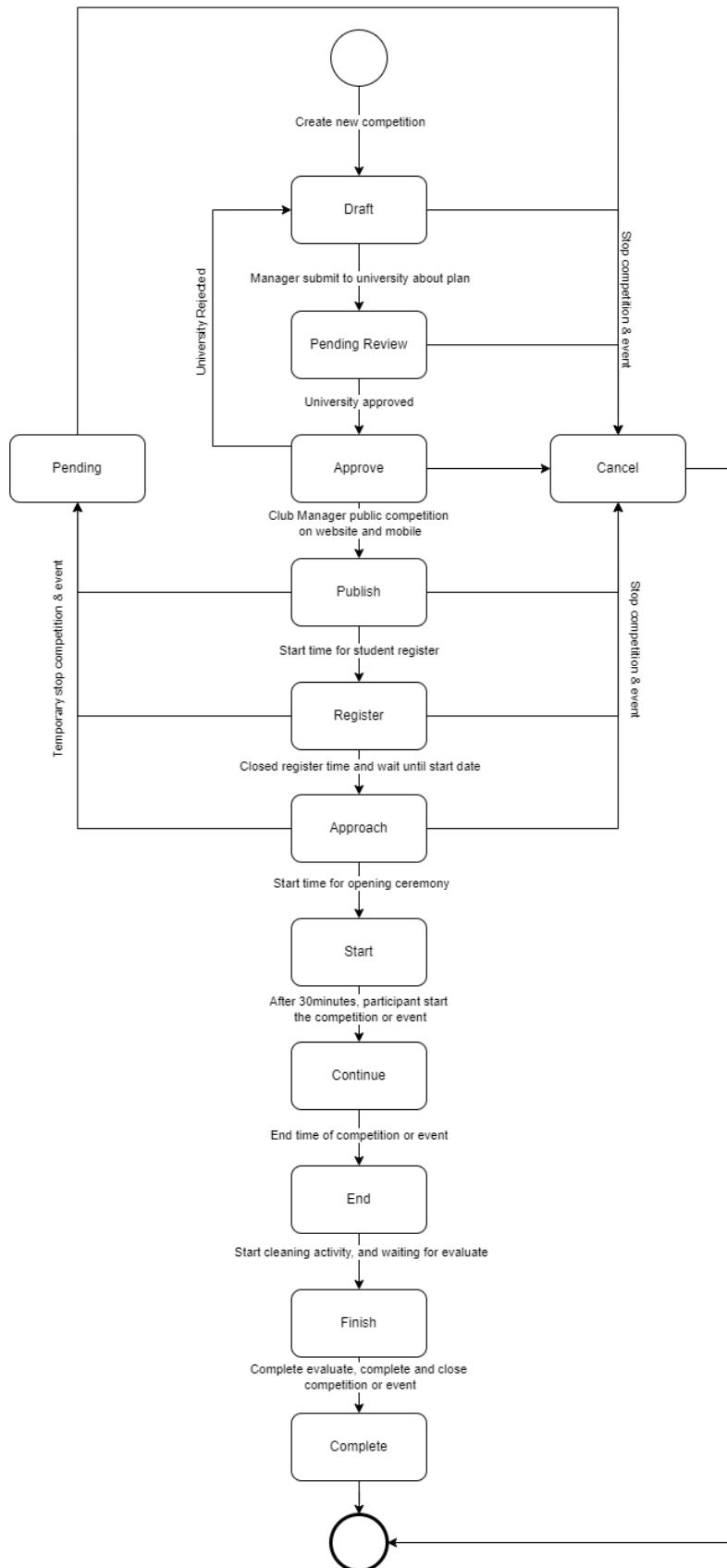


Figure 121. Competition & Event State Diagram

State	Description
Draft	After create new competition or event
Pending Review	Waiting for University Admin approve to publish
Approve	University Admin approve to publish
Publish	Everyone can view competition or event
Register	In a registration process to participate in competition or event
Approach	Waiting time to start time of competition or event
Start	Start Time of competition or event
Continue	Competition or event is in process
End	End Time of competition or event
Finish	Finish competition or event after cleaning
Complete	Close completely competition or event after show result, evaluation
Pending	Competition or event is in pending, waiting for comeback
Canceling	Competition or event is in cancel, it will not organize

Table 181. Competition & Event State Diagram

3.5.2 Activity State Diagram

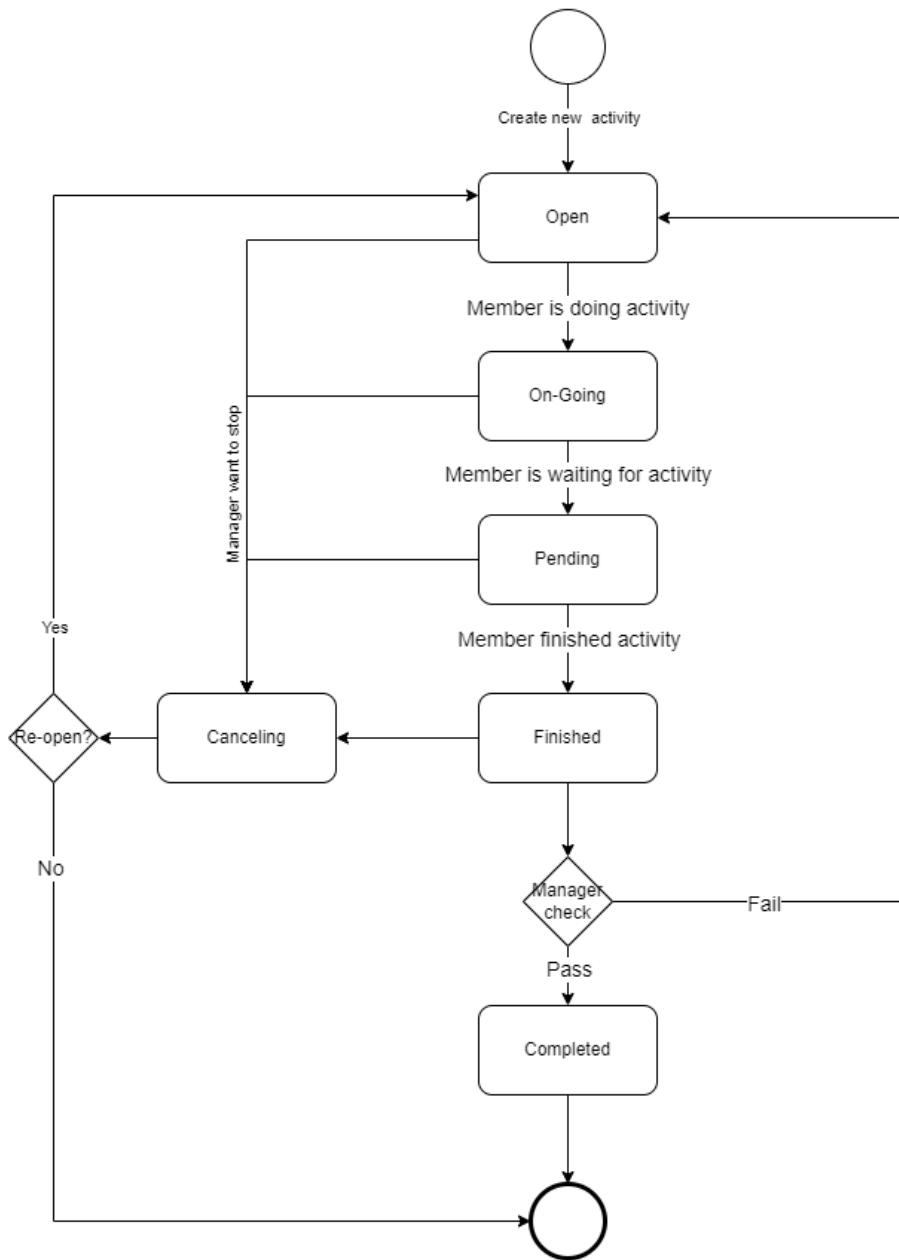


Figure 122. Activity State Diagram

State	Description
Open	After create, activity is in open status, waiting to do
On-Going	Activity is in process
Pending	Activity is pending, waiting for more information to comeback

Finished	Activity is done, waiting for Club Manager checking
Canceling	Activity is canceled, it will not be done
Complete	Club Manager is checked and complete activity

Table 182. Activity State Diagram

3.5.3 Competition Round State Diagram

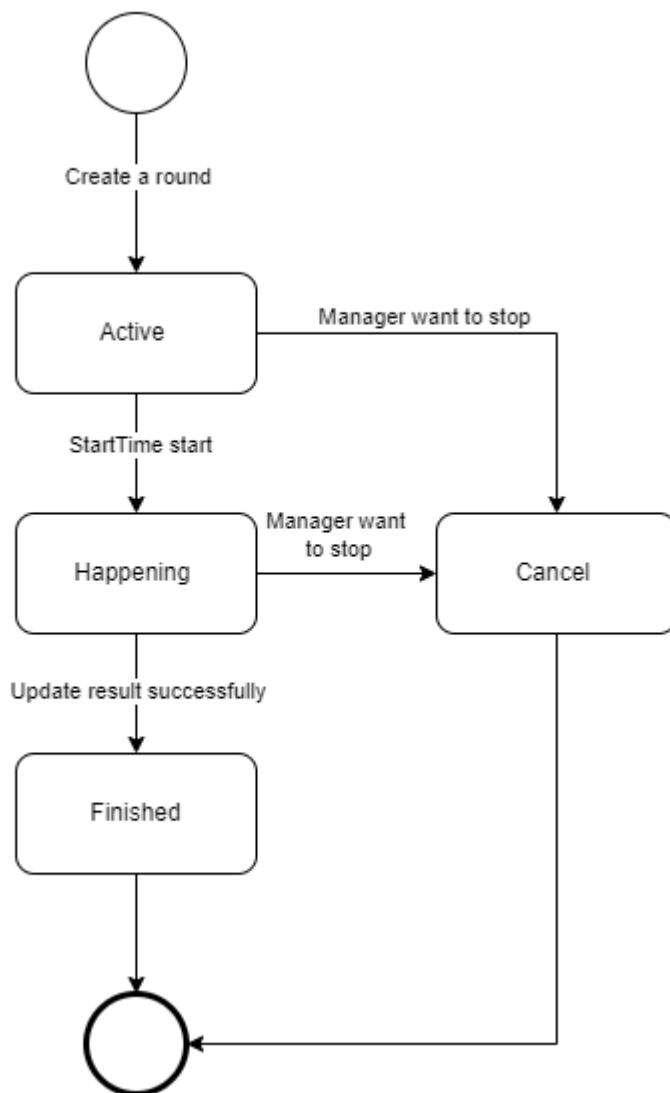


Figure 123. Competition Round State Diagram

State	Description
Active	Round is public

Happening	Round is in process
Finish	End time of round
Cancel	Round will not organize

Table 183 Competition Round State Diagram.

3.5.4 Team State Diagram

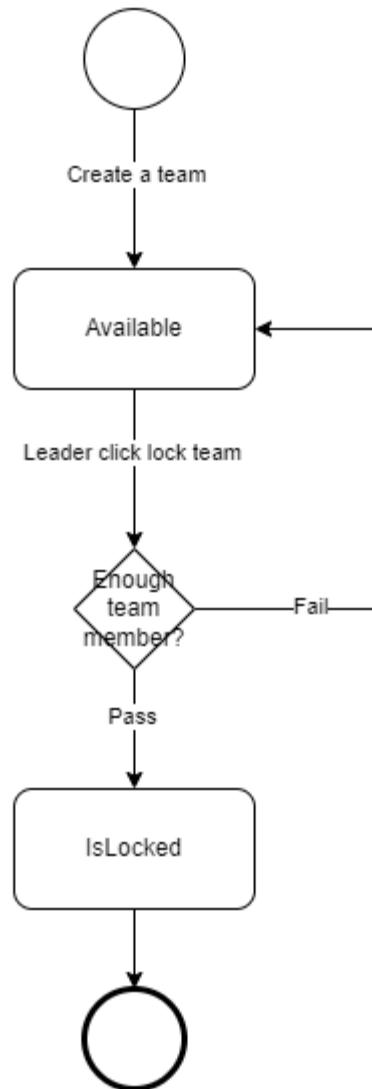


Figure 124. Team State Diagram

State	Description
Available	Team is not enough member and participant can participate in team

IsLocked	Team is locked with enough member and will be participate in competition
----------	--

Table 184. Team State Diagram

3.5.5 Match State Diagram

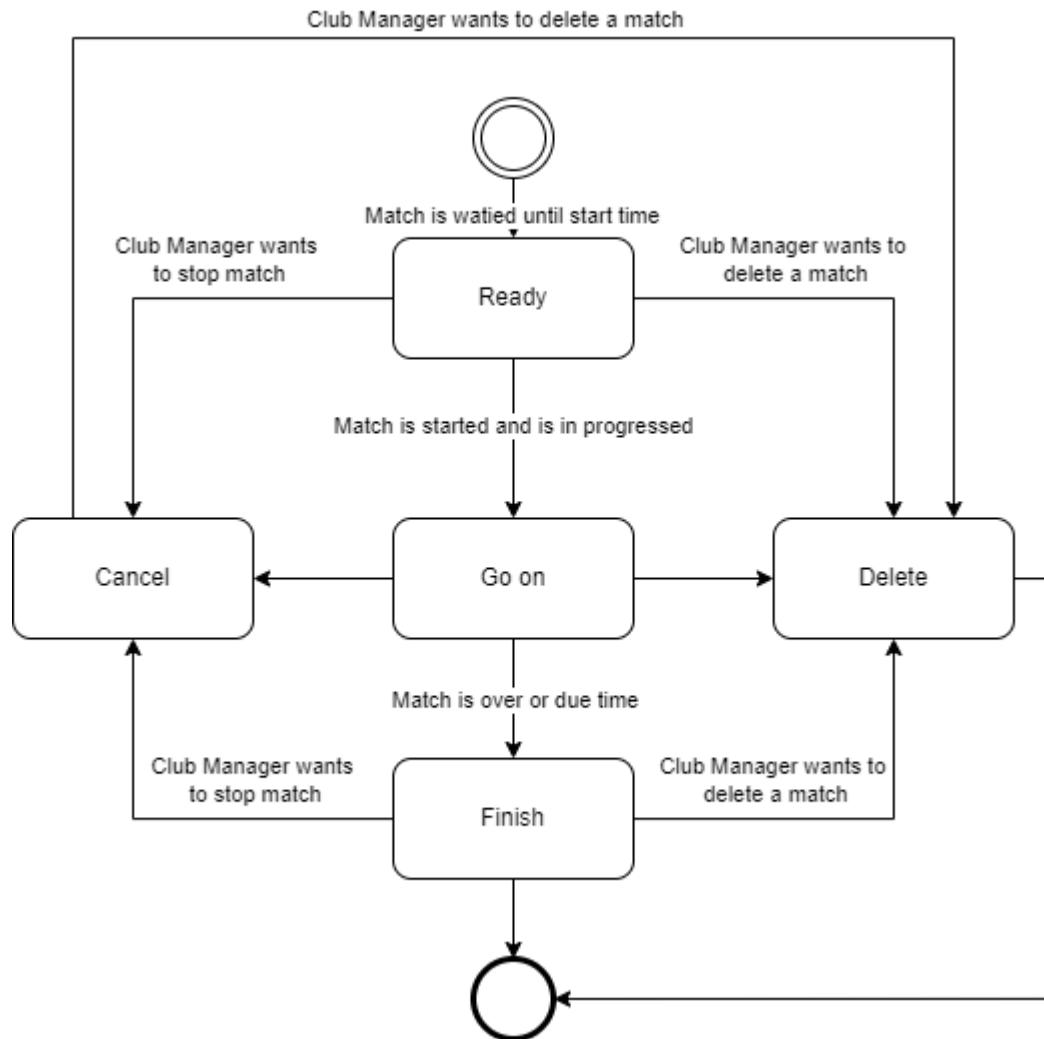


Figure 125. Match State Diagram

State	Description
Ready	Match is ready to assign a team to this match and wait for start time
Go on	Match is in start time and on-going
Finish	End time of match
Cancel	Match will not organize

Delete	Match is deleted
--------	------------------

3.6 Activity Diagram

3.6.1 Update status an Activity Diagram

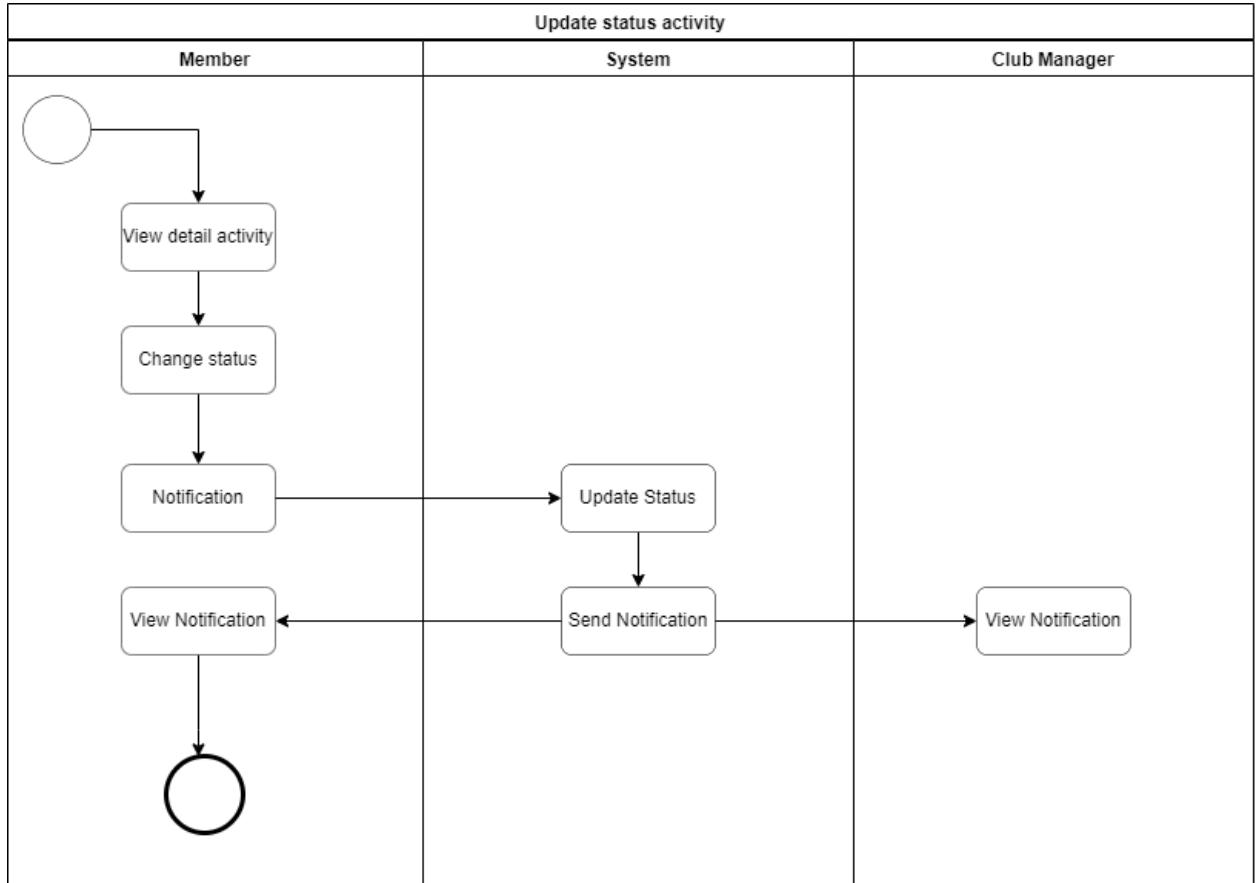


Figure 126. Update status an Activity Diagram

3.6.2 Create new team activity diagram

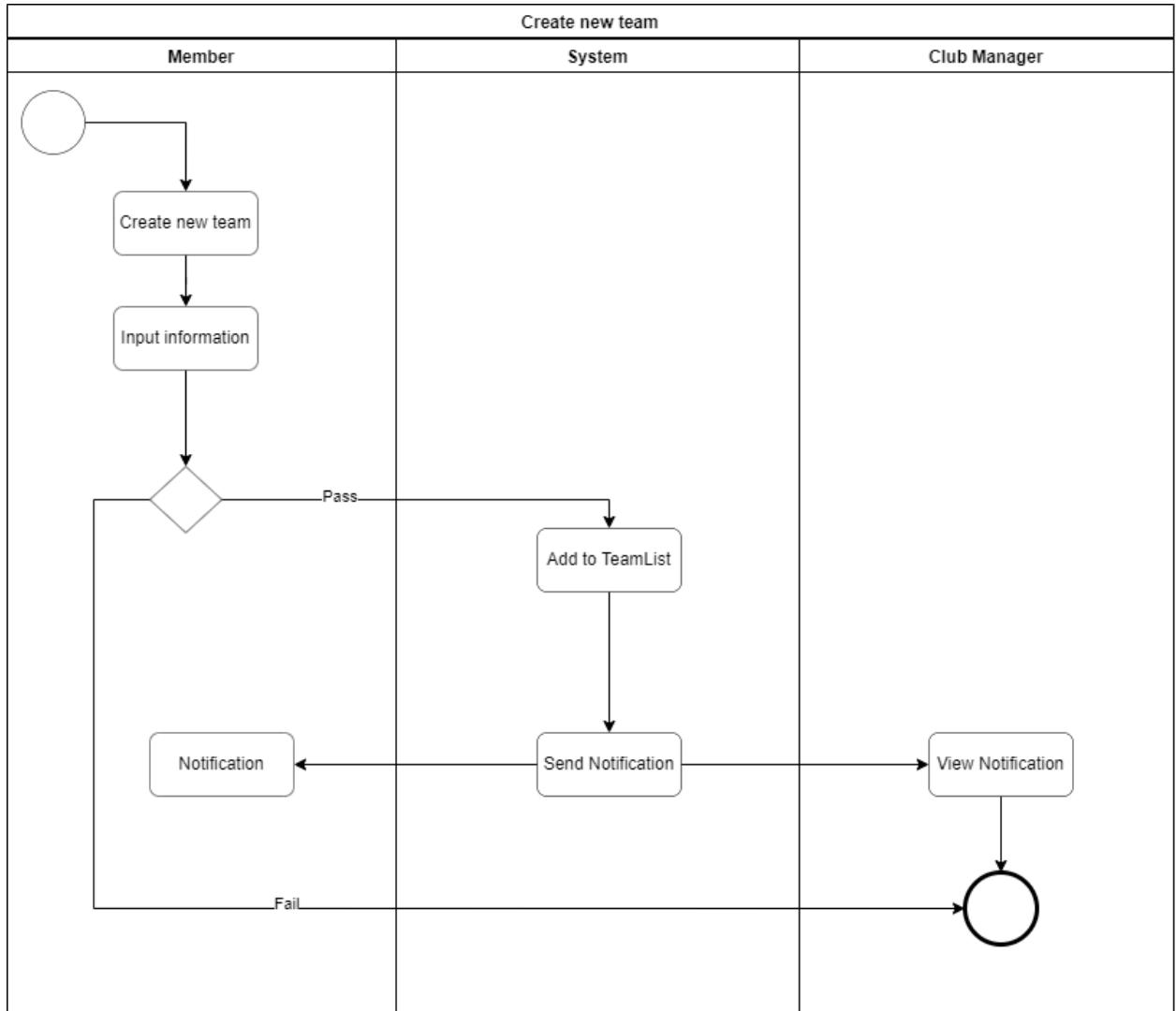


Figure 127. Create new team activity diagram

3.6.3 Participate in a team activity diagram

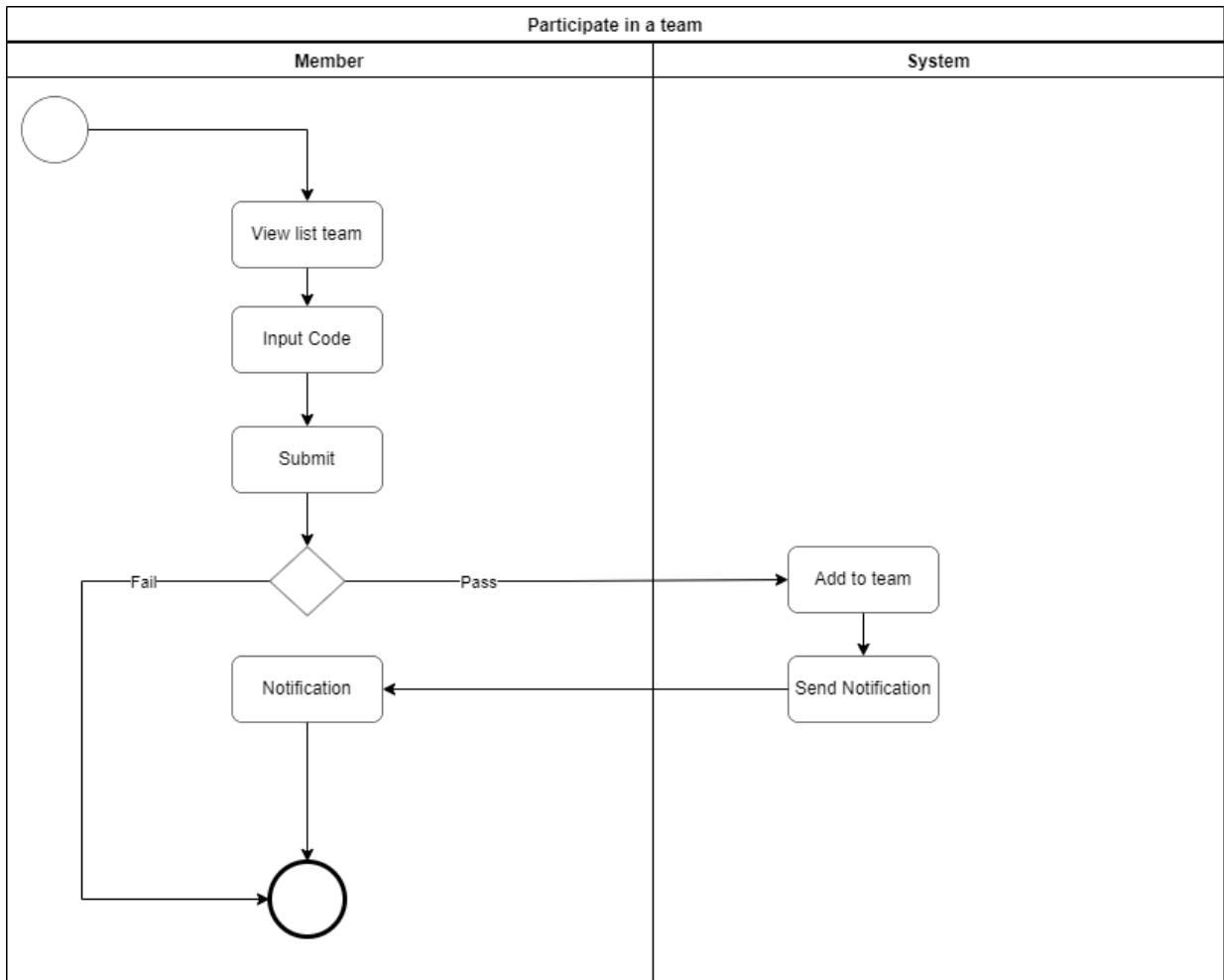


Figure 128. Participate in a team activity diagram

3.6.4 Lock a team activity diagram

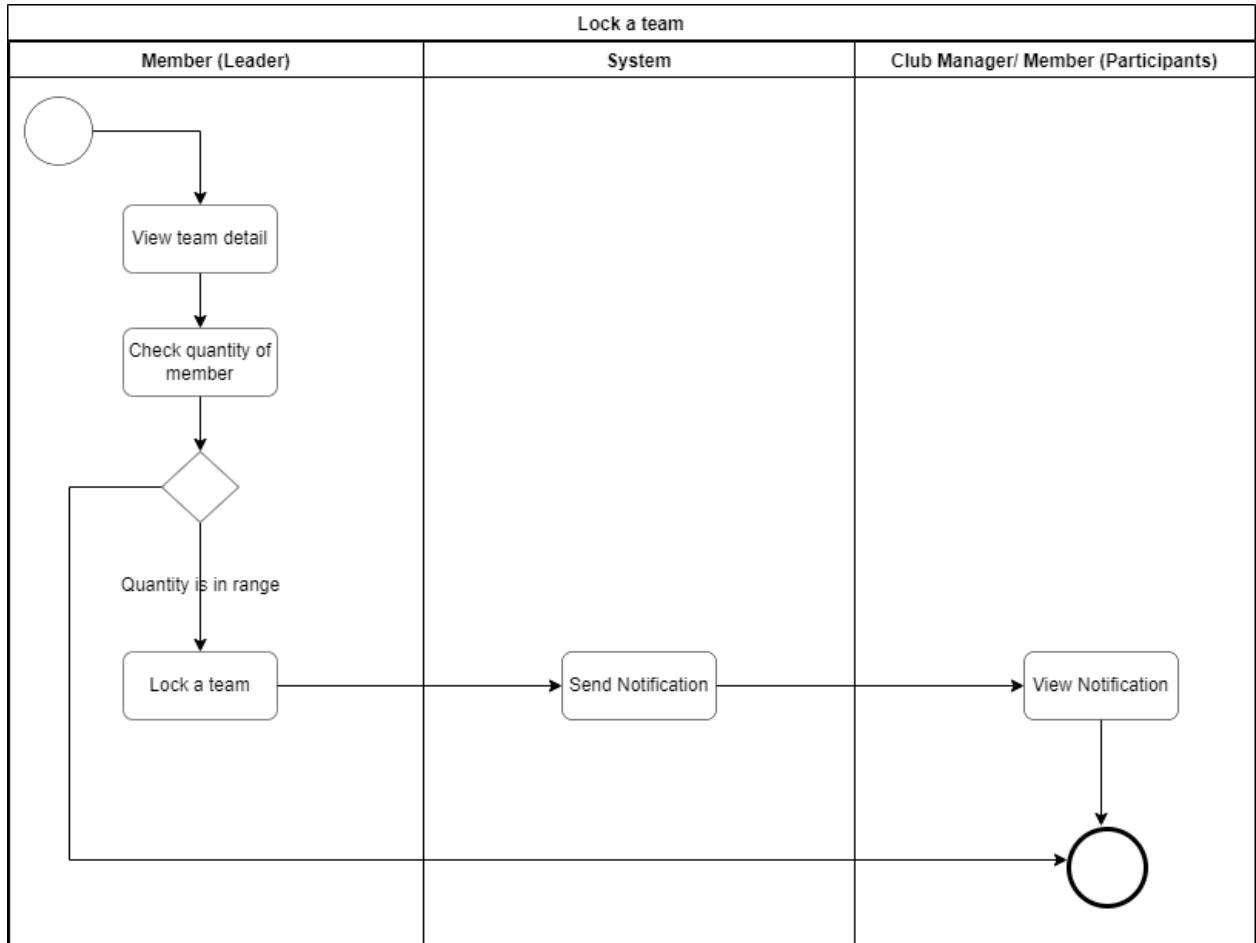


Figure 129. Lock a team activity diagram

3.6.5 Update status competition & event activity diagram

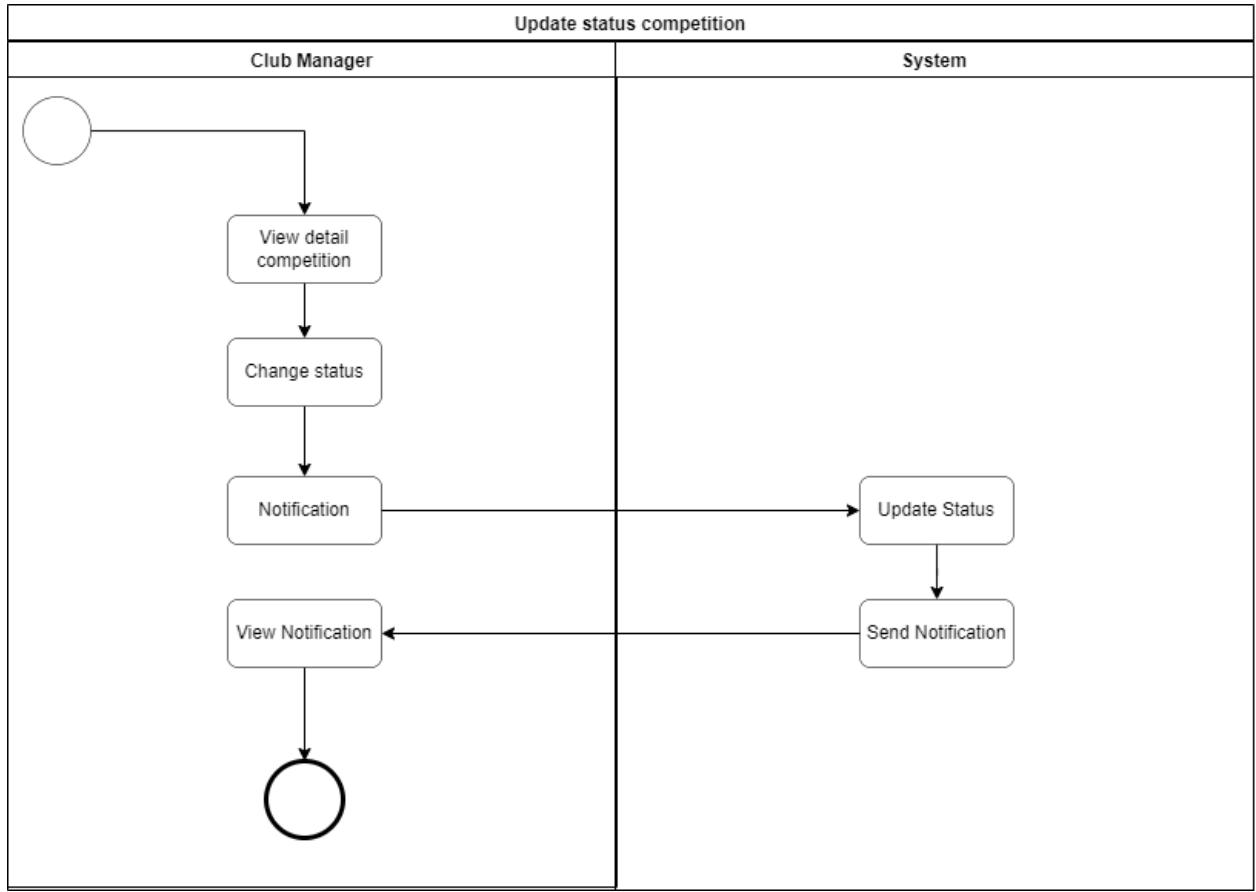


Figure 130. Update status competition & event activity diagram

4. Data & Database Design

4.1 Database Design

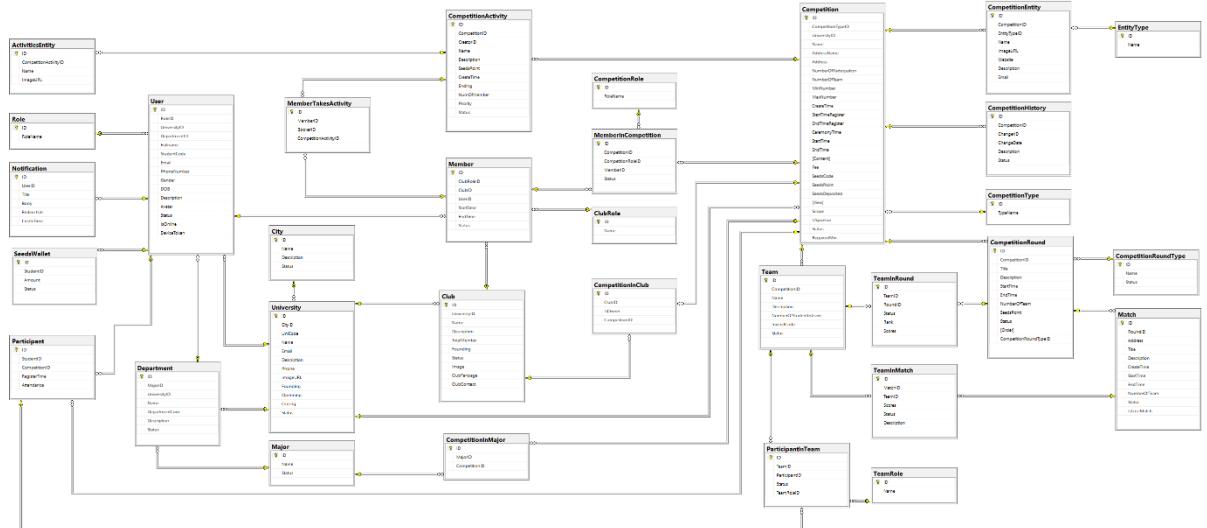


Figure 131. Database Diagram

4.2 Data File Design

4.2.1 ActivitiesEntity

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
CompetitionActivityID	int			FK
Name	nvarchar(255)			
ImageURL	nvarchar(500)			

Table 185. ActivitiesEntity Table

4.2.2 City

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
Name	nvarchar(50)			
Description	nvarchar(500)			
Status	bit			

Table 186. City Table

4.2.3 Club

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
UniversityID	int			FK
Name	nvarchar(50)			
Description	nvarchar(500)			
TotalMember	int			
Founding	datetime			
Status	bit			
Image	varchar(500)		x	
ClubFanpage	varchar(100)		x	
ClubContact	varchar(50)		x	

Table 187. Club Table

4.2.4 ClubRole

Field name	Type	Unique	Allow Nulls	PK/FK

ID	int			PK
Name	nvarchar(50)			

Table 188. ClubRole Table

4.2.5 Competition

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
CompetitionTypeID	int			FK
UniversityID	int			FK
Name	nvarchar(500)			
AddressName	nvarchar(100)			
Address	nvarchar(255)			
NumberOfParticipation	int			
NumberOfTeam	int		x	
RequiredMin	int			
MinNumber	int		x	
MaxNumber	int		x	
CreatTime	datetime			
StartTimeRegister	datetime			
EndTimeRegister	datetime			
CeremonyTime	datetime			
StartTime	datetime			
EndTime	datetime			
Content	nvarchar(MAX)			
Fee	int			
SeedsCode	nvarchar(50)			
SeedsPoint	float			
SeedsDeposited	float			
View	int			
Scope	int			
IsSponsor	bit			
Status	int			

Table 189. Competition Table

4.2.6 CompetitionActivity

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
CompetitionID	int			FK
CreatorID	int			
Name	nvarchar(50)			

Description	nvarchar(500)		x	
SeedsPoint	float			
CreateTime	datetime			
Ending	datetime			
NumberOfMember	int			
Priority	int			
Status	int			

Table 190. CompetitionActivity Table

4.2.7 CompetitionEntity

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
CompetitionID	int			FK
EntityTypeID	int			FK
Name	nvarchar(255)			
ImageURL	varchar(500)			
Website	nvarchar(255)		x	
Description	nvarchar(500)		x	
Email	nvarchar(255)		x	

Table 191. CompetitionEntity Table

4.2.8 CompetitionHistory

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
CompetitionID	int			FK
ChangeID	int		x	
ChangeDate	datetime			
Description	nvarchar(255)		x	
Status	int			

Table 192. CompetitionHistory Table

4.2.9 CompetitionInClub

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
ClubID	int			FK
IsOwner	bit			
CompetitionID	int			FK

Table 193. CompetitionInClub Table

4.2.10 CompetitionInMajor

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
MajorID	int			FK
CompetitionID	int			FK

Table 194. CompetitionInMajor Table

4.2.11 CompetitionInRole

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
RoleName	nvarchar(50)			

Table 195. CompetitionInRole Table

4.2.12 CompetitionInRound

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
CompetitionID	int			FK
Title	nvarchar(100)			
Description	nvarchar(500)			
StartTime	datetime			
EndTime	datetime			
NumberOfTeam	int			
SeedsPoint	int			
Status	int			

Table 196. CompetitionInRound Table

4.2.13 CompetitionType

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
TypeName	nvarchar(255)			

Table 197. CompetitionType Table

4.2.14 Department

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK

MajorID	int			FK
UniversityID	int			FK
Name	nvarchar(100)			
DepartmentCode	varchar(20)			
Description	nvarchar(500)			
Status	bit			

Table 198. Department Table

4.2.15 EntityType

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
Name	nvarchar(255)			

Table 199. EntityType Table

4.2.16 Major

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
Name	nvarchar(50)			
Status	bit			

Table 200. Major Table

4.2.17 Member

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
ClubRoleID	int			FK
ClubID	int			FK
UserID	int			FK
StartTime	datetime			
EndTime	datetime		x	
Status	bit			

Table 201. Member Table

4.2.18 MemberInCompetition

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
CompetitionID	int			FK
CompetitionRoleID	int			FK
MemberID	int			FK

Status	bit			
--------	-----	--	--	--

Table 202. MemberInCompetition Table

4.2.19 MemberTakesActivity

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
MemberID	int			FK
BookerID	int			FK
CompetitionActivityID	int			FK

Table 203. MemberTakesActivity Table

4.2.20 Notification

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
UserID	int			FK
Title	nvarchar(100)			
Body	nvarchar(500)			
RedirectUrl	nvarchar(100)		x	
CreateTime	datetime			

Table 204. Notification Table

4.2.21 Participant

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
StudentID	int			FK
CompetitionID	int			FK
RegisterTime	datetime			
Attendance	bit			

Table 205. Participant Table

4.2.22 ParticipantInTeam

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
TeamID	int			FK
ParticipantID	int			FK
Status	bit			
TeamRoleID	int			FK

Table 206. ParticipantInTeam Table

4.2.23 Role

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
RoleName	varchar(50)		x	

Table 207. Role Table

4.2.24 SeedsWallet

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
StudentID	int			FK
Amount	float			
Status	bit			FK

Table 208. SeedsWallet Table

4.2.25 Team

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
CompetitionID	int			FK
Name	nvarchar(50)			
Description	nvarchar(100)			
NumberOfStudentInTeam	int			
InvitedCode	nvarchar(100)			
Status	bit			

Table 209. Team Table

4.2.26 TeamInRound

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
TeamID	int			FK
RoundID	int			FK
Status	bit			
Rank	int			
Scores	int			

Table 210. TeamInRound Table

4.2.27 TeamRole

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
RoleName	varchar(100)			

Table 211. TeamRole Table

4.2.28 University

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
CityID	int			FK
UniCode	varchar(20)			
Name	nvarchar(50)			
Email	nvarchar(100)			
Description	nvarchar(500)		x	
Phone	varchar(15)			
ImageURL	varchar(500)		x	
Founding	datetime			
Openning	varchar(5)			
Closing	varchar(5)			
Status	bit			

Table 212. University Table

4.2.29 User

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
RoleID	int			FK
UniversityID	int		x	
DepartmentID	int		x	
Fullname	nvarchar(50)			
StudentCode	varchar(20)		x	
Email	varchar(50)			
PhoneNumber	varchar(15)		x	
Gender	nvarchar(15)			
DOB	varchar(20)			
Closing	varchar(5)			
Description	nvarchar(500)		x	
Avatar	varchar(500)		x	
Status	int			

IsOnline	bit			
DeviceToken	varchar(255)		x	

Table 213. User Table

4.2.30 TeamInMatch

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
MatchID	int			FK
TeamID	int			FK
Scores	int			
Status	int			
Description	nvarchar(100)			

Table 214. TeamInMatch Table

4.2.31 Match

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
RoundID	int			FK
Address	nvarchar(200)			
Title	nvarchar(100)			
Description	nvarchar(500)			
CreateTime	datetime			
StartTime	datetime			
EndTime	datetime			
NumberOfTeam	int			
Status	int			
IsLoseMatch	bit		x	

Table 215. Match Table

4.2.32 Competition Round Type

Field name	Type	Unique	Allow Nulls	PK/FK
ID	int			PK
Name	nvarchar(100)			
Status	bit			

Table 216. Competition Round Type Table

V. Software Testing Documentation

1. Overall Description

1.1. Test Model

In UniCEC project, we apply Agile testing for many purposes:

- It establishes an environment that developers and customers can interact with each other in a rapid and flexible way.
- It can quickly adapt with rapid pace requirement changing.

1.2. Test Levels

There are some testing levels that is applied in UniCEC:

- Testing Levels: System Test, User Acceptance Test.
- Testing Types: Functional Testing, User Interface Testing,

2. Test Plan

2.1. Test Stages.

Type of Test	Stage of Test		
	Unit	System	Acceptance
Functional Testing		x	x
User Interface Testing			x

Table 89. Test Stages

2.2. Human Resources

Worker/Doer	Role	Specific Responsibilities/Comments
Nguyen Dinh Trung	Leader	Planning. Verify test deliverables.
Vu Lam Huy	Member	Execute test and report as planned.
Ta Minh Nhat	Member	Execute test and report as planned.
Nguyen Tien Anh	Member	Execute test and report as planned.

Table 90. Test Plan Human Resources

2.3. Test Deliverables

No.	Deliverables	Due Date
1	Test document	22/08/2022

Table 91. Test Deliverables

3. Test Cases & Test Reports

Testing Level	File Name
System Test	UniCEC_TestCase
User Acceptance Test	Acceptance Certificate

Table 92. Test Cases & Test Reports

VI. Release Package & User Guides

1. Deliverable Package

1.1. Source code & Documents

No.	Items	Sub-Items	Type	Version
Code Package				
1	UniCEC Backend	Web Service	New	1.0
2	UniCEC Frontend	<ul style="list-style-type: none"> • System Admin Application • University Admin Web Application • Club Manager Web Application • Member Mobile Application • Student Mobile Application • Participant Mobile Application 	New	1.0
Database				
1	Script	UniCEC.sql	Modify	N/A
Documents				
1	Project Introduction	Report1_ProjectIntroduction.docx		
2	Project Management Plan	Report2_ProjectManagementPlan.docx		
3	Software Requirement Specification	Report3_SystemRequirementSpecification.docx		
4	Software Design Document	Report4_SoftwareDesignDocument.docx		
5	Test Documentation	Report5_TestDocumentation.docx		
6	Software User Guides	Report6_SoftwareUserGuides.docx		
7	Final Project Report	Report7_FinalProjectReport.docx		

Table 93. Source Code & Documents

2. Installation Guides

2.1. System Requirements

2.1.1 Hardware Requirement

For Edge Device

Edge Device	Minimum Requirement	Recommended
CPU	Quad-core ARM® A57 @ 1.43 GHz	Quad-core ARM Cortex-A57 MP Core processor
GPU	128-core NVIDIA Maxwell™	NVIDIA Maxwell architecture with 128 NVIDIA CUDA® cores
Memory	2 GB 64-bit LPDDR4 25.6 GB/s	4 GB 64-bit LPDDR4, 1600MHz 25.6 GB/s
Storage	32 GB	32 GB
Camera	160 Degree FoV IR Camera	160 Degree FoV IR Camera
Connectivity	Wi-Fi (4 Mbps)	Wi-Fi (8Mbps)

Table 94. Edge Device Requirement

2.1.2 Software Requirement.

Component	Name and Version	Description
Operating System	Windows 10	Operating system for building production
DBMS	Postgres 12	Used to manage database
Environment	Java	Containerization environment
Web server	AWS Beanstalk	Server for production

Table 95. Software Requirement

2.2. Setup Files

- Unicec-scripts.sql: database script for system
- UnicecBE.zip: web API
- UnicecFE.zip: web application

2.3. Installation Instruction

- Setup and start a Windows OS (Windows 7/8/10 or Windows Server)
- Open Command Prompt

2.3.1 Setup environment

- a. Note.js
 1. Go to website: <https://nodejs.org/en/download/> and download the lastest version which suitable for your operating system.

The screenshot shows the Node.js Downloads page. At the top, there are navigation links: HOME, ABOUT, DOWNLOADS, DOCS, GET INVOLVED, SECURITY, CERTIFICATION, and NEWS. Below this, a section titled "Downloads" is shown. It highlights the "Latest LTS Version: 16.17.0 (includes npm 8.15.0)". A sub-section below says "Download the Node.js source code or a pre-built installer for your platform, and start developing today." There are two main sections: "LTS Recommended For Most Users" and "Current Latest Features". Under "LTS", there are links for "Windows Installer" (node-v16.17.0-x64.msi), "macOS Installer" (node-v16.17.0.pkg), and "Source Code" (node-v16.17.0.tar.gz). Under "Current", there are links for "Windows Installer (.msi)" (32-bit, 64-bit), "Windows Binary (.zip)" (32-bit, 64-bit), "macOS Installer (.pkg)" (64-bit / ARM64), "macOS Binary (.tar.gz)" (64-bit, ARM64), "Linux Binaries (x64)" (64-bit), "Linux Binaries (ARM)" (ARMv7, ARMv8), and "Source Code" (node-v16.17.0.tar.gz).

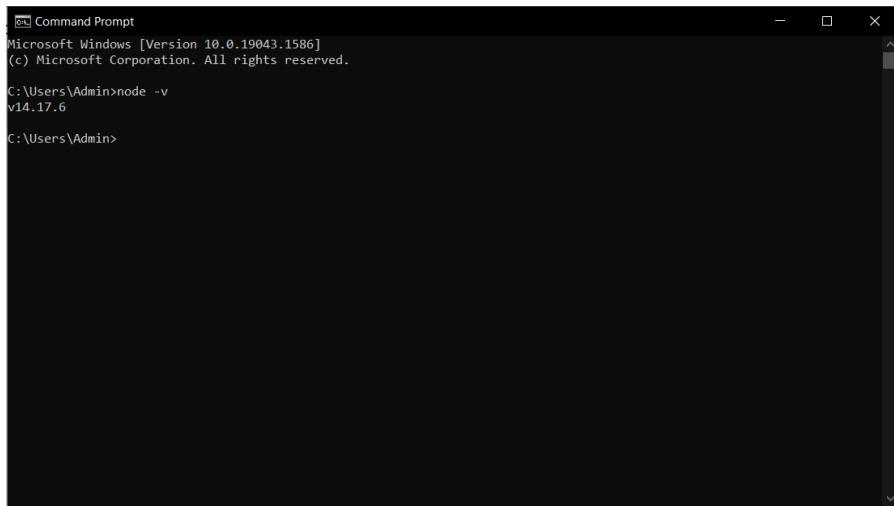
2. Start the Node Js downloaded setup file and go through install.



Completed the Node.js Setup Wizard



3. Open Command Prompt and check node version by run command “node -v”



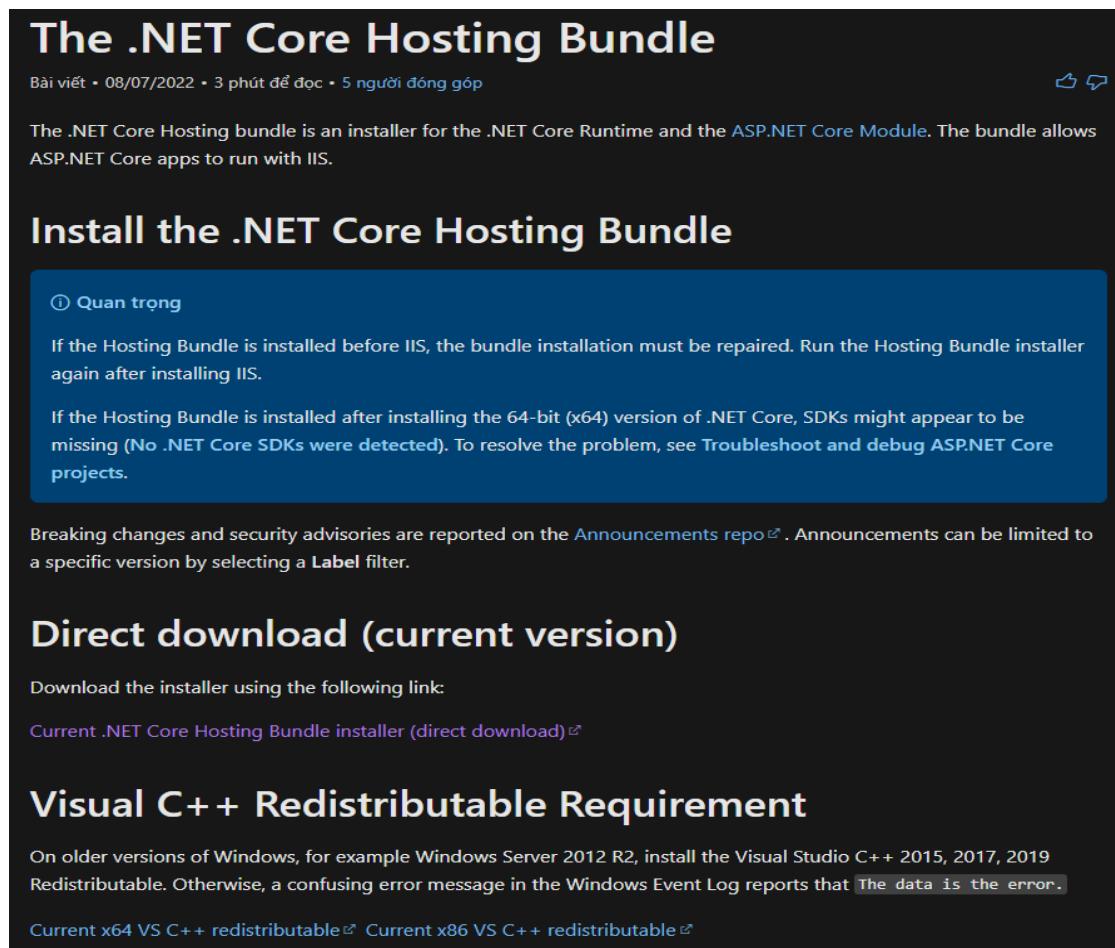
```
Command Prompt
Microsoft Windows [Version 10.0.19043.1586]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin>node -v
v14.17.6

C:\Users\Admin>
```

b. .Net core

1. Go to website "<https://docs.microsoft.com/vi-vn/aspnet/core/host-and-deploy/iis/hosting-bundle>" and download .Net core hosting installer.



The .NET Core Hosting Bundle

Bài viết • 08/07/2022 • 3 phút để đọc • 5 người đóng góp

The .NET Core Hosting bundle is an installer for the .NET Core Runtime and the ASP.NET Core Module. The bundle allows ASP.NET Core apps to run with IIS.

Install the .NET Core Hosting Bundle

ⓘ Quan trọng

If the Hosting Bundle is installed before IIS, the bundle installation must be repaired. Run the Hosting Bundle installer again after installing IIS.

If the Hosting Bundle is installed after installing the 64-bit (x64) version of .NET Core, SDKs might appear to be missing (No .NET Core SDKs were detected). To resolve the problem, see [Troubleshoot and debug ASP.NET Core projects](#).

Breaking changes and security advisories are reported on the [Announcements repo](#). Announcements can be limited to a specific version by selecting a [Label](#) filter.

Direct download (current version)

Download the installer using the following link:

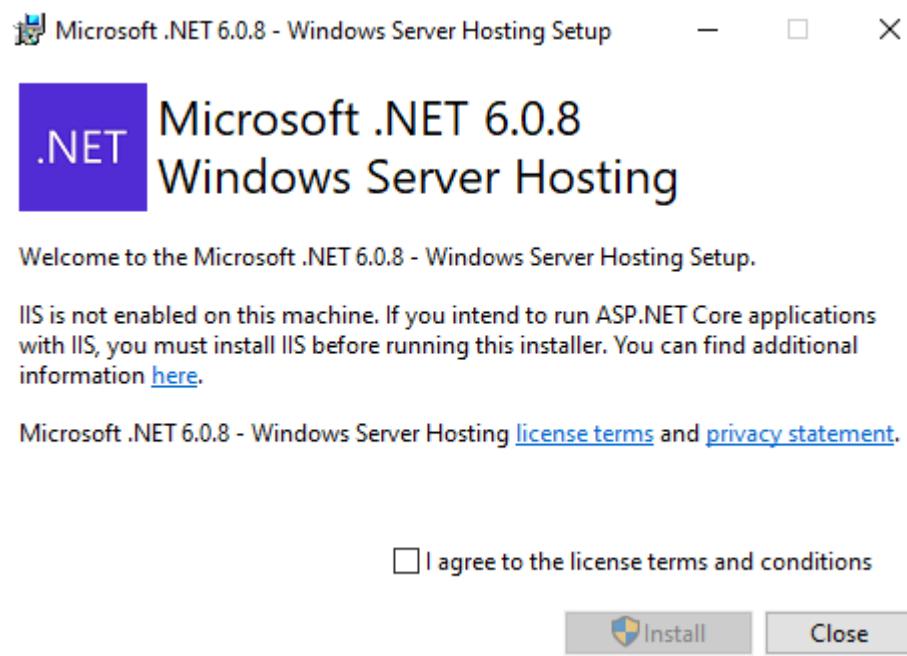
[Current .NET Core Hosting Bundle installer \(direct download\)](#)

Visual C++ Redistributable Requirement

On older versions of Windows, for example Windows Server 2012 R2, install the Visual Studio C++ 2015, 2017, 2019 Redistributable. Otherwise, a confusing error message in the Windows Event Log reports that [The data is the error](#).

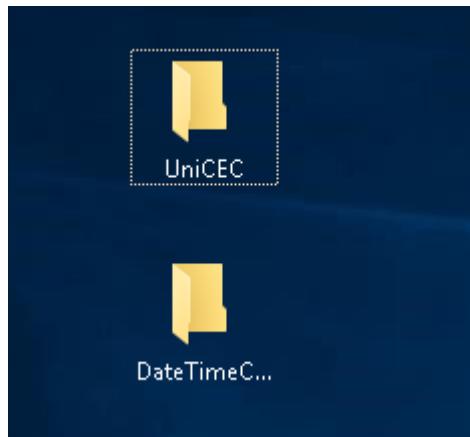
[Current x64 VS C++ redistributable](#) [Current x86 VS C++ redistributable](#)

2. Start .net hosting bundle downloaded setup file and go through install

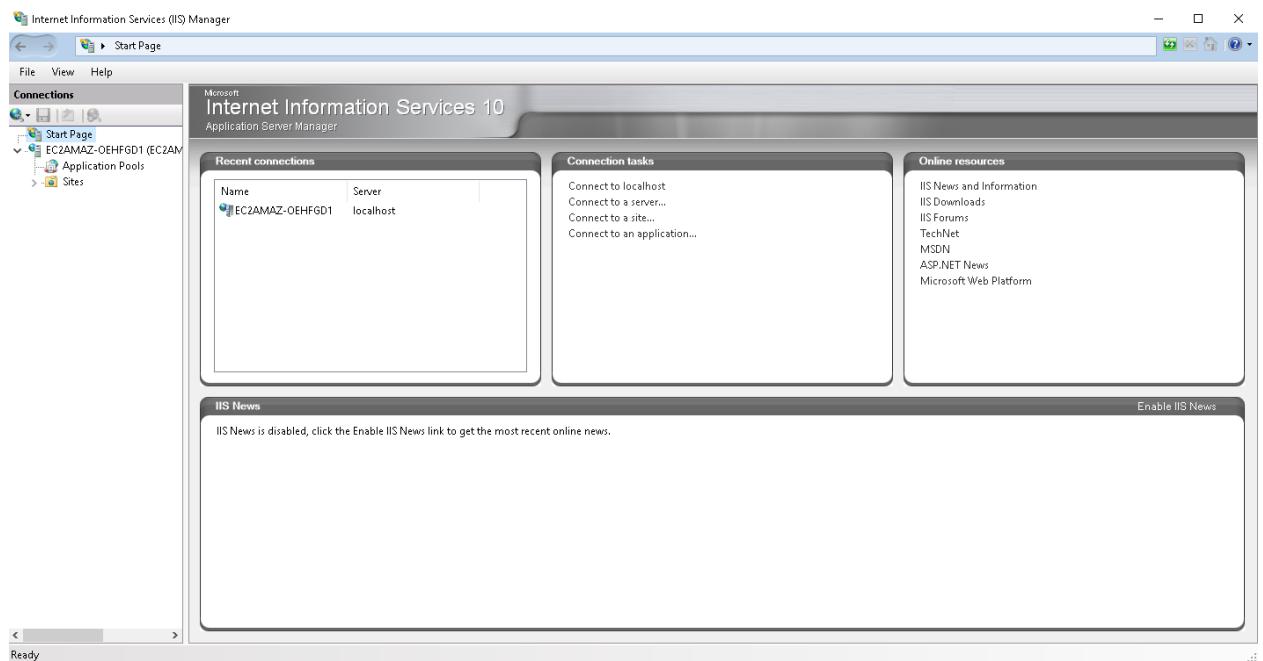


2.3.2 Backend deployment

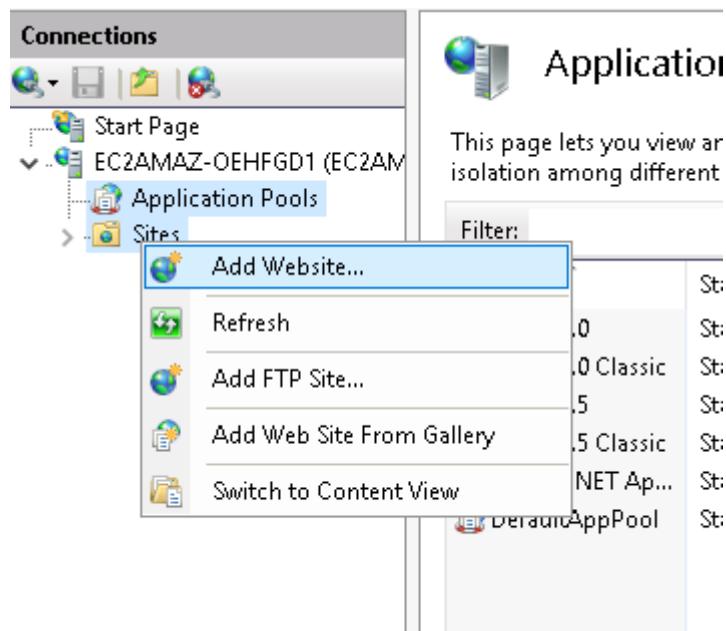
1. Download and Extract UnicecBE.zip



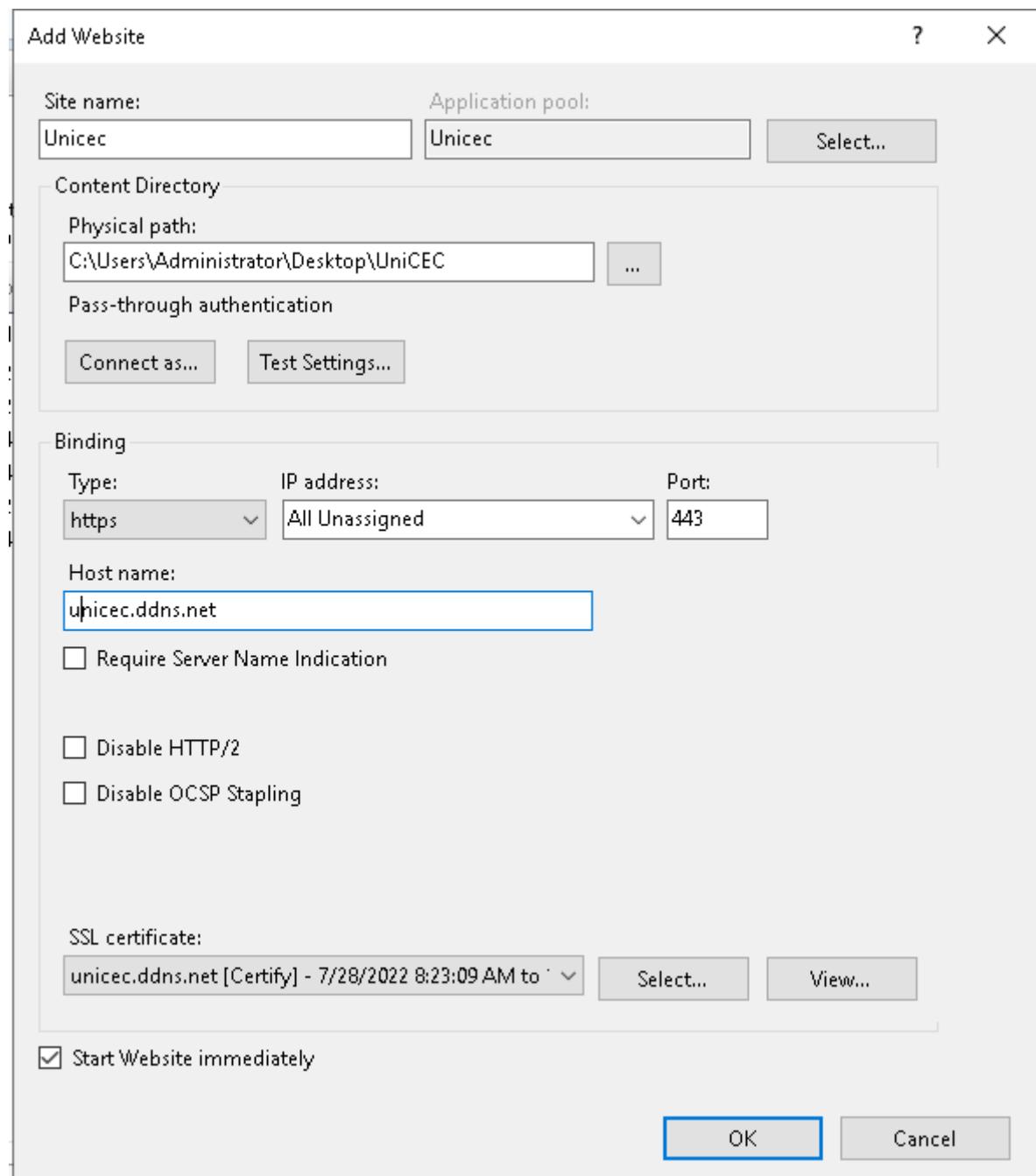
2. Open Internet Information Services (IIS) Manager



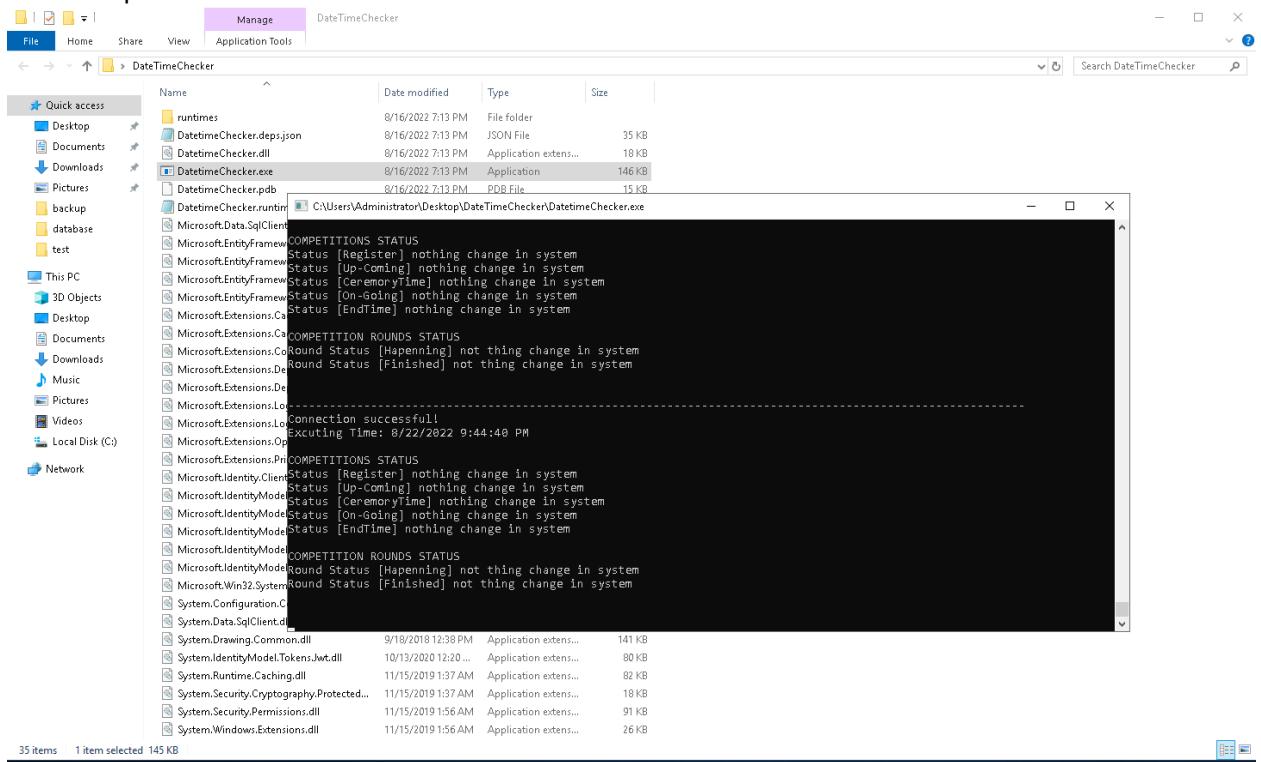
3. Right click on Sites and select Add Website



4. Name your site and select Physical path to folder UniCEC you just extracted and click OK.



5. Open folder DateTimeChecker and run DatetimeChecker.exe



2.3.3 Frontend deployment

1. Download and Extract UnicecFE.zip

	public	7/16/2022 1:40 AM	File folder
	src	8/18/2022 1:42 AM	File folder
	.env	7/5/2022 2:18 PM	ENV File 1 KB
	.eslintrc.js	6/15/2022 10:44 PM	JavaScript File 1 KB
	.gitignore	7/16/2022 1:40 AM	Text Document 1 KB
	.prettierrc	7/19/2021 4:46 PM	PRETTIERIGNORE ... 1 KB
	.prettierrc.json	4/20/2022 1:33 PM	JSON File 1 KB
	CHANGELOG.md	7/13/2021 12:48 PM	Markdown file 16 KB
	gulpfile.js	7/29/2022 12:10 AM	JavaScript File 3 KB
	ISSUE_TEMPLATE.md	4/20/2022 1:33 PM	Markdown file 2 KB
	jsconfig.json	5/28/2020 6:47 PM	JSON File 1 KB
	package.json	7/16/2022 1:38 AM	JSON File 4 KB
	package-lock.json	7/16/2022 1:38 AM	JSON File 875 KB

2. Open Command Prompt in folder, type “npm install” and press Enter

```
PS C:\Users\PC\Desktop\UNICS_FE> npm install -
```

3. Continue type “npm start” and press Enter

```
PS C:\Users\PC\Desktop\UNICS_FE> npm start
> unicec@1.2.1 start C:\Users\PC\Desktop\UNICS_FE
> react-scripts start
```

Compiled successfully!

You can now view unicec in the browser.

<http://localhost:3000>

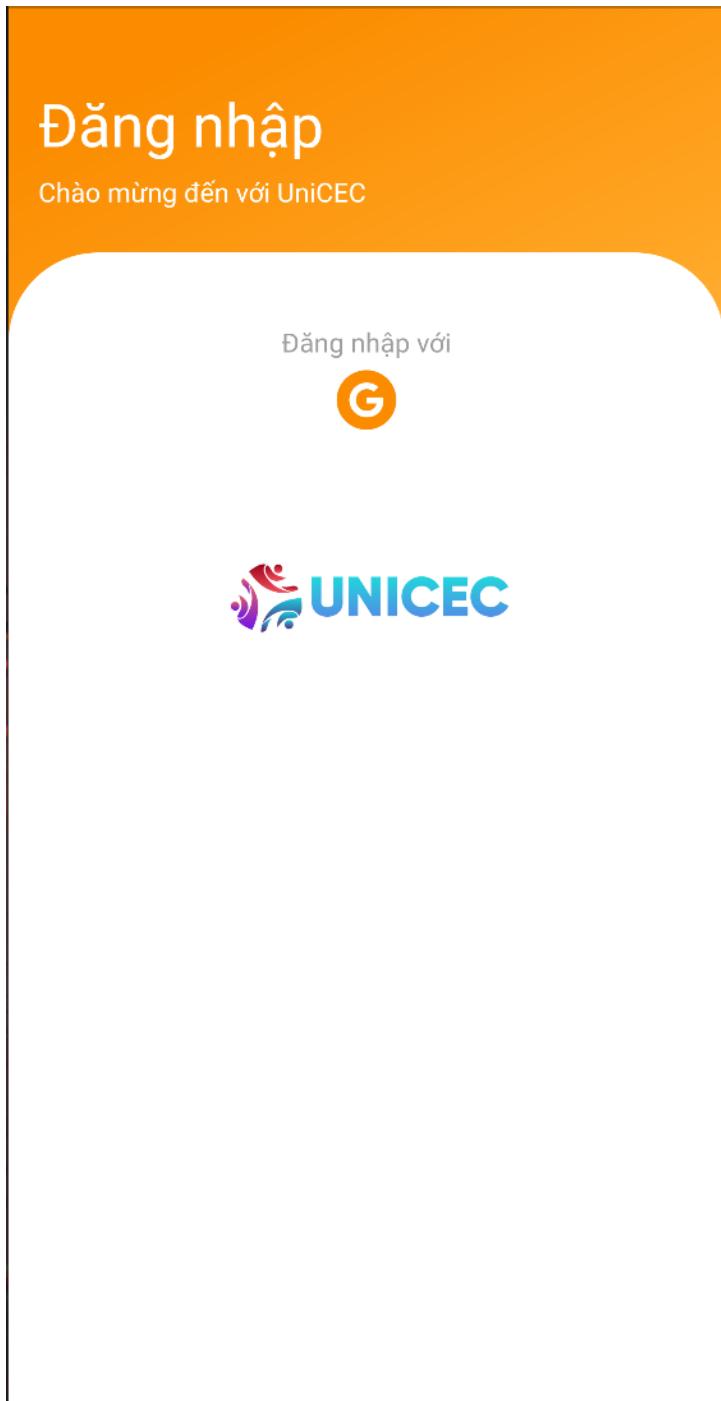
Note that the development build is not optimized.
To create a production build, use `npm run build`.

3. User Manual

3.1. Mobile Application

3.1.1. Student and Member

3.1.1.1 Log in



3.1.1.2 View Club Information

Câu lạc bộ



Club UniCEC

Ngày thành lập: **2022-05-16**

Giới thiệu
Trung's Club

Thông tin cá nhân

 Nguyen Van Hieu (K14 HCM) Thành Viên

Xem danh sách thành viên của CLB

Danh sách thành viên

Các cuộc thi và sự kiện câu lạc bộ hiện có

Danh sách Cuộc Thi & Sự Kiện

Thông tin liên hệ

 <https://www.facebook.com/SotaychongFA>

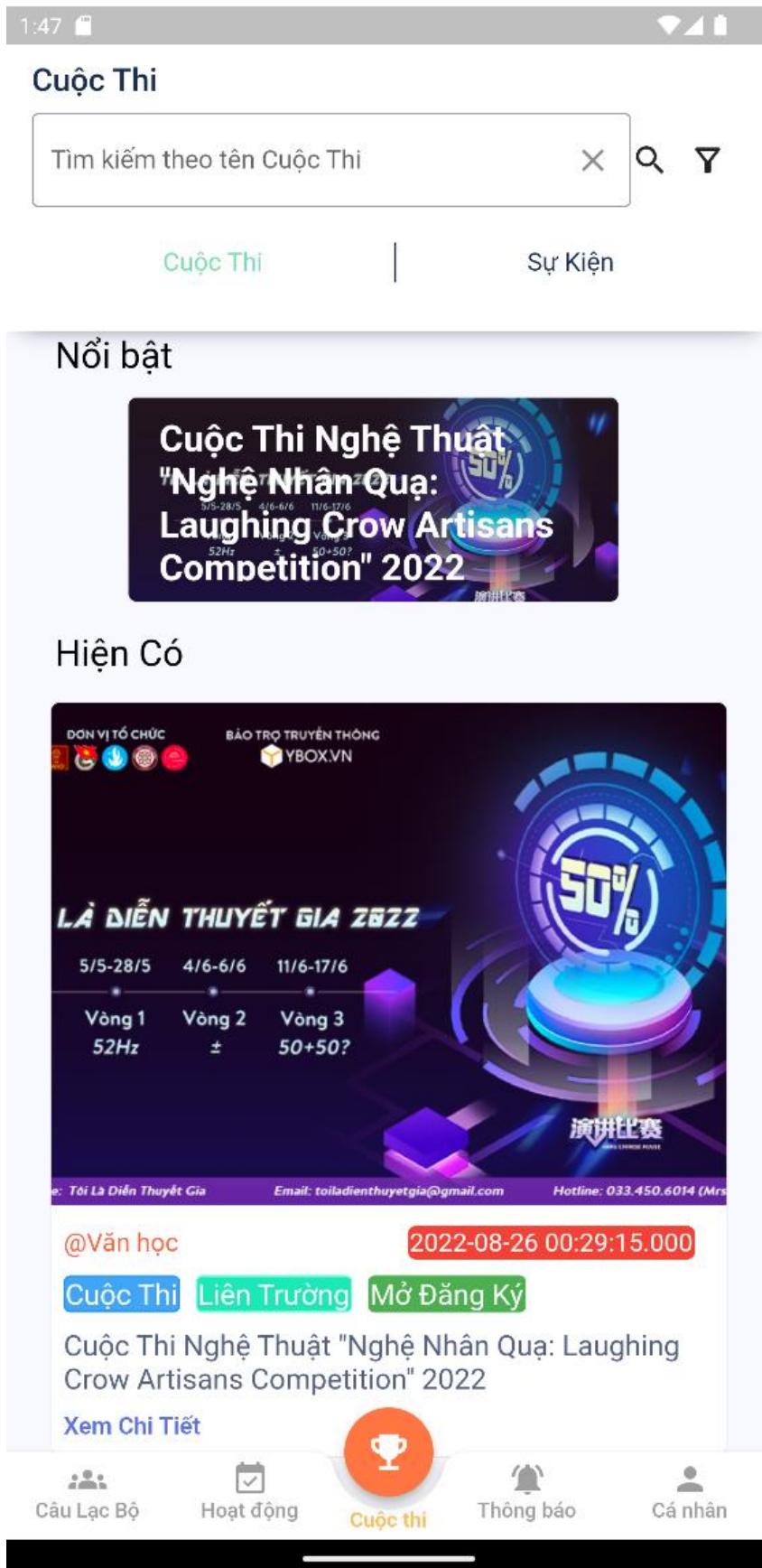
 trungndse140309@fpt.edu.vn

Chọn câu lạc bộ khác



Câu Lạc Bộ Hoạt động Cuộc thi Thông báo Cá nhân

3.1.1.3 View Competition or Event List



3.1.1.4 View Club Competition or Event Detail

The screenshot shows a mobile application interface for viewing event details. At the top, there is a search bar with the placeholder "Tim kiem theo tên Sự Kiện" (Search by Event Name) and a magnifying glass icon. Below the search bar, there are two tabs: "Cuộc Thi" (Competition) and "Sự Kiện" (Event). The "Cuộc Thi" tab is selected, indicated by a blue border.

Nổi bật (Highlight):

Triển lãm Du học & Học Bổng Quốc tế 2022

TRIỂN LÃM DU HỌC & HỌC BỔNG QUỐC TẾ 2022

01/10/2022 - KS Rex
02/10/2022 - KS Hilton

HỌC ĐỒNG
ĐỊNH CƯ
VĂN LÀM
THỰC TẬP

MIỄN PHÍ VÀO CỬA

Hiện Có

**LÂM
ĐỌC & HỌC BỔNG
QUỐC TẾ 2022**

01/10/2022 - KS Rex
02/10/2022 - KS Hilton

@Du lịch **2022-09-01 13:40:44.000**

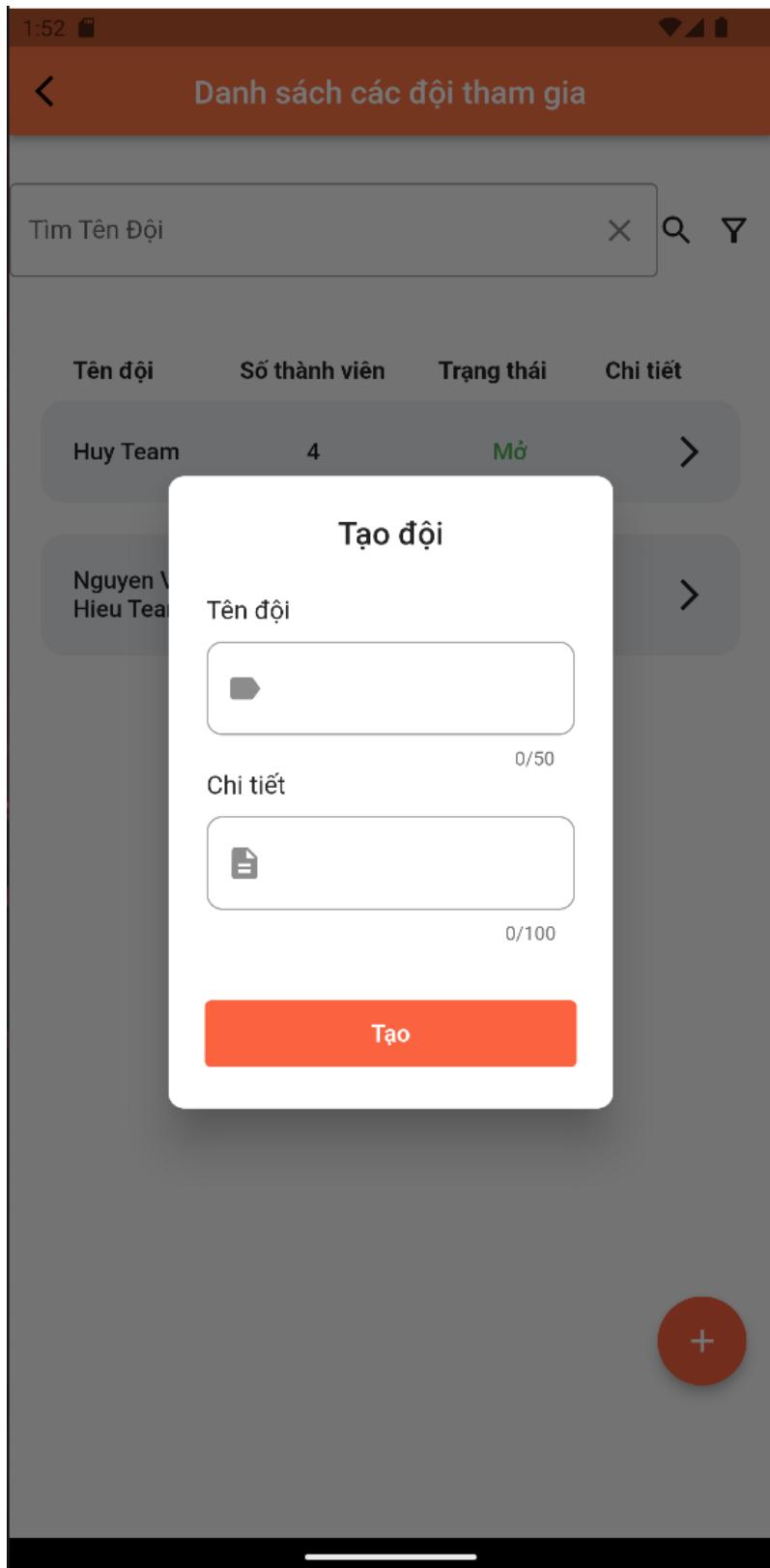
Sự Kiện **Liên Trường** **Mở Đăng Ký**

Triển lãm Du học & Học bổng Quốc tế 2022

Xem Chi Tiết

Câu Lạc Bộ **Hoạt động** **Cuộc thi** **Thông báo** **Cá nhân**

3.1.1.5 Create Team



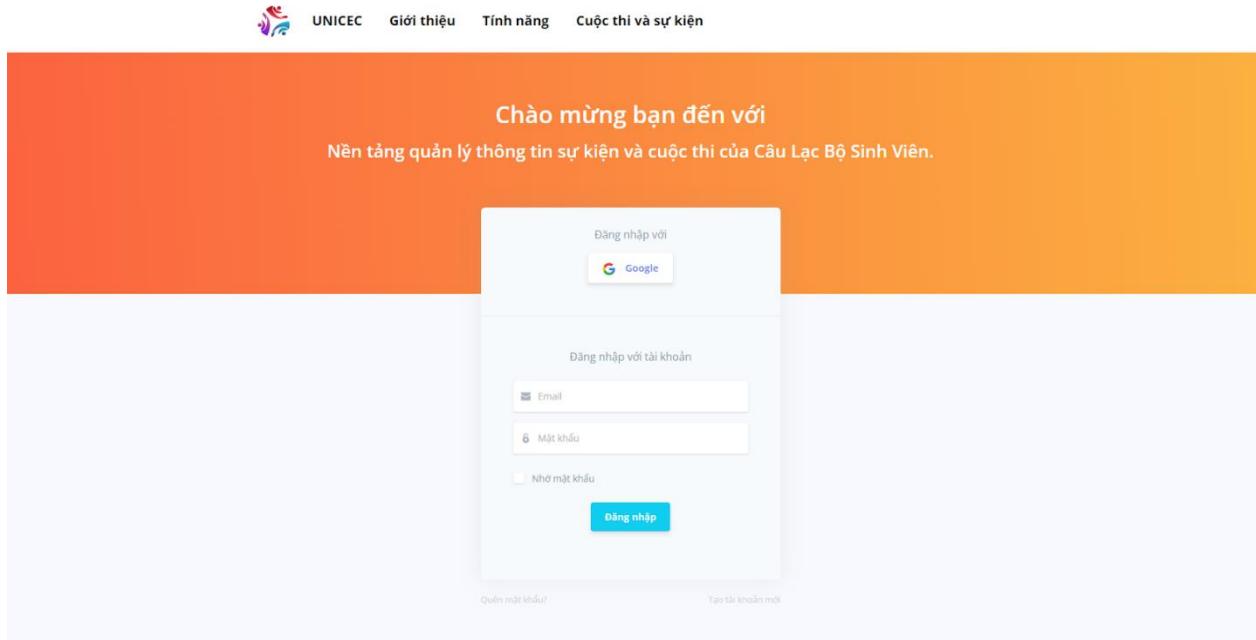
3.1.1.6 View Profile



3.2. Web Application

3.2.1. Club Manager

3.2.1.1 Login



3.2.1.2 View Club Information

The screenshot displays the Club Manager dashboard for the 'Club Unicec' club. The top navigation bar includes the UNICEC logo, user profile 'Nguyễn Đình Trung', and the 'FPT' logo. On the left, a sidebar menu lists 'Câu lạc bộ' (Club), 'Thông tin câu lạc bộ' (Club information), 'Hoạt động' (Activities), 'Tạo Hoạt động' (Create Activity), 'Thành viên' (Members), and 'Cuộc thi và sự kiện' (Competitions and Events). Below this is a 'LIÊN HỆ' (Contact) section with links for 'Đội ngũ phát triển', 'Điều khoản dịch vụ', 'Chính sách bảo mật', and 'Liên hệ'. The main content area features a summary card for 'Club Unicec' with the URL 'trungndsc140309@fpt.edu.vn'. It shows statistics: 'GIỚI THIỆU' (Trung's Club), 'THÀNH VIÊN' (21 members, 0 online), 'SỰ KIỆN VÀ CUỘC THI ĐANG TỔ CHỨC' (13 events/competitions), and 'HOẠT ĐỘNG ĐANG DIỄN RA' (0 ongoing activities). Below this are three detailed sections: 'Ban Quản Lý' (Management Board) listing members Nguyễn Đình Trung (Chủ Nhiệm), Lâm Hữu Khánh Phương (Phó Chủ Nhiệm), and Vũ Lâm Huy (Phó Chủ Nhiệm); 'Sự kiện và cuộc thi' (Events and Competitions) listing 'Cuộc Thi Nghệ Thuật "Nghệ Nhân Quà: Laughing Crew Artisans Competition" 2022', 'Triển lãm Du Học & Học Bổng Quốc Tế 2022', and 'Cuộc Thi "Tim Hiếu Về Các Bạn Trẻ Hiện Nay" Do Dự Án Youth Compass Tổ Chức 2022'; and 'Tiến độ hoạt động' (Activity progress) showing three tasks: 'Cuộc Thi Nghệ Thuật "Nghệ Nhân Quà: Laughing Crew Artisans Competition" 2022' (0/1), 'Triển lãm Du Học & Học Bổng Quốc Tế 2022' (0/0), and 'Cuộc Thi "Tim Hiếu Về Các Bạn Trẻ Hiện Nay" Do Dự Án Youth Compass Tổ Chức 2022' (1/2). At the bottom, a table titled 'Thành viên' (Members) lists Nguyễn Đình Trung as member number 1, with columns for STT, Họ và Tên (Name), Chức vụ (Position), and Trang thái (Status). A 'Xem tất cả' (View all) link is at the top right of the member table.

3.2.1.3 View Competition and Event List

The screenshot shows the UniCEC platform interface. At the top, there's a navigation bar with the UniCEC logo, user profile (Nguyễn Đình Trung), and FPT branding. On the left, a sidebar menu includes 'Câu lạc bộ', 'Cuộc thi và sự kiện' (selected), 'Danh sách', 'Tạo cuộc thi', 'Tạo sự kiện', 'LIÊN HỆ', 'Đội ngũ phát triển', 'Điều khoản dịch vụ', 'Chính sách bảo mật', and 'Liên hệ'. The main content area displays a summary of competitions: 2 open, 0 ready, 9 ongoing, and 2 completed. Below this is a section titled 'Cuộc Thi hoặc Sự Kiện Của Câu Lạc Bộ' (Competitions or Events of the Club) featuring three recent events:

- Club UniCEC - một ngày trước**: 'TRANH BIỂN TỔNG HỢP 2022' (BÌNH ĐỘI XÃ HỘI)
- Club UniCEC - một ngày trước**: 'CROWS & RAVENS ART COMPETITION' (Landscape Crow Artisan)
- Club UniCEC - 6 ngày trước**: 'BÁO CHÍ VIẾT VỀ DU LỊCH THÀNH PHỐ HỒ CHÍ MINH' (LẦN THỨ 12 NĂM 2022)

3.2.1.4 View Competition and Event Detail

This screenshot shows a detailed view of a competition entry. The left sidebar is identical to the previous one. The main content area has a breadcrumb path: 'Danh sách' - 'Chi tiết' - 'Bản thảo' - '@Cuộc thi'. The title is '@ Thiết kế' (Design). The competition details are as follows:

- Mở đăng ký: 22-08-2022 18:49:38 (4 GIỜ TRƯỚC)
- Bắt đầu: 25-08-2022 20:49:38 (3 NGÀY TỚI)
- Tòa nhà Officespot: 2 Nguyễn Bình Khiêm, Bến Nghé, Quận 1, Thành phố Hồ Chí Minh

A large image of a painting titled 'CROWS & RAVENS ART COMPETITION' is displayed. The right side of the screen shows a summary of the competition:

- Club UniCEC** (một ngày trước)
- Chuyên ngành: **TẤT CẢ**
- Cuộc Thi Nghệ Thuật "Quạ Và Quạ: Crows And Ravens Art Competition" 2022
- Hạn cuối đăng ký: 24-08-2022 19:49:38 (3 NGÀY TỚI)
- Tòa nhà Officespot: 2 Nguyễn Bình Khiêm, Bến Nghé, Quận 1, Thành phố Hồ Chí Minh
- Các câu lạc bộ tham gia và tổ chức

3.2.1.5 Create Competition

The screenshot shows the 'Create Competition' page. The left sidebar has 'Cuộc thi và sự kiện' selected. The main area shows a form for creating a competition. Fields include:

- Tiêu đề ***: Text input field.
- Thời gian mở đăng ký ***: Date input field set to 22/08/2022 10:25:21 CH.
- Thời gian kết thúc đăng ký ***: Date input field set to 22/08/2022 10:25:21 CH.
- Thời gian bắt đầu cuộc thi ***: Date input field set to 22/08/2022 10:25:21 CH.
- Thời gian kết thúc cuộc thi ***: Date input field set to 22/08/2022 10:25:21 CH.
- Địa chỉ ***: Text input field.
- Tên địa điểm ***: Text input field.
- Bài viết ***: Rich text editor.
- Ảnh bài viết ***: Placeholder for image upload.
- Thông tin bổ sung:**
 - Chọn chuyên ngành:** (Để trống để chọn tất cả)
 - Điểm thưởng:** Input field set to 0.
 - Giám khảo hoặc khách mời:** Button 'Thêm danh sách'.
 - Nhà tài trợ:** Button 'Thêm nhà tài trợ'.
 - Thu phí tham gia:** Switch button.
 - Quy mô:** Drop-down menu set to 'Liên Trường'.
 - Tùy chỉnh nhóm và người tham dự:**
 - Thiết lập**
 - Tùy chỉnh:**
- Hoàn tất**: Green button at the bottom right.

3.2.1.6 Add Competition Rounds

The screenshot shows the 'Add Competition Rounds' page. The left sidebar has 'Cuộc thi và sự kiện' selected. The main area shows a summary bar and a detailed configuration section for a single round.

TỔNG SỐ VÒNG THI: 1

TỔNG ĐIỂM THƯỞNG: 20

Các mốc thời gian của vòng thi vui lòng nằm trong khoảng bắt đầu và kết thúc của cuộc thi từ: **25-08-2022 20:49:38** tới **26-08-2022 21:49:38**

VÒNG 1	ĐIỂM THƯỞNG: 20
Khởi động	CHƯA TỐI
Đầu	26-08-2022 02:43:49
Kết thúc	26-08-2022 03:43:49
Tên vòng thi *	NHẬP TÊN VÒNG THI
Điểm thưởng	0
Nội dung	Nhập nội dung
Bắt đầu *	22/08/2022 10:27:58 CH
Kết thúc *	22/08/2022 10:27:58 CH
Lưu	Đóng

3.2.1.7 View Competition Rounds

The screenshot shows the UniCEC competition management interface. On the left, a sidebar menu includes 'Câu lạc bộ', 'Cuộc thi và sự kiện' (selected), 'Danh sách', 'Tạo cuộc thi', 'Tạo sự kiện', 'LIÊN HỆ' (Contact), and 'Liên hệ'. The main content area has an orange header bar with the UniCEC logo and a user profile for 'Nguyễn Đình Trung'. Below the header, a breadcrumb navigation shows 'Cuộc thi - Chi tiết - Vòng thi'. A summary bar at the top right displays 'TỔNG SỐ VÒNG THI' (1) and 'TỔNG ĐIỂM THƯỞNG' (20). The central part of the screen shows a table for 'VÒNG 1' (Round 1) with the following details:

VÒNG 1	
Tên vòng thi *	VÒNG 1
Điểm thưởng	20
Nội dung	Khởi động
Bắt đầu *	26/08/2022 02:43:49 SA
Kết thúc *	26/08/2022 03:43:49 SA

Buttons for 'Xóa' (Delete) and 'Đóng' (Close) are visible. To the right, a note says 'Điểm của cuộc thi từ:' followed by 'ĐIỂM THƯỞNG: 20'. At the bottom right of the main content area, there are links for 'Fanpage', 'About Us', 'Contact', and 'License'.

3.2.1.8 Update Competition Rounds

This screenshot shows the same UniCEC interface as the previous one, but with changes made to the 'VÒNG 1' row. The 'Tên vòng thi' field now contains 'VÒNG 1' with a red asterisk indicating it is required. The 'Điểm thưởng' field is set to '20'. The 'Nội dung' field still shows 'Khởi động'. The 'Bắt đầu' and 'Kết thúc' fields remain the same as in the previous screenshot. The 'Lưu' (Save) button is highlighted in green at the bottom left, while the 'Đóng' (Close) button is in its original dark blue state. The rest of the interface, including the sidebar and summary bar, remains identical to the previous screenshot.

3.2.1.9 Manage Competition Cooperate

Chuyên ngành: TẤT CẢ

Cuộc Thi Nghệ Thuật "Quà VÀ Quạ: Crows And Ravens Art Competition" 2022

Mở đăng ký: 22-08-2022 18:49:38 GIỚI TRƯỚC

Bắt đầu: 25-08-2022 20:49:38 3 NGÀY TỚI

Tòa nhà Officespot
2 Nguyễn Bình Khiêm, Bến Nghé, Quận 1, Thành phố Hồ Chí Minh

Thêm câu lạc bộ quản trị

Các câu lạc bộ tham gia và tổ chức

Thông tin cuộc thi

Trưởng: FPT

Câu lạc bộ: club2

club2 minhnhat3105@gmail.com FPT

Thêm câu lạc bộ Đóng

Các câu lạc bộ tham gia và tổ chức

Quản lý câu lạc bộ

Hạt giống thường: 100 đ

Quy mô: Liên trường

Số thành viên đã đăng ký: 0 người

Xem nhóm đăng ký Quản lý vòng thi

3.2.1.10 Update Competition

Chỉnh sửa cuộc thi: **Thể loại cuộc thi** Thiết kế

Tiêu đề * Cuối Thi Nghệ Thuật "Quà VÀ Quạ: Crows And Ravens Art Competition" 2022

Thời gian mở đăng ký * 22/08/2022 06:49:38 CH 24/08/2022 07:49:38 CH

Thời gian bắt đầu cuộc thi * 25/08/2022 08:49:38 CH 26/08/2022 09:49:38 CH

Địa chỉ * 2 Nguyễn Bình Khiêm, Bến Nghé, Quận 1, Thành phố Hồ Chí Minh

Tên địa điểm * Tòa nhà Officespot

Bài viết *

Laughing Crow Artisans is an art gallery located in the 100+-year-old Brown Hotel Building in Springer, New Mexico (northern New Mexico). It's referred to as the "Hidden Gem." Renovations have been completed on the first floor of the building and the art gallery (with four gallery rooms) was opened in April 2022. Renovations continue on the kitchen, dining room, and classrooms (also on the first floor) as well as 14 guest rooms and 4 bathrooms on the second floor. Once these renovations are completed, the artist retreat portion of the business will begin. We plan to host several artist/writer/song writer workshops per year.

Art Competition for Artists and Photographers

Do you love ravens and crows as much as we do? We hope so! Laughing Crow Artisans is organizing an exhibition of crows and ravens that will run October 1st, 2022 through December 16th, 2022, in our East Gallery. To make sure our crows and ravens get

Thông tin bổ sung:

Chọn chuyên ngành: (Để trống để chọn tất cả)

Điểm thường*: 100

Giảm khảo hoặc khách mời: Thêm danh sách

Nhà tài trợ: Thêm nhà tài trợ

Thu phí tham gia:

Quy mô: Liên Trường

Tùy chỉnh nhóm và người tham dự: Thiết lập

Tùy chỉnh: Cập nhật

3.2.1.11 Create Event

Tạo sự kiện của bạn: Thể loại sự kiện

Tiêu đề *

Thời gian mở đăng ký * Format

Thời gian kết thúc đăng ký *

Thời gian bắt đầu cuộc thi * Thời gian kết thúc cuộc thi *

Địa chỉ * Tên địa điểm *

Bài viết *

Ảnh bài viết *

Thông tin bổ sung:

Chọn chuyên ngành: (Để trống để chọn tất cả)

Điểm thưởng*:

Tối đa đăng ký*:

Giám khảo hoặc khách mời:

Nhà tài trợ:

Thu phí tham gia:

Quy mô:

Tùy chỉnh:

Hoàn tất

3.2.1.12 View Activity in Competition

Hoạt động câu lạc bộ

CÁC HOẠT ĐỘNG ĐÃ HOÀN THÀNH
3/10 [Xem chi tiết](#)

TỔNG SỐ HOẠT ĐỘNG ĐÃ TẠO
5 [Xem chi tiết](#)

CÁC HOẠT ĐỘNG TRÊ HÀN
0 [Xem chi tiết](#)

Tiến Độ Hoạt Động

Văn hóa Cuộc Thi Nghệ Thuật "Nghệ Nhân Quật: Laughing Crow Artisans Competition" 2022 26/08/2022 Tiến độ hoàn thành: 0/1 MỞ ĐĂNG KÝ	Thiết kế Cuộc Thi Về Tranh Cổ Động "Quy Tắc Ưng Xứ Nơi Công Công" 2022 21/08/2022 Tiến độ hoàn thành: 0/1 ĐANG DIỄN RA	Business Competition Cuộc Thi "Tim Hiếu Về Các Bạn Trẻ Hiện Nay" Do Dự Án Youth Compass Tổ Chức 01/08/2022 Tiến độ hoàn thành: 1/3 HOÀN THÀNH	Ẩm Nhạc Cuộc Thi "Tim Hiếu Về Các Bạn Trẻ Hiện Nay" 10/08/2022 Tiến độ hoàn thành: 0/2 HOÀN THÀNH
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3.2.1.13 View List Activity

The screenshot shows the UNICEC application interface. On the left, there is a sidebar with navigation links: Câu lạc bộ (Club Information), Hoạt động (Activities), Tạo Hoạt động (Create Activity), Thành viên (Members), Cuộc thi và sự kiện (Competitions and Events), LIÊN HỆ (Contact), Đội ngũ phát triển (Development Team), Điều khoản dịch vụ (Terms of Service), Chính sách bảo mật (Privacy Policy), and Liên hệ (Contact). The main content area is titled 'Hoạt động - Chi tiết' (Activity Detail) and displays the following information:

- Triển khai**: Status is 'chuẩn bị bàn' (Prepared), with a red button labeled 'Thời hạn: một ngày trước' (Deadline: one day before).
- Chờ duyệt**: Status is 'Đang chờ' (Pending review).
- Hoàn thành**: Status is 'Hoàn thành' (Completed), with a green bar and the text 'test Competition Activity'.
- Hủy bỏ**: Status is 'chuẩn bị bàn' (Prepared), with a red button labeled 'Hủy bỏ' (Cancel).

Below these status boxes is a button '+ Thêm hoạt động' (Add Activity).

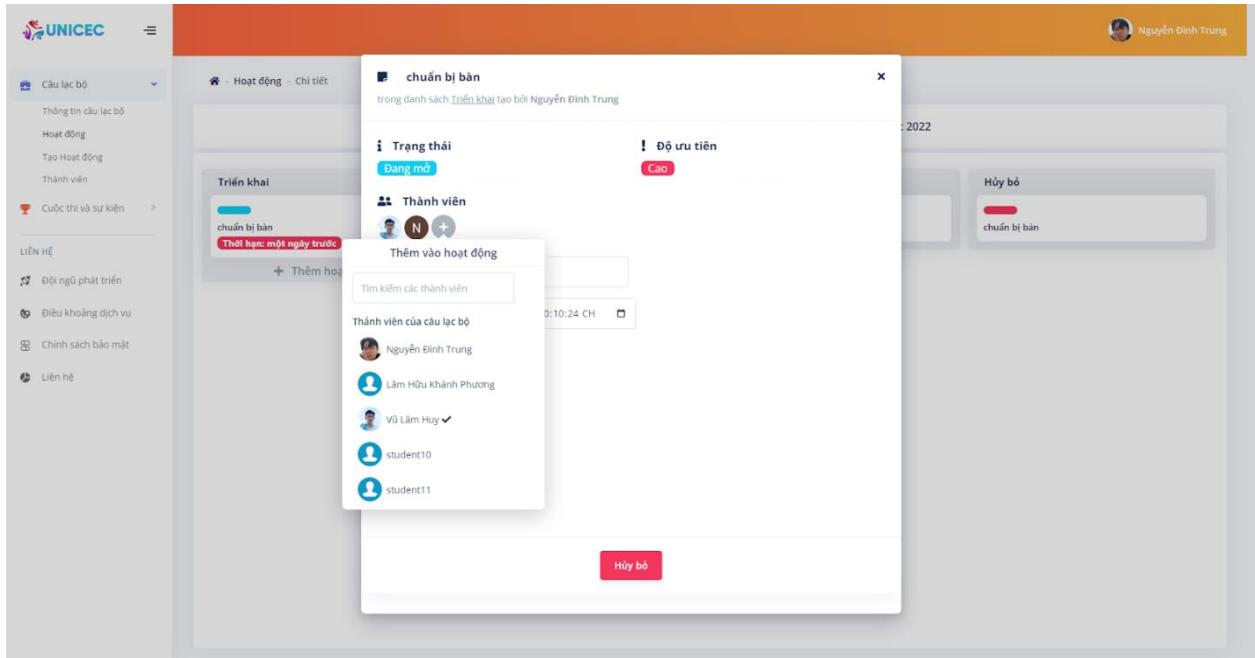
3.2.1.14 View Activity Detail

This screenshot shows the detailed view of the 'Triển khai' activity from the previous screen. The activity details are as follows:

- Trạng thái**: 'Đang mở' (Open).
- Độ ưu tiên**: 'Cao' (High).
- Thành viên**: Shows a user profile picture and the name 'N'.
- Điểm thường**: Value '100'.
- Thời hạn**: Deadline set to '21/08/2022 10:10:24 CH'.
- Mô tả**: Description field containing 'dwagId fs'.

A red 'Hủy bỏ' (Cancel) button is located at the bottom right of the detail modal.

3.2.1.15 Assign Member to Activity



3.2.1.16 View Member List

Danh sách thành viên				
Danh sách các thành viên ở trong câu lạc bộ của bạn.				
MÃ SINH VIÊN	HỌ VÀ TÊN	CHỨC VỤ	NGÀY THAM GIA	HÀNH ĐỘNG
SE140309	Nguyễn Đình Trung	Chủ Nhiệm	16/05/2022	
SE888888	Lâm Hữu Khánh Phương	Phó Chủ Nhiệm	28/05/2022	
SE140164	Vũ Lâm Huy	Phó Chủ Nhiệm	24/06/2022	
SE000001	student10	Trưởng Ban	28/05/2022	
SE000002	student11	Trưởng Ban	28/05/2022	
SE000004	student13	Thành Viên	28/05/2022	
SE000005	student14	Thành Viên	28/05/2022	
SE000006	student15	Thành Viên	28/05/2022	
SE000007	student16	Thành Viên	28/05/2022	
SE000008	student17	Thành Viên	28/05/2022	

3.2.1.17 View Member Approval in Club

The screenshot shows the UNICEC application interface. On the left, there is a sidebar with various menu items like 'Câu lạc bộ', 'Thông tin câu lạc bộ', 'Hoạt động', 'Tạo Hoạt động', 'Thành viên', 'Cuộc thi và sự kiện', 'Liên hệ', and 'Đội ngũ phát triển', 'Điều khoản dịch vụ', 'Chính sách bảo mật'. The main content area has a header 'Câu lạc bộ - Thành viên' and a sub-header 'Danh sách thành viên'. A search bar is present. Below it is a table titled 'Danh sách thành viên đăng ký' with columns: MÃ SINH VIÊN, HỌ VÀ TÊN, and HÀNH ĐỘNG. The table lists 10 entries. To the right of the table is another table with columns: NGÀY THAM GIA and HÀNH ĐỘNG, listing dates from 16/05/2022 to 28/05/2022. A blue button labeled 'Xét duyệt' is located at the top right of the main content area.

3.2.2. Admin University

3.2.2.1 Manage Club

The screenshot shows the UNICEC application interface. On the left, there is a sidebar with menu items like 'Trường', 'Quản lý câu lạc bộ', 'Quản lý chuyên ngành', 'Cuộc thi và sự kiện', 'Liên hệ', and 'Đội ngũ phát triển', 'Điều khoản dịch vụ', 'Chính sách bảo mật'. The main content area has a header 'Câu lạc bộ' and a sub-header 'Tìm kiếm theo tên'. A green button labeled 'Thêm mới' is visible. Below is a table with columns: STT, TÊN CÂU LẠC BỘ, THÀNH VIÊN, and HÀNH ĐỘNG. The table lists 5 clubs: FCode, club2, Club UniCEC, Club UniCEC 1, and Club0. The right side of the screen shows a status bar with 'HOẠT ĐỘNG', 'Hồ Chí Minh', and 'Giờ mở: 07:00 - 20:00'.

3.2.2.2 View Department

FPT (FPT)
Email: fpt.edu.vn
Liên hệ: 1234567890

HOẠT ĐỘNG
Hồ Chí Minh
Giờ mở: 07:00 - 20:00

STT	MÃ	TÊN NGÀNH HỌC	CHUYÊN NGÀNH	HÀNH ĐỘNG
1	SE	Kỹ Thuật Phần Mềm	Công Nghệ Thông Tin	▼
2	MJ2	Hệ Thống Thông Tin	Công Nghệ Thông Tin	▼
3	MJ3	Trí Tuệ Nhân Tạo	Công Nghệ Thông Tin	▼
4	MJ4	An Toàn Thông Tin	Công Nghệ Thông Tin	▼
5	MJ5	IoT	Công Nghệ Thông Tin	▼
6	MJ7	Kinh Doanh Quốc Tế	Quản Trị Kinh Doanh	▼
7	MJ9	Quản Trị Dịch Vụ Du Lịch & Lữ Hành	Quản Trị Kinh Doanh	▼
8	MJ11	Ngôn Ngữ Anh	Ngôn Ngữ	▼

3.2.2.3 Create Department

FPT (FPT)
Email: fpt.edu.vn
Liên hệ: 1234567890

HOẠT ĐỘNG
Hồ Chí Minh
Giờ mở: 07:00 - 20:00

Tạo chuyên ngành:

STT	MÃ	TÊN NGÀNH	CHUYÊN NGÀNH	HÀNH ĐỘNG
1	SE	Kỹ Thuật P	Công Nghệ Thông Tin	▼
2	MJ2	Hệ Thống T	Công Nghệ Thông Tin	▼
3	MJ3	Trí Tuệ Nh	Công Nghệ Thông Tin	▼
4	MJ4	An Toàn T	Công Nghệ Thông Tin	▼
5	MJ5	IoT	Công Nghệ Thông Tin	▼
6	MJ7	Kinh Doanh Quốc T	Quản Trị Kinh Doanh	▼
7	MJ9	Quản Trị Dịch Vụ Du Lịch & Lữ Hành	Quản Trị Kinh Doanh	▼
8	MJ11	Ngôn Ngữ Anh	Ngôn Ngữ	▼

3.2.2.4 Approval Competition or Event

The screenshot shows the UniCEC software interface. At the top right, there is a user profile for 'Nguyễn Đình Trung' with a status of 'HOAT ĐỘNG' (Active) and location 'Hồ Chí Minh'. Below the header, there is a sidebar with links for 'Trường', 'Cuộc thi và sự kiện' (selected), and 'Xét duyệt'. Under 'LIÊN HỆ', there are links for 'Đội ngũ phát triển', 'Điều khoản dịch vụ', 'Chính sách bảo mật', and 'Liên hệ'.

The main content area is titled 'Duyệt cuộc thi và sự kiện' (Review competition and event). It includes a search bar with placeholder 'Tìm kiếm ...' and a magnifying glass icon. A table lists two entries:

STT	TÊN	THỂ LOẠI	TÀI TRỢ	QUY MÃ	Xem chi tiết	ÔNG
1	Cuộc Thi Thiết Kế: Instructables Eggs Challenge 2022	Thiết kế	Không tài trợ	Liên trù	Chấp thuận	
2	dwadiva	Âm Nhạc	Không tài trợ	Liên trù	Từ chối	

At the bottom left, it says '© 2022 UniCEC'. On the bottom right, there are links for 'Fanpage', 'About Us', 'Contact', and 'License'.

VII. Appendix

1. OMG Unified Modelling Language (OMG UML) Superstructure

<https://www.omg.org/spec/UML/2.4.1/Superstructure/PDF>

2. UML Diagram

<https://www.uml-diagrams.org/>

3. React Hook

<https://reactjs.org/docs/hooks-intro.html>

4. C#

<https://spring.io/>

5. Element-plus-UI

<https://element-plus.org/en-US/>

6. Firebase

<https://firebase.google.com/docs>