

FTU STUDENT ACTIVITY SYSTEM

KHOYREEYAH TAN-E-NO

FATONI UNIVERSITY

1440/2019

CHAPTER ONE

INTRODUCTION

1.1 PROJECT OVERVIEW

Fatoni University was established with one important objective: to develop students with morality and ethics adhere to religion and set a good example. Therefore, the university has a policy of educational management and creating an educational environment that focuses “Creating a professional life” and strive to create an environment that is conducive to the development of students to develop both intellectually, spiritually, emotionally, physically and socially. By focusing on creating an atmosphere “My university My paradise” In order to produce graduates with a graduate identity with leadership have a moral and focus on the development of a peaceful society. With awareness of the main mission and policy in producing graduates towards enhancing the graduate identity mentioned above. The university attaches importance to the development of student potential by promoting and supporting student activities. There are a lot of activity inside Fatoni University such as Halaqoh Al-Quran, Qiyamullai, Ma al Quran, FTU Sport Game, Club’s meeting and else. All activities that responsibilities by Office of Student Development, Faculty, and student organization. Students will get the activity certificate after they passed the criteria for participation in activities set forth by the university during the period of study here by Officer of Student Potential Development. All activity will be signing the activity’s participation by header of that activity.

Student activity participation not just only make you get the activity certificate, but student can use it for apply or get various privileges that relate with activities' participation, for example scholarship. Now students use an activity book for collect all data of the activity's participant and if activity's book broken or lost, the data will be lost. Students have to buy the new activity's book and collect sign of pass activity from header of that activity again and sometime it is too hard for find old information cause, activity manager still uses the paper in every step of activity and do not have the database for collect the data. Which, if student do not have the participation information it will hard and lost time for officer of student potential development to check for give the activity certificate or get various privileges that relate with activities' participation.

So, the developer will develop FTU Student Activity System. It is a web base system that is to develop for Fatoni University and it operate via network, which can help the system to operate with systematically and it will make a convenient for all user of this system as well.

1.2 PROBLEM STATEMENT

From assess there are several problems why should develop this system for Fatoni university as following:

Fatoni university usually use the manual system that is hard for officer of student development to examine the truly of participation of the student activity, even though there is a system develop by Absor Waedo and Arofat Samae. Still, the system is not functioning well yet. It seen that the system force student has to login first before check the activity and it does not separate male and female activity. Then activity staff

cannot estimate amount of the participant student. And after done the activity do not have the online assessment for student to do, which it is some part that important for activity staff to make the activity result.

1.3 PROJECT OBJECTIVE

1. To improve the current FTU Student Activity System to support difference languages.
2. To manage student activity participation in more effective way by adding more function.

1.4 SCOPE OF STUDY

The scope of developing the FTU Student Activity System as followings:

1. This project made for 4 types of users:
 - Students: including the general students.
 - Staff: including activity staff (students union member, club member, faculty member and else)
 - Approver (student advisor and faculty officer)
 - Admin: including the administrative officer of students and development.
2. Support 2 languages: Thai and English.
3. Develop for Fatoni University.

1.5 SIGNIFICANT OF STUDY

After developing this system, it can help the all user to:

1. The administrative officer of students and development are able to examine the activity of online student activity.
2. Benefit to students for manage their activity's time participation and easy for check activity online schedule.
3. Developer can learn how to develop a system and improve web developments skills.

1.6 HARDWARE AND SOFTWARE REQUIREMENT

A combination of computer hardware and software are being used to complete this web based. These hardware and software component are as described below.

Hardware component

The hardware requirements used in this project are:

- CPU: INTEL Core i5 2.7 GHz
- Memory: 8 GB 2867 MHz DDR3
- Graphics: Intel Iris Graphic 6100 1536 MB

Software component

- Visual Studio Code
- Adobe Photoshop CC 2018
- Xampp 7.1.33
 - Apache
 - MySQL database Server: 127.0.0.1Server: 127.0.0.1
- Personal Home Page (PHP) language
- Microsoft 2019

1.7 ORGANIZATION OF THE DOCUMENT.

The proposal consists of five chapters organization as following:

Chapter One: Introduction

This This chapter discusses about the project overview, problem statement, objectives, significance of study, limitation / scope of study, software and hardware requirement, report organization.

Chapter Two: literature review

This chapter discusses the theories from many sources such as article, Thesis, journal, book and etc. that relate to the project study in order to be guideline in develop this project.

Chapter Three: Methodology

This chapter is described about Methodology which to study that user to develop FTU student's activity system and describe in each phase.

Chapter Four: Implementation

This chapter shoe the coding and testing the system. If user found any error in this application, developer will fix bugs and solve the problem.

Chapter Five: Conclusion

This chapter is described how the system be benefit for the users or organization and recommendation for the future work.

CHAPTER TWO

LITERATURE REVIEW

2.1 DEFINITION

2.1.1 Student's activity

Student's activity is a systematic work or all activities to encourage students to develop themselves physically, mentally, emotionally, socially, and in their personalities to their full potential. It is a supplementary activity, that is beneficial to students who are studying in the University. In addition to studying Academic knowledge, tertiary education also coupled with finding experience and increasing skills in living as well. Both experiences gain from participating in activities during the study to improve abilities in various ways. Both activities in the classroom and outside the classroom. Is to promote good citizenship with public conscience will result in students having the skills to live life Able to live happily in society.

2.1.2 Structural chart of Fatoni University

In Fatoni University, the officer of student potential development is the main organization that is to control all about student's activity. There are student organization to work under of them.

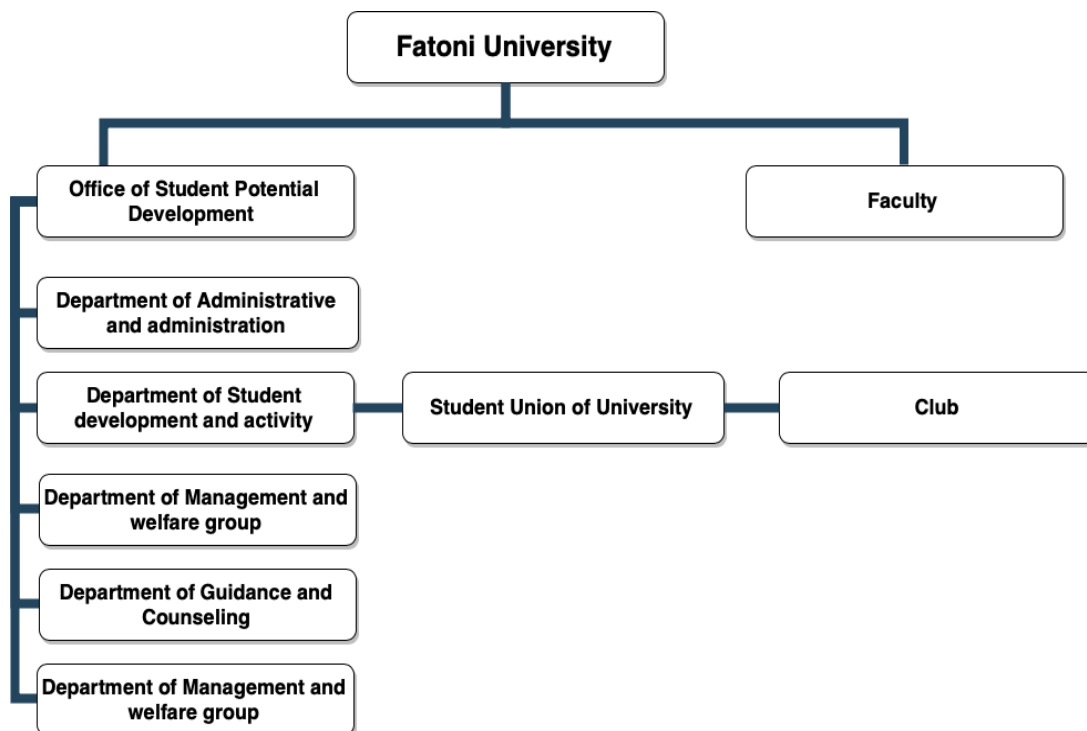


Figure 2.1: “Structural chart of Officer of Student Potential Development in Fatoni University”.

2.1.3 Officer of student potential development

Is the main unit for promoting students to gain knowledge and work experience. As well as the appropriate personality development. It is also a center for services and welfare for students.

2.1.4 Student organization

Organizations established by undergraduate students according to university processes. To perform according to the policy of the university which separates organizations between men and women consisting of Student union, gathering, clubs and student groups.

2.2 RELATED WORK

2.2.1 Student activity system Of Yuppharaj Witthayalai school

The objective of this project to develop the system Enroll in the student development activities of Yuppharaj College School via the network. The sample group were 529 students, all of them are mathayom suksa fifth (Grade 11) students in academic year 2015 at Yuppharaj School. The system was developed by using Dreamweaver, MySQL, Xampp, Bootstrap and photoshop for programming and graphic design. The system is available online into the school website and more beneficial to the student who are using it. (Pariyarat, A.& Watthani, L. 2015)

The image displays three screenshots of a web-based student activity system interface, likely for enrollment or registration.

The top screenshot shows a login form with two input fields: "Name" and "Password". Below these fields are two buttons: "ลงชื่อเข้าใช้" (Login) and "สมัครสมาชิก" (Register).

The middle screenshot shows a registration form for students. It includes dropdown menus for "Title", "Class", and "Number", and text input fields for "Name", "Last Name", "ID student", "Name_system", "Password_system", and "Assure of Password_system". A "สมัครสมาชิก" (Register) button is at the bottom.

The bottom screenshot shows a registration form for teachers. It includes dropdown menus for "Title", "Subject", and "Last Name", and text input fields for "Name", "ID teacher", "Name_system", "Password_system", and "Assure of Password_system". A "สมัครสมาชิก" (Register) button is at the bottom.

Figure 2.1: “Student activity system Of Yuppharaj Witthayalai School”.

2.2.2 Zip Event

Zip Event is an event collection. Into the application as a platform to help everyone who wants to go to the event. Able to find the event that you want and most like. In terms of event organizers, this platform can help facilitate all processes from before the event to the end of the event. Event Application now that many events the work began to appear in the app, which will include details about the booth map as well as online questionnaires, with just a few clicks.

If many things in the event turn to be digitally, the cost of hiring staff or staff may also be reduced, such as registration which now has new innovations. Which makes us not have to register for the event by signing the name or filling in with the pen, the event site will not have to use a lot of staff to watch. While also allowing the registration process to be faster than before. And Participants can comment and evaluate through the website or online. This makes data collection easier and more precise. (Jinjutha, P.2018)

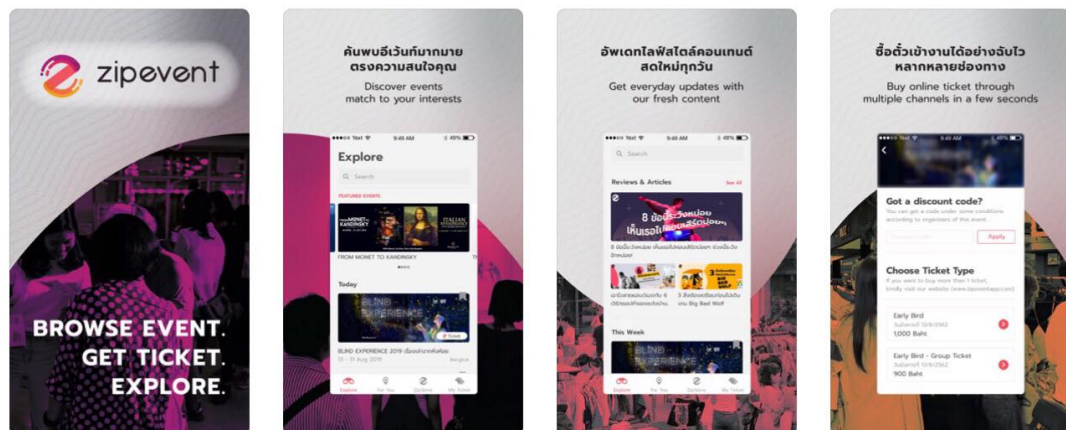


Figure 2.2: “Zip Event”.

2.2.3 Songkhla Rajabhat University Student Activity System

The Songkhla Rajabhat university student activity system, they use the system for manage the student activity. This system the students have to login first then chose the activity for apply, and after they participate the activity, they have to do the online assessment before they got past the activity. And this system will announcement the all activity of each month.

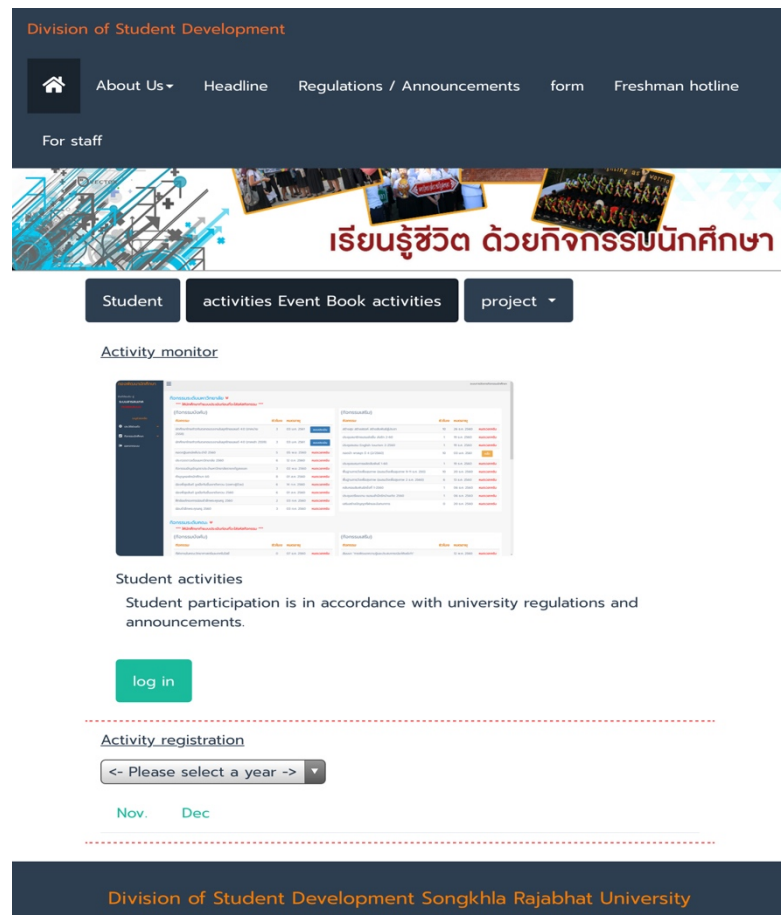


Figure 2.2: “Songkhla Rajabhat University Student Activity System”.

2.3 TOOLS OF USE

2.3.1 XAMPP

XAMPP is an open source software developed by Apache friends. XAMPP software package contains Apache distributions for Apache server, MariaDB, PHP, and Perl. And it is basically a local host or a local server. This local server works on your own desktop or laptop computer. The use of XAMPP is to test the clients or your website before uploading it to the remote web server. This XAMPP server software

gives you the suitable environment for testing MYSQL, PHP, Apache and Perl projects on the local computer (Prabhu, 2017).

2.3.1.1 My SQL

MYSQL is an open source software. It is actually a relational database management system (RDBMS). This SQL stands for Structured Query Language. It is the most popular and best RDBMS used for developing a variety of web-based software applications. With the help of MYSQL, it is possible to organize the information, manage, retrieve and update the data whenever you wish to do (Prabhu, 2017). It will be used in this project to manage database queries.

2.3.1.2 PHP

The full form of PHP is Hypertext Preprocessor. It is a server-side scripting language that help you to create dynamic websites. The language is mainly used to build web-based software applications. It is an open source software and works fine with MYSQL. What actually happens is, the PHP code will be executed on the server and at the browser side its HTML code will be displayed (Prabhu, 2017). PHP is being used in this work to write the backend code to handle user clicks and interact with it which make the website more interactive.

2.3.2 Visual Studio Code

Visual Studio Code is a source code editor developed by Microsoft for Windows, Linux and macOS. It includes support for debugging, embedded Git control, syntax highlighting, intelligent code completion, snippets, and code refactoring (TechSpot, 2019). This editor with its extensions is a great too that help the developer to write the code faster and more professional.

2.3.3 Microsoft Office Word 2019

Microsoft Office 2019 is the next version of the Microsoft Office Suite. It was released in October 2018, and a preview version was available prior to that, in the second quarter of that same year. It includes the applications available in previous suites (such as Office 2016 and Office 2013), including Word, Excel, Outlook, and PowerPoint, as well as servers including Skype for Business, SharePoint, and Exchange (Joli B.,20 19).

2.3.4 Adobe Photoshop

Adobe Photoshop is the predominant photo editing and manipulation software on the market. Its uses range from the full-featured editing of large batches of photos to creating intricate digital paintings and drawings that mimic those done by hand (IT connect).

2.3.5 Bootstrap

Bootstrap is an open- source CSS, JavaScript framework that was originally developed for twitter application by twitter's team of designers and developers. Then they released it for open-source. Being a longtime user of twitter bootstrap I find that it is one of the best for designing mobile ready responsive websites. Many CSS and Java script plugins are available for designing your website in no time. It is kind of rapid template design framework. Some people complain that the bootstrap CSS files are heavy and takes time to load but these claims are made by lazy people. You don't have to keep the complete bootstrap. CSS in your website. You always have the option to remove the styles for components that you do not need for your website. For example, if you are only using basic components like forms and buttons then you can

remove other components like accordions etc. from the main CSS file. To start dabbling in bootstrap you can download the basic templates and components from get bootstrap site and let the magic happen (Valueweaver, 2014).

2.3.6 QR Code

A QR Code is a two-dimensional square barcode which can store encoded data. Most of the time the data is a link to a website (URL). When you scan a QR Code using your smartphone, you get an immediate access to its content. The QR Code reader can then carry an action, like opening your web browser to a specific URL. Other actions can be triggered, like storing a business card in your smartphone's contact list or connecting to a wireless network (Unitag QR).

CHAPTER THREE

METHODOLOGY

3.1 INTRODUCTION

This chapter focuses on methodology, analysis and design of FTU student activity system that provide of idea and logic of how the system was built and how about system workflow. It also describes each processes of system development life cycle in detail.

3.1.1 Definition of SDLC

The System Development Life Cycle (SDLC) is the process of understanding how an information system (IS) can support business needs by designing a system, building it, and delivering it to user.

The SDLC has similar set of four fundamental phase: planning, analysis, design, and implementation. Each phase is itself composed of a series of steps, which rely upon techniques that produce deliverables (specific document and files that provide understanding about the project). (Alan, D. 2010)

The SDLC there are several models that developer can use for implement their organization such as, Waterfall Development, Rapid Application Development, Agile Development. FTU Student Activity System use the waterfall Development for develop the project.

3.1.2 Definition of Waterfall

The Waterfall Development is the original structured design methodology. The process of this methodology is step by step referred to as waterfall.

- Advantages are it identifies system requirements long before programming begins and it minimizes changes to the requirements as the project proceeds.
- Disadvantages are that the design must be completely specified before programming languages begins and that a long times elapses between completion of the system proposal in the analysis phase and the delivery of the system. (Alan, D. 2010)

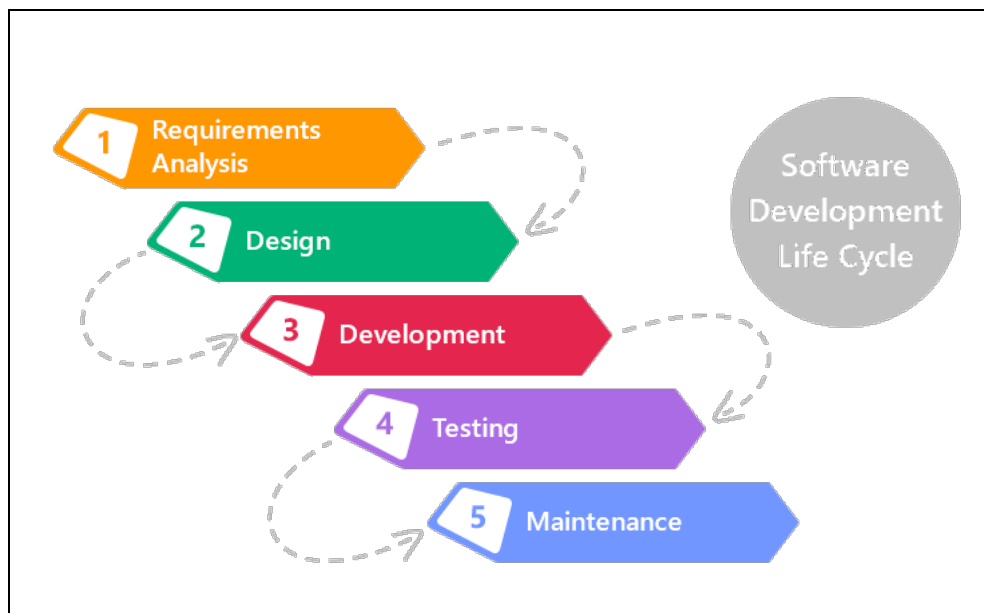


Figure 3.1: Waterfall methodology

3.2 REQUIREMENTS ANALYSIS

The requirements analysis is the first step for developer to develop the FTU student activity project. In this step can separate in two part: first is the developer have to plan by ask the requirements of user from activity officer and activity staff and student inside of Fatoni university. And developer try to learn the current FTU student activity system that the senior already done. Then the second is developer analyze the requirement of user and analyze the current project that what developer should improve the project, who can use this project, how they can use, and how to develop this project. That show by structure chart, list of requirements, analysis of use case diagram, use case specification, sequence diagram, class diagram, and entity relationship diagram for database analyses.

3.2.1 SYSTEM ARCHITECTURE OVERVIEW

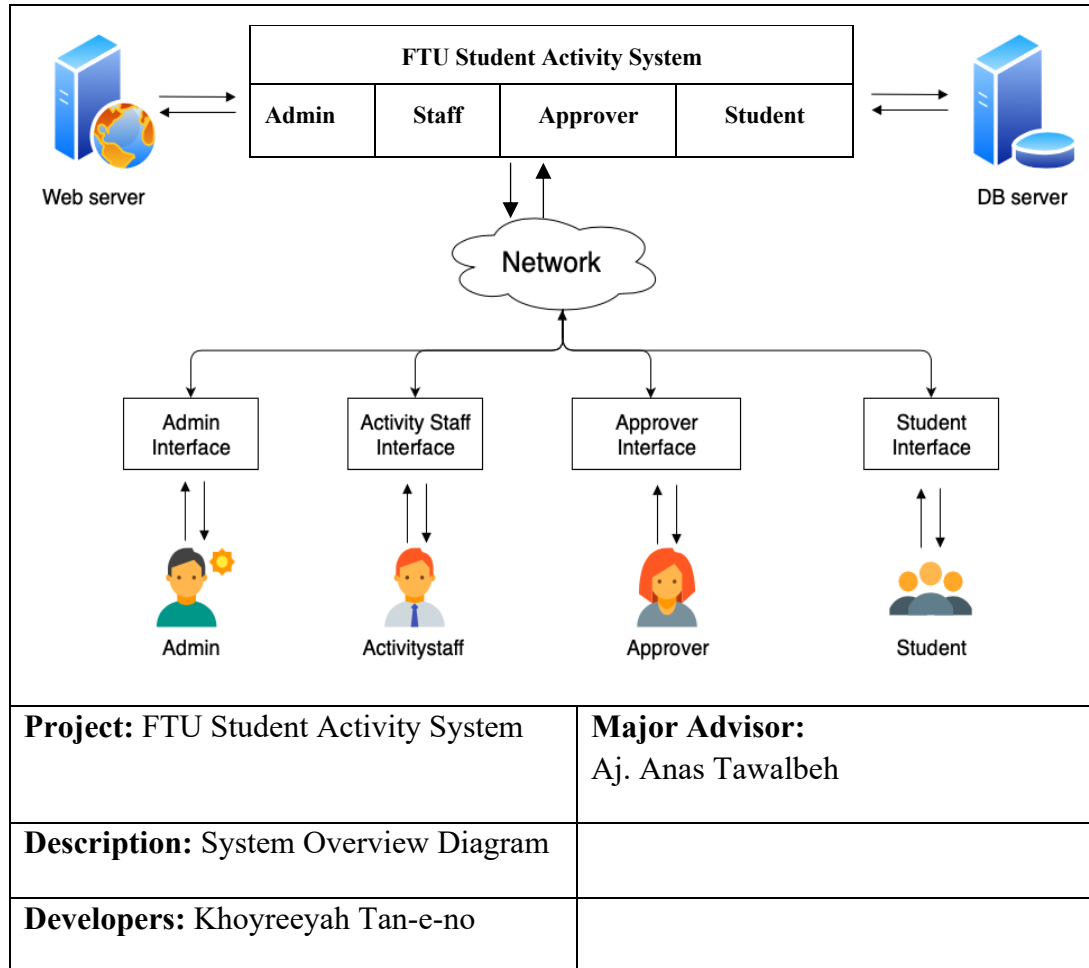


Figure 3.2: System structure chart

3.2.2 SYSTEM STRUCTURE CHART

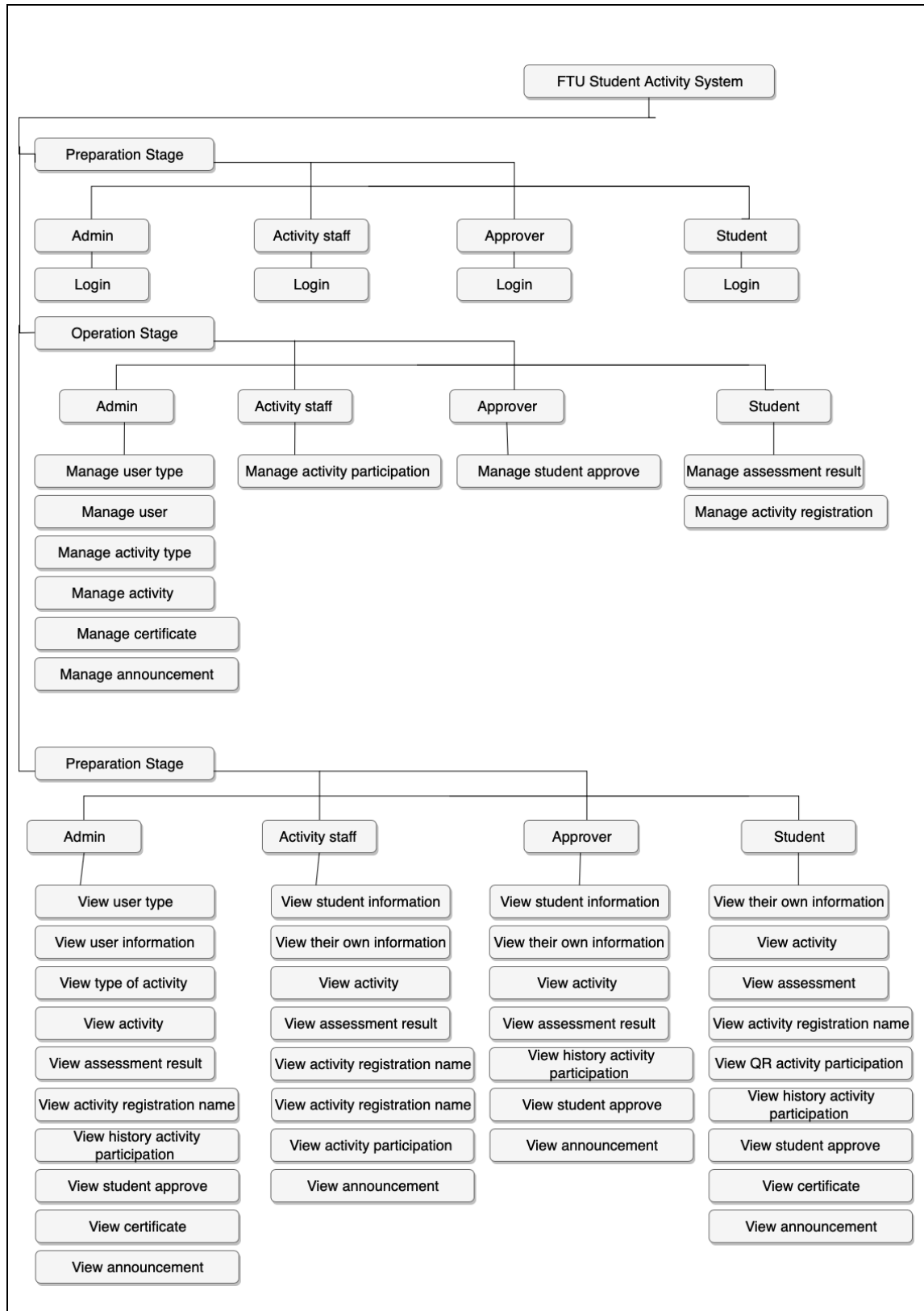


Figure 3.3: System structure chart

3.2.3 PROCESS ANALYSIS AND DESIGN

List of Requirements

M - Mandatory requirement (What the system must do)

D – Desirable requirement (What the system preferable do)

O – Option requirement (What the system may do)

No	Requirement ID	Requirement Description	Prior
	Req_01	Manage Login	
1	Req_01.1	Admin, activity staff, approver and student can login.	M
	Req_02	View Login history	
2	Req_02.1	Admin can view login history of all user.	O
	Req_03	Manage User Type	
3	Req_03.1	Admin can add user type.	M
4	Req_03.2	Admin can update user type.	M
5	Req_03.3	Admin can delete user type.	M
	Req_04	View User Type	
6	Req_04.1	Admin can view user type.	M
	Req_05	Manage User	
7	Req_05.1	Admin can add user.	M
8	Req_05.2	Admin can update user information.	M
9	Req_05.3	Admin can delete user.	M
10	Req_05.4	All user can update their own information.	D
	Req_06	View User Information	
11	Req_06.1	Admin can view user information.	D
12	Req_06.2	Staff can view student information.	D
13	Req_06.3	All user can view their own information.	D
	Req_07	Manage Activity type	
14	Req_07.1	Admin can add new type of activity.	M
15	Req_07.2	Admin can update type of activity.	M
16	Req_07.3	Admin can delete type of activity.	M

	Req_08	View Type of Activity	
17	Req_08.1	Admin can view type of activity.	D
	Req_09	Manage Activity	
18	Req_09.1	Admin can add new activity.	M
19	Req_09.2	Admin can update activity.	M
20	Req_09.3	Admin can delete activity.	M
	Req_10	View Activity	
21	Req_10.1	All user can view activity.	M
	Req_11	Manage Assessment Result	
22	Req_11.1	Participant student can add assessment result.	M
	Req_12	View Assessment	
23	Req_12.1	Participant student can view assessment.	M
24	Req_12.2	Admin and activity staff can view assessment result.	M
	Req_13	Manage Activity Registration	
25	Req_13.1	Student can register activity.	M
	Req_14	View Activity Register Name	
26	Req_14.1	All user can view activity register name.	D
	Req_15	View QR activity participation	
27	Req_15.1	Student can view their own QR activity participation.	M
	Req_16	Manage Activity Participation	
28	Req_16.1	Activity staff can add ID of their own student activity participation.	M
29	Req_16.2	Activity staff can delete ID of their own student activity participation.	M
	Req_17	View Activity Participation	
30	Req_17.1	Activity staff can view name of their own student activity participation.	M

31	Req_17.2	Admin and approver can view history of student activity participation of each student.	M
32	Req_17.3	Student can view history of their own student activity participation.	D
	Req_18	Manage Student Approve	
33	Req_18.1	Approver can add student approve.	M
34	Req_18.2	Approver can update student approve.	M
35	Req_18.3	Approver can delete student approve.	M
	Req_19	View Student Approve	
36	Req_19.1	Admin and approver can view student approve of activity participation	M
37	Req_19.2	Student can view their own student approve of activity participation	M
	Req_20	Manage Certificate	
38	Req_20.1	Admin can add certificate.	M
39	Req_20.2	Admin can delete certificate.	M
	Req_21	View Certificate	
40	Req_21.1	Admin and student can view certificate.	D
41	Req_21.2	Admin and student can download certificate file.	D
42	Req_21.3	Admin and student can print certificate.	M
	Req_22	Manage Announcement	
43	Req_22.1	Admin can add new announcement.	D
44	Req_22.2	Admin can update announcement.	D
45	Req_22.3	Admin can delete announcement.	D
	Req_23	View Announcement	
46	Req_23.1	All user can view announcement.	D

Table 2.2: List of Requirements

3.2.4 Use case diagram

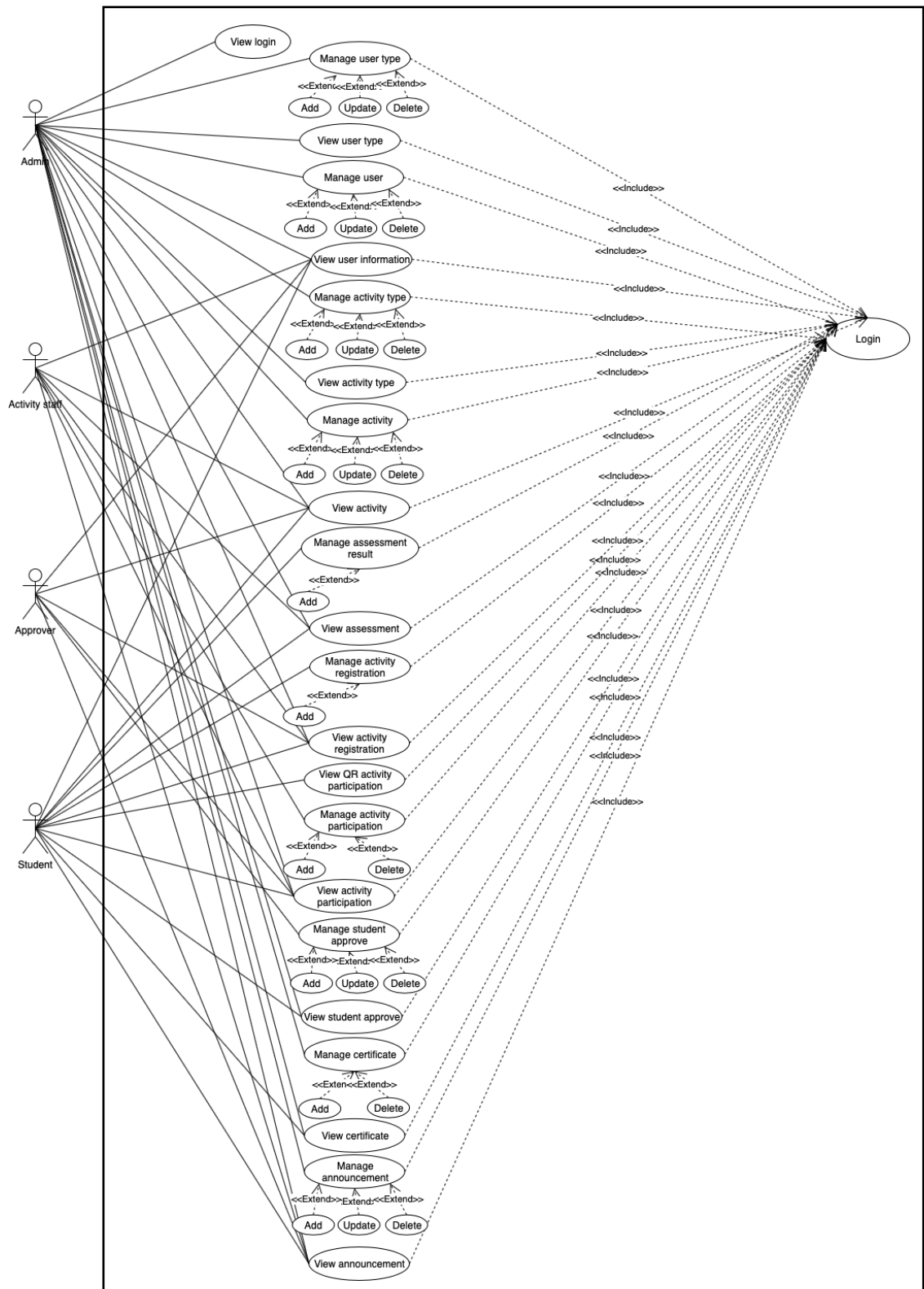


Figure 3.3: Use case diagram

3.3 Use case specification

REQ_01 Login

Use case name: Manage Login [Login]	ID: Req_01.1	Important Level: High
Actor(s): Admin, activity staff, approver, and student.		
Stakeholder and Interest: Admin, staff, and student want to enter to their system account.		
Brief description: This use case will be used to allow the users (Admin, staff, and student) to enter the system.		
Trigger: The user wants to enter the system. Type: External		
Relationship: Association: Admin, activity staff, approver, and student. Include: None Extend: Validate the account (user ID and password) Generalization: None		
Flow of events: 1. The user key-in their user ID and password on login page. 2. The user press Login Button. [A-1: Cancel]. 3. The system will validate user ID and password [E-1: Invalid user ID and password]. 4. The system will allow user enter to the system.		
Alternative/Exception Flows: A-1: Cancel Login. - The user can press the CANCEL button. E-1: Invalid user ID and password. - The system will display acknowledge message to reenter user ID and password.		

REQ_02 View Login history

Use case name: View Login history [View login history]	ID: Req_02.1	Important Level: Low
Actor(s): Admin.		
Stakeholder and Interest: Admin want to view Login history of all user.		
Brief description: This use case will be used to allow admin to view login history of all user.		
Trigger: The admin wants to view login history of all user. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The admin selects Login history on their control panel.2. The admin press view Button.3. The system will allow admin to view all Login history.		

REQ_03 Manage User Type

Use case name: Manage User Type [Add new user type]	ID: Req_03.1	Important Level: High
Actor(s): Admin.		
Stakeholder and Interest: Admin want to add new user type in the system.		
Brief description: This use case will be used to allow the admin to add, update, and delete user type in the system.		
Trigger: Admin want to add new user type in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Update [Req_03.2], Delete [Req_03.3], Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The admin selects manage user type on their control panel.2. The admin selects add new user type. [A-1: Update user type], [A-2: Delete user type].3. The system display add page to allow admin to add new user type.4. The admin type user type's information.5. The admin press ADD button [A-3: Cancel]6. The system will validate the entering data [E-1: Invalid entering data]7. The system end when the system display acknowledge message that user has been added.		
Alternative/Exception Flows: A-1: Update user type - The system will allow admin to update user type information. A-2: Delete user type - The system will allow admin to delete user type. A-3: Cancel - The system will cancel for add user type. E-1: Invalid entering data - The system will display error message and admin have to reenter the data.		

Use case name: Manage User Type [Update user type]	ID: Req_03.2	Important Level: High
Actor(s): Admin.		
Stakeholder and Interest: Admin want to update user type in the system.		
Brief description: This use case will be used to allow the admin to add, update, and delete user type in the system.		
Trigger: Admin want to add new user type in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Add [Req_03.1], Delete [Req_03.3] Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin selects manage user type on their control panel. 2. The admin selects update user type. [A-1: Add user type], [A-2: Delete user type] 3. The system display update page to allow admin to update user type information. 4. The admin type user type's information. 5. The admin press SAVE button [A-3: Cancel] 6. The system will validate the entering data [E-1: Invalid entering data]. 7. The system end when the system display acknowledge message that user type's information has been updated. 		
Alternative/Exception Flows: A-1: Add user type - The system will allow admin to add user type. A-2: Delete user type - The system will allow admin to delete user type. A-3: Cancel - The system will cancel for update user type. E-1: Invalid entering data - The system will display error message and admin have to reenter the data.		

Use case name: Manage User type [Delete user type]	ID: Req_03.3	Important Level: High
Actor(s): Admin.		
Stakeholder and Interest: Admin want to delete user type in the system.		
Brief description: This use case will be used to allow the admin to add, update, and delete user type in the system.		
Trigger: Admin want to add new user type in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Add [Req_03.1], Update [Req_03.2] Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin selects manage user type on their control panel. 2. The admin selects user type name and press DELETE button. [A-1: Add user type], [A-2: Update user type] 3. The system displays alert box for ask admin. 4. The admin presses OK button [A-3: Cancel] 5. The system end when the system display acknowledge message that user type has been deleted. 		
Alternative/Exception Flows: A-1: Add user type <ul style="list-style-type: none"> - The system will allow admin to add user type. A-2: Update user type <ul style="list-style-type: none"> - The system will allow admin to update user type's information. A-3: Cancel <ul style="list-style-type: none"> - The system will cancel for delete user type. 		

REQ_04 View User Type

Use case name: View User Type [View user type]	ID: Req_04.1	Important Level: Low
Actor(s): Admin.		
Stakeholder and Interest: Admin want to view user type.		
Brief description: This use case will be used to allow admin to view user type.		
Trigger: Admin want to view user type. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The admin selects manage user type on their control panel.2. The admin finds name of user type.3. The admin press view Button.4. The system will allow admin to view all user type.		

REQ_05 Manage User

Use case name: Manage User [Add new user]	ID: Req_05.1	Important Level: High
Actor(s): Admin.		
Stakeholder and Interest: Admin want to add new user in the system.		
Brief description: This use case will be used to allow the admin to add, update, and delete user in the system.		
Trigger: Admin want to add new user in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Update [Req_05.2], Delete [Req_05.3] Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The admin selects manage user on their control panel.2. The admin selects add new user. [A-1: Update user], [A-2: Delete user]3. The system display add page to allow admin to add new user.4. The admin type user information.5. The admin press ADD button [A-3: Cancel]6. The system will validate the entering data [E-1: Invalid entering data]7. The system end when the system display acknowledge message that user has been added.		
Alternative/Exception Flows: A-1: Update user - The system will allow admin to update user information. A-2: Delete user - The system will allow admin to delete user. A-3: Cancel - The system will cancel for add user. E-1: Invalid entering data - The system will display error message and admin have to reenter the data.		

Use case name: Manage User [Update user information]	ID: Req_05.2	Important Level: High
Actor(s): Admin.		
Stakeholder and Interest: Admin want to update user information in the system.		
Brief description: This use case will be used to allow the admin to add, update, and delete user in the system.		
Trigger: Admin want to update user information in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Add [Req_05.1], Delete [Req_05.3] Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin selects manage user on their control panel. 2. The admin selects update user. [A-1: Add user], [A-2: Delete user] 3. The system display update page to allow admin to update user information. 4. The admin type user information. 5. The admin press SAVE button [A-3: Cancel] 6. The system will validate the entering data [E-1: Invalid entering data] 7. The system end when the system display acknowledge message that user information has been updated. 		
Alternative/Exception Flows: <p>A-1: Add user</p> <ul style="list-style-type: none"> - The system will allow admin to add user. <p>A-2: Delete user</p> <ul style="list-style-type: none"> - The system will allow admin to delete user. <p>A-3: Cancel</p> <ul style="list-style-type: none"> - The system will cancel for update user. <p>E-1: Invalid entering data</p> <ul style="list-style-type: none"> - The system will display error message and admin have to reenter the data. 		

Use case name: Manage User [Delete user]	ID: Req_05.3	Important Level: High
Actor(s): Admin.		
Stakeholder and Interest: Admin want to delete user in the system.		
Brief description: This use case will be used to allow the admin to add, update, delete user in the system.		
Trigger: Admin want to delete user in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Add [Req_05.1], Update [Req_05.2] Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin selects manage user on their control panel. 2. The admin selects user name and press DELETE button. [A-1: Add user], [A-2: Update user] 3. The system displays alert box for ask admin. 4. The admin presses OK button [A-3: Cancel] 5. The system end when the system display acknowledge message that user has been deleted. 		
Alternative/Exception Flows: A-1: Add user - The system will allow admin to add user. A-2: Update user - The system will allow admin to update user information. A-3: Cancel - The system will cancel for delete user.		

Use case name: Manage User [Update their own information]	ID: Req_05.4	Important Level: High
Actor(s): All user.		
Stakeholder and Interest: The user wants to update their own information in the system.		
Brief description: This use case will be used to allow the user to update their own information in the system.		
Trigger: The user wants to update their own information in the system. Type: Internal		
Relationship: Association: Admin, activity staff, approver, and student. Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: <ul style="list-style-type: none"> • The user selects profile on their control panel. • The user selects update profile. • The system display update page to allow user to update their information. • The user types their information. • The user press SAVE button [A-3: Cancel] • The system will validate the entering data [E-1: Invalid entering data] • The system end when the system display acknowledge message that information has been updated. 		
Alternative/Exception Flows: A-1: Cancel <ul style="list-style-type: none"> - The system will cancel for update their information. E-1: Invalid entering data <ul style="list-style-type: none"> - The system will display error message and user have to reenter the data. 		

REQ_06 View User Information

Use case name: View User Information [View User Information]	ID: Req_06.1	Important Level: Low
Actor(s): Admin		
Stakeholder and Interest: Admin want to view user information.		
Brief description: This use case will be used to allow admin to view user information.		
Trigger: Admin want to view user information. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: 1. The admin selects view manage user on their control panel. 2. The admin finds name of user. 3. The admin press view Button. 4. The system will allow admin to view user information.		

Use case name: View User Information [view student information]	ID: Req_06.2	Important Level: Low
Actor(s): Staff		
Stakeholder and Interest: Staff want to view student information.		
Brief description: This use case will be used to allow staff to view student information.		
Trigger: Staff want to view student information. Type: Internal		
Relationship: Association: Staff. Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The staff selects view student on their control panel. 2. The staff finds name of student. 3. The staff press view Button. 4. The system will allow staff to view student information. 		

Use case name: View User Information [View their own information]	ID: Req_06.3	Important Level: Low
Actor(s): All user.		
Stakeholder and Interest: All user wants to view their own information.		
Brief description: This use case will be used to allow all user to view their own information.		
Trigger: All user wants to view their own information. Type: Internal		
Relationship: Association: All user. Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The user selects profile on their control panel. 2. The system will allow user to view their own information. 		

REQ_07 Manage Activity Type

Use case name: Manage Activity Type [Add new activity type]	ID: Req_07.1	Important Level: High
Actor(s): Admin.		
Stakeholder and Interest: Admin want to add new activity type in the system.		
Brief description: This use case will be used to allow the admin to add, update, and delete activity type in the system.		
Trigger: Admin want to add new activity type in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Update [Req_07.2], Delete [Req_07.3], Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The admin selects manage activity type on their control panel.2. The admin selects add new activity type. [A-1: Update activity type], [A-2: Delete activity type].3. The system display add page to allow admin to add new activity type.4. The admin type activity type's information.5. The admin press ADD button [A-3: Cancel]6. The system will validate the entering data [E-1: Invalid entering data]7. The system end when the system display acknowledge message that activity type has been added.		
Alternative/Exception Flows: A-1: Update activity type - The system will allow admin to update activity type information. A-2: Delete activity type - The system will allow admin to delete activity type. A-3: Cancel - The system will cancel for add activity type. E-1: Invalid entering data - The system will display error message and admin have to reenter the data.		

Use case name: Manage Activity Type [Update activity type]	ID: Req_07.2	Important Level: High
Actor(s): Admin.		
Stakeholder and Interest: Admin want to update activity type in the system.		
Brief description: This use case will be used to allow the admin to add, update, and delete activity type in the system.		
Trigger: Admin want to add new activity type in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Add [Req_07.1], Delete [Req_07.3] Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin selects manage activity type on their control panel. 2. The admin selects update activity type. [A-1: Add activity type], [A-2: Delete activity type] 3. The system display update page to allow admin to update activity type information. 4. The admin type activity type's information. 5. The admin press SAVE button [A-3: Cancel] 6. The system will validate the entering data [E-1: Invalid entering data]. 7. The system end when the system display acknowledge message that activity type's information has been updated. 		
Alternative/Exception Flows: <p>A-1: Add activity type</p> <ul style="list-style-type: none"> - The system will allow admin to add activity type. <p>A-2: Delete activity type</p> <ul style="list-style-type: none"> - The system will allow admin to delete activity type. <p>A-3: Cancel</p> <ul style="list-style-type: none"> - The system will cancel for update activity type. <p>E-1: Invalid entering data</p> <ul style="list-style-type: none"> - The system will display error message and admin have to reenter the data. 		

Use case name: Manage Activity type [Delete activity type]	ID: Req_07.3	Important Level: High
Actor(s): Admin.		
Stakeholder and Interest: Admin want to delete activity type in the system.		
Brief description: This use case will be used to allow the admin to add, update, and delete activity type in the system.		
Trigger: Admin want to add new activity type in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Add [Req_07.1], Update [Req_07.2] Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin selects manage activity type on their control panel. 6. The admin selects activity type name and press DELETE button. [A-1: Add activity type], [A-2: Update activity type] 7. The system displays alert box for ask admin. 8. The admin presses OK button [A-3: Cancel] 9. The system end when the system display acknowledge message that activity type has been deleted. 		
Alternative/Exception Flows: A-1: Add activity type - The system will allow admin to add activity type. A-2: Update activity type - The system will allow admin to update activity type's information. A-3: Cancel - The system will cancel for delete activity type.		

REQ_08 View Activity Type

Use case name: View Activity Type [View activity type]	ID: Req_08.1	Important Level: Low
Actor(s): Admin.		
Stakeholder and Interest: Admin want to view activity type.		
Brief description: This use case will be used to allow admin to view activity type.		
Trigger: Admin want to view activity type. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The admin selects manage activity type on their control panel.2. The admin finds name of activity type.3. The admin press view Button.4. The system will allow admin to view all activity type.		

REQ_09 Manage Activity

Use case name: Manage Activity [Add new activity]	ID: Req_09.1	Important Level: High
Actor(s): Admin.		
Stakeholder and Interest: Admin want to add new activity in the system.		
Brief description: This use case will be used to allow the admin to add, update, and delete activity in the system.		
Trigger: Admin want to add new activity in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Update [Req_09.2], Delete [Req_09.3], Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The admin selects manage activity on their control panel.2. The admin selects add new activity [A-1: Update activity], [A-2: Delete activity].3. The system display add page to allow admin to add new activity.4. The admin type activity information.5. The admin press ADD button [A-3: Cancel]6. The system will validate the entering data [E-1: Invalid entering data]7. The system end when the system display acknowledge message that activity has been added.		
Alternative/Exception Flows: A-1: Update activity - The system will allow admin to update activity information. A-2: Delete activity - The system will allow admin to delete activity. A-3: Cancel - The system will cancel for add activity. E-1: Invalid entering data - The system will display error message and admin have to reenter the data.		

Use case name: Manage Activity [Update activity]	ID: Req_09.2	Important Level: High
Actor(s): Admin.		
Stakeholder and Interest: Admin want to update activity in the system.		
Brief description: This use case will be used to allow the admin to add, update, and delete activity in the system.		
Trigger: Admin want to add new activity in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Add [Req_09.1], Delete [Req_09.3] Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin selects manage activity on their control panel. 2. The admin selects update activity [A-1: Add activity], [A-2: Delete activity] 3. The system display update page to allow admin to update activity information. 4. The admin type activity information. 5. The admin press SAVE button [A-3: Cancel] 6. The system will validate the entering data [E-1: Invalid entering data]. 7. The system end when the system display acknowledge message that activity information has been updated. 		
Alternative/Exception Flows: A-1: Add activity - The system will allow admin to add activity. A-2: Delete activity - The system will allow admin to delete activity. A-3: Cancel - The system will cancel for update activity. E-1: Invalid entering data - The system will display error message and admin have to reenter the data.		

Use case name: Manage Activity [Delete activity]	ID: Req_09.3	Important Level: High
Actor(s): Admin.		
Stakeholder and Interest: Admin want to delete activity in the system.		
Brief description: This use case will be used to allow the admin to add, update, and delete activity in the system.		
Trigger: Admin want to add new activity in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Add [Req_09.1], Update [Req_09.2] Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin selects manage activity on their control panel. 2. The admin selects activity name and press DELETE button. [A-1: Add activity], [A-2: Update activity] 3. The system displays alert box for ask admin. 4. The admin presses OK button [A-3: Cancel] 5. The system end when the system display acknowledge message that activity has been deleted. 		
Alternative/Exception Flows: A-1: Add activity - The system will allow admin to add activity. A-2: Update activity - The system will allow admin to update activity information. A-3: Cancel - The system will cancel for delete activity.		

REQ_10 View Activity

Use case name: View Activity [View activity]	ID: Req_10.1	Important Level: High
Actor(s): All user		
Stakeholder and Interest: All user wants to view activity.		
Brief description: This use case will be used to allow all user to view activity.		
Trigger: All user wants to view activity. Type: Internal		
Relationship: Association: All user. Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The admin selects manage activity on their control panel.2. The admin finds name of activity.3. The admin press view Button.4. The system will allow admin to view all activity.		

REQ_11 Manage Assessment Result

Use case name: Manage Assessment Result [Add assessment result]	ID: Req_11.1	Important Level: High
Actor(s): Participant student.		
Stakeholder and Interest: Participant student want to add assessment result in the system.		
Brief description: This use case will be used to allow the participant student can add assessment result in the system.		
Trigger: Participant student want to add assessment result in the system. Type: Internal		
Relationship: Association: Participant student. Include: Login [Req_01.1], Activity Participation [Req_15.2] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The participant student selects activity participation on their control panel.2. The admin finds name of activity.3. The participant student selects DO ASSESSMENT button.4. The system displays an add assessment result page to allow participant student to add assessment result.5. The participant student type assessment result.6. The participant student press SENT button [A-1: Cancel]7. The system will validate the entering data [E-1: Invalid entering data]8. The system end when the system display acknowledge message that assessment result has been added.		
Alternative/Exception Flows: A-1: Cancel - The system will cancel for add assessment result. E-1: Invalid entering data - The system will display error message and admin have to reenter the data.		

REQ_12 View Assessment

Use case name: View Assessment [View assessment]	ID: Req_12.1	Important Level: High
Actor(s): Participant student.		
Stakeholder and Interest: Participant student want to view assessment.		
Brief description: This use case will be used to allow participant student to view assessment.		
Trigger: Participant student want to view assessment. Type: Internal		
Relationship: Association: Participant student. Include: Login [Req_01.1], Activity Participation [Req_15.2] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The participant student selects activity participant on their control panel.2. The admin finds name of activity.3. The participant student selects DO ASSESSMENT button.4. The system will allow participant student to view assessment.		

Use case name: View Assessment [View assessment result]	ID: Req_12.2	Important Level: High
Actor(s): Admin and activity staff.		
Stakeholder and Interest: Admin and activity staff want to view assessment result.		
Brief description: This use case will be used to allow admin and activity staff to view assessment result.		
Trigger: Admin and activity staff want to view assessment result. Type: Internal		
Relationship: Association: Admin and activity staff. Include: Login [Req_01.1], Assessment Result [Req_11.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin and activity staff select manage activity on their control panel. 2. The admin and activity staff find name of activity. 3. The admin and activity staff select VIEW ASSESSMENT RESULT button. 4. The system will allow admin and activity staff to view assessment. 		

REQ_13 Manage Activity Registration

Use case name: Manage Activity Registration [Register activity]	ID: Req_13.1	Important Level: High
Actor(s): Student.		
Stakeholder and Interest: Student want to register the activity to their system account.		
Brief description: This use case will be used to allow student to register the activity to their system.		
Trigger: The student wants to register the activity to their system. Type: Internal.		
Relationship: Association: Student. Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The student selects homepage or activity registration on their control panel.2. The student selects activity and press Register button [A-1: Cancel].3. The system will validate the entering data [E-1: Invalid entering data]4. The system end when the system display acknowledge message that activity has been Regis.		
Alternative/Exception Flows: A-1: Cancel Register activity. <ul style="list-style-type: none">- The student can press the CANCEL button. E-1: Invalid entering data <ul style="list-style-type: none">- The system will display error message and student have to reenter the data.		

REQ_14 View Activity Register Name

Use case name: View Activity Register Name [View Activity Register Name]	ID: Req_14.1	Important Level: Low
Actor(s): All user		
Stakeholder and Interest: All user wants to view activity register name.		
Brief description: This use case will be used to allow all user to view activity register name.		
Trigger: All user wants to view activity register name. Type: Internal and External		
Relationship: Association: All user. Include: Login [Req_01.1], Register activity [Req_13.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The user selects activity registration on their control panel.2. The user select activity and press the Candidate list.3. The system will allow user to view activity register name.		

REQ_15 View QR activity participation

Use case name: View QR activity participation [View QR activity participation]	ID: Req_15.1	Important Level: High
Actor(s): Student		
Stakeholder and Interest: Student want to view their own QR activity participation.		
Brief description: This use case will be used to allow student to view their own QR activity participation.		
Trigger: Student want to view their own QR activity participation. Type: Internal		
Relationship: Association: Student Include: Login [Req_01.1], Register activity [Req_13.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The student selects activity registration on their control panel.2. The student selects registered page and press the QR activity participation.3. The system will allow user to view QR activity participation.		

REQ_16 Manage Activity Participation

Use case name: Manage Activity Participation [add ID of their own student activity participation]	ID: Req_16.1	Important Level: High
Actor(s): Activity staff.		
Stakeholder and Interest: Activity staff want to add ID of their own student activity participation in the system.		
Brief description: This use case will be used to allow activity staff add and delete ID of their own student activity participation in the system.		
Trigger: Activity staff want to add ID of their own student activity participation in the system. Type: Internal		
Relationship: Association: Activity staff. Include: Login [Req_01.1] Extend: Delete [Req_16.2] Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The activity staff selects activity participation on their control panel.2. The activity staff selects Add student participation button [A-1: Delete].3. The system displays an add student participation page to allow activity staff to add student activity participation.4. The activity staff type ID of student activity participation or scan QR.5. The activity staff press SENT button [A-2: Cancel]6. The system will validate the entering data [E-1: Invalid entering data]7. The system end when the system display acknowledge message that student activity participation has been added.		
Alternative/Exception Flows: A-1: Delete ID of their own student activity participation. <ul style="list-style-type: none">- The system will allow activity staff to delete ID of their own student activity participation. A-2: Cancel <ul style="list-style-type: none">- The system will cancel for add ID of their own student activity participation. E-1: Invalid entering data <ul style="list-style-type: none">- The system will display error message and admin have to reenter the data.		

Use case name: Manage Activity Participation [Delete ID of their own student activity participation]	ID: Req_16.2	Important Level: High
Actor(s): Activity staff.		
Stakeholder and Interest: Activity staff want to delete ID of their own student activity participation in the system.		
Brief description: This use case will be used to allow activity staff add and delete ID of their own student activity participation in the system.		
Trigger: Activity staff want to delete ID of their own student activity participation in the system. Type: Internal		
Relationship: Association: Activity staff. Include: Login [Req_01.1] Extend: Add [Req_16.1] Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The activity staff selects activity participation on their control panel. 2. The activity staff selects ID of student activity participation and press DELETE button. [A-1: Add ID of student activity participation]. 3. The system displays alert box for ask activity staff. 4. The activity staff presses OK button [A-2: Cancel] 5. The system end when the system display acknowledge message that ID of student activity participation has been deleted. 		
Alternative/Exception Flows: <p>A-1: Add ID of their own student activity participation.</p> <ul style="list-style-type: none"> - The system will allow activity staff to add ID of their own student activity participation. <p>A-2: Cancel</p> <ul style="list-style-type: none"> - The system will cancel for delete ID of their own student activity participation. <p>E-1: Invalid entering data</p> <ul style="list-style-type: none"> - The system will display error message and admin have to reenter the data. 		

REQ_17 View Activity Participation

Use case name: View Activity Participation [View name of their own student activity participation.]	ID: Req_17.1	Important Level: High
Actor(s): Activity staff		
Stakeholder and Interest: Activity staff want to view name of their own student activity participation.		
Brief description: This use case will be used to allow activity staff to view name of their own student activity participation.		
Trigger: Activity staff want to view name of their own student activity participation. Type: Internal		
Relationship: Association: Activity staff. Include: Login [Req_01.1], Activity participation [Req_16.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The activity participation selects activity participation on their control panel.2. The system will allow user to view student activity participation.		

Use case name: View Activity Participation [View history of student activity participation of each student.]	ID: Req_17.2	Important Level: High
Actor(s): Admin and approver		
Stakeholder and Interest: Admin and approver want to view history of student activity participation of each student in the system.		
Brief description: This use case will be used to allow admin and approver view history of student activity participation of each student in the system.		
Trigger: Admin and approver want to view history of student activity participation of each student in the system. Type: Internal		
Relationship: Association: Admin and approver. Include: Login [Req_01.1], Activity participation [Req_16.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin and approver select activity participation on their control panel. 2. The admin and approver select student ID and press View history of student activity participation. 3. The system will allow user to view history of student activity participation. 		

Use case name: View Activity Participation [View history of their own student activity participation]	ID: Req_17.3	Important Level: Low
Actor(s): Student		
Stakeholder and Interest: Student want to view history of their own student activity participation in the system.		
Brief description: This use case will be used to allow student view history of their own student activity participation.in the system.		
Trigger: Student want to view history of their own student activity participation in the system. Type: Internal		
Relationship: Association: Student. Include: Login [Req_01.1], Assessment result [Req_11.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The student selects activity participation on their control panel. 2. The system will allow student to view history of their own student activity participation. 		

REQ_18 Manage Student Approver

Use case name: Manage Student Approve [add student approve]	ID: Req_18.1	Important Level: High
Actor(s): Approver		
Stakeholder and Interest: Approver want to add student approve in the system.		
Brief description: This use case will be used to allow approver add, update, and delete student approve in the system.		
Trigger: Approver want to add student approve in the system. Type: Internal		
Relationship: Association: Approver. Include: Login [Req_01.1], View Activity Participation [Req_17.1] Extend: Update [Req_18.2], Delete [Req_18.3] Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The approver selects activity participation on their control panel.2. The approver selects student ID and press View history of student activity participation.3. The system will allow user to view history of student activity participation.4. The approver Add student approve [A-1: Update], [A-2: Delete].5. The system will validate the entering data [E-1: Invalid entering data]6. The system end when the system display acknowledge message that student approve has been added.		
Alternative/Exception Flows: A-1: Update student approve - The system will allow approver update student approve. A-2: Delete student approve - The system will allow approver delete student approve. E-1: Invalid entering data - The system will display error message and approver have to reenter the data.		

Use case name: Manage Student Approve [Update student approve]	ID: Req_18.2	Important Level: High
Actor(s): Approver		
Stakeholder and Interest: Approver want to update student approve in the system.		
Brief description: This use case will be used to allow approver add, update, and delete student approve in the system.		
Trigger: Approver want to update student approve in the system. Type: Internal		
Relationship: Association: Approver. Include: Login [Req_01.1], View Activity Participation [Req_17.1] Extend: Add [Req_18.1], Delete [Req_18.3] Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The approver selects activity participation on their control panel. 2. The approver selects view student approve of activity participation page. 3. The system will allow permission staff view student approve of activity participation. 4. The approver selects student ID and press update button [A-1: Add], [A-2: Delete]. 5. The system display update page to allow approver to update student approve information. 6. The approver type student approves information. 7. The approver press SAVE button [A-3: Cancel] 8. The system will validate the entering data [E-1: Invalid entering data]. 9. The system end when the system display acknowledge message that student approve information has been updated. 		
Alternative/Exception Flows: <p>A-1: Add student approve</p> <ul style="list-style-type: none"> - The system will allow approver Add student approve. <p>A-2: Delete student approve</p> <ul style="list-style-type: none"> - The system will allow approver delete student approve. <p>A-3: Cancel</p> <ul style="list-style-type: none"> - The system will cancel for update student approve. <p>E-1: Invalid entering data</p> <ul style="list-style-type: none"> - The system will display error message and approver have to reenter the data. 		

Use case name: Manage Student Approve [Delete student approve]	ID: Req_18.3	Important Level: High
Actor(s): Approver.		
Stakeholder and Interest: Approver want to delete student approve in the system.		
Brief description: This use case will be used to allow approver add, update, and delete student approve in the system.		
Trigger: Approver want to delete student approve in the system. Type: Internal		
Relationship: Association: Approver. Include: Login [Req_01.1] Extend: Add [Req_18.1], Update [Req_18.2] Generalization: None		
Flow of events: 1. The approver selects activity participation on their control panel. 2. The approver selects view student approve of activity participation page. 3. The system will allow approver view student approve of activity participation. 4. The approver selects student ID and press delete button [A-1: Add], [A-2: Update]. 6. The system displays alert box for ask approver. 7. The approver presses OK button [A-3: Cancel] 8. The system end when the system display acknowledge message that student approve has been deleted.		
Alternative/Exception Flows: A-1: Add student approve. - The system will allow activity staff to add student approve. A-2: Update student approve. - The system will allow activity staff to update student approve. A-3: Cancel - The system will cancel for delete student approve. E-1: Invalid entering data - The system will display error message and approver have to reenter the data.		

REQ_19 View Student Approver

Use case name: View Student Approve [View student approve of activity participation]	ID: Req_19.1	Important Level: High
Actor(s): Admin and approver.		
Stakeholder and Interest: Admin and permission staff want to view student approve of activity participation in the system.		
Brief description: This use case will be used to allow admin and approver view student approve of activity participation in the system.		
Trigger: Admin and approver want to view student approve of activity participation Type: Internal		
Relationship: Association: Admin and approver. Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: 1. The approver selects activity participation on their control panel. 2. The approver selects view student approve of activity participation page. 3. The system will allow approver view student approve of activity participation.		

Use case name: View Student Approve [View their own student approve of activity participation]	ID: Req_19.2	Important Level: High
Actor(s): Student		
Stakeholder and Interest: Student want to view their own student approve of activity participation in the system.		
Brief description: This use case will be used to allow student view their own student approve of activity participation in the system.		
Trigger: Student want to view their own student approve of activity participation. Type: Internal		
Relationship: Association: Student Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The student selects activity participation on their control panel. 2. The system will allow student view student approve of activity participation. 		

REQ_20 Manage Certificate

Use case name: Manage Certificate [Add certificate]	ID: Req_20.1	Important Level: High
Actor(s): Admin.		
Stakeholder and Interest: Admin want to add certificate in the system.		
Brief description: This use case will be used to allow the admin to add, and delete certificate in the system.		
Trigger: Admin want to add certificate in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Delete [Req_20.3], Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The admin selects activity participation on their control panel.2. The admin selects view student permission of activity participation page.3. The system will allow admin view student permission of activity participation.4. The admin selects student ID.5. The admin add certificate [A-1: Delete].6. The system will validate the entering data [E-1: Invalid entering data]7. The system end when the system display acknowledge message that certificate has been added.		
Alternative/Exception Flows: A-1: Delete certificate - The system will allow admin to delete certificate. A-2: Cancel - The system will cancel for add certificate. E-1: Invalid entering data - The system will display error message and admin have to reenter the data.		

Use case name: Manage Certificate [Delete certificate]	ID: Req_20.2	Important Level: High
Actor(s): Admin		
Stakeholder and Interest: Admin want to delete certificate in the system.		
Brief description: This use case will be used to allow the admin to add, and delete certificate in the system.		
Trigger: Admin want to delete certificate in the system. Type: Internal		
Relationship: Association: Admin Include: Login [Req_01.1] Extend: Add [Req_20.1] Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin selects activity participation on their control panel. 2. The admin selects view student permission of activity participation page. 3. The system will allow admin view student permission of activity participation. 4. The admin selects student ID. 5. The admin delete certificate [A-1: Add]. 9. The system displays alert box for ask admin. 10. The admin presses OK button [A-2: Cancel] 11. The system end when the system display acknowledge message that certificate has been deleted. 		
Alternative/Exception Flows: <p>A-1: Add certificate.</p> <ul style="list-style-type: none"> - The system will allow activity staff to add certificate. <p>A-2: Cancel</p> <ul style="list-style-type: none"> - The system will cancel for delete certificate. <p>E-1: Invalid entering data</p> <ul style="list-style-type: none"> - The system will display error message and admin have to reenter the data. 		

REQ_21 View Certificate

Use case name: View Certificate [View certificate]	ID: Req_21.1	Important Level: Low
Actor(s): Admin and student.		
Stakeholder and Interest: Admin and student want to view certificate.		
Brief description: This use case will be used to allow admin and student want to view certificate.		
Trigger: Admin and student want to view certificate. Type: Internal		
Relationship: Association: Admin and student. Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: 1. The admin and student go to certificate page on their own control panel. 2. The system will allow admin and student to view certificate.		

Use case name: View Certificate [Download certificate]	ID: Req_21.2	Important Level: Low
Actor(s): Admin and student.		
Stakeholder and Interest: Admin and student want to download certificate.		
Brief description: This use case will be used to allow admin and student want to view, download certificate.		
Trigger: Admin and student want to download certificate. Type: Internal		
Relationship: Association: Admin and student. Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin and student go to certificate page on their own control panel. 2. The system will allow admin and student to view certificate. 3. The admin and student press download icon. 4. The system will download file. 		

Use case name: View Certificate [Print certificate]	ID: Req_21.3	Important Level: High
Actor(s): Admin and student.		
Stakeholder and Interest: Admin and student want to print certificate.		
Brief description: This use case will be used to allow admin and student want to view, download, print certificate.		
Trigger: Admin and student want to print certificate. Type: Internal		
Relationship: Association: Admin and student. Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin and student go to certificate page on their own control panel. 2. The system will allow admin and student to view certificate. 3. The admin and student press print icon. 4. The system will print file. 		

REQ_22 Manage Announcement

Use case name: Manage Announcement [add new announcement]	ID: Req_22.1	Important Level: Low
Actor(s): Admin		
Stakeholder and Interest: Admin want to add new announcement in the system.		
Brief description: This use case will be used to allow admin add, update, and delete announcement. in the system.		
Trigger: Admin want to add new announcement in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Update [Req_22.2], Delete [Req_22.3] Generalization: None		
Flow of events: <ol style="list-style-type: none">1. The admin selects manage announcement on their control panel.2. The admin selects add new announcement. [A-1: Update announcement], [A-2: Delete announcement].3. The system display add page to allow admin to add new announcement.4. The admin type announcement information.5. The admin press ADD button [A-3: Cancel]6. The system will validate the entering data [E-1: Invalid entering data]7. The system end when the system display acknowledge message that announcement has been added.		
Alternative/Exception Flows: A-1: Update announcement <ul style="list-style-type: none">- The system will allow admin update announcement. A-2: Delete announcement <ul style="list-style-type: none">- The system will allow admin delete announcement. E-1: Invalid entering data <ul style="list-style-type: none">- The system will display error message and admin have to reenter the data.		

Use case name: Manage Announcement [Update announcement]	ID: Req_22.2	Important Level: Low
Actor(s): Admin.		
Stakeholder and Interest: Admin want to update announcement in the system.		
Brief description: This use case will be used to allow the admin to add, update, and delete announcement in the system.		
Trigger: Admin want to update announcement in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Add [Req_22.1], Delete [Req_22.3] Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin selects manage announcement on their control panel. 2. The admin selects update announcement. [A-1: Add announcement], [A-2: Delete announcement] 3. The system display update page to allow admin to update announcement information. 4. The admin type announcement information. 5. The admin press SAVE button [A-3: Cancel] 6. The system will validate the entering data [E-1: Invalid entering data]. 7. The system end when the system display acknowledge message that announcement information has been updated. 		
Alternative/Exception Flows: A-1: Add announcement - The system will allow admin to add announcement. A-2: Delete announcement - The system will allow admin to delete announcement. A-3: Cancel - The system will cancel for update announcement. E-1: Invalid entering data - The system will display error message and admin have to reenter the data.		

Use case name: Manage Announcement [Delete announcement]	ID: Req_22.3	Important Level: Low
Actor(s): Admin.		
Stakeholder and Interest: Admin want to delete announcement in the system.		
Brief description: This use case will be used to allow the admin to add, update, and delete announcement in the system.		
Trigger: Admin want to delete announcement in the system. Type: Internal		
Relationship: Association: Admin. Include: Login [Req_01.1] Extend: Add [Req_22.1], Update [Req_22.2] Generalization: None		
Flow of events: <ol style="list-style-type: none"> 1. The admin selects manage announcement on their control panel. 2. The admin selects announcement and press DELETE button. [A-1: Add announcement], [A-2: Update announcement] 3. The system displays alert box for ask admin. 4. The admin presses OK button [A-3: Cancel] 5. The system end when the system display acknowledge message that announcement has been deleted. 		
Alternative/Exception Flows: A-1: Add announcement - The system will allow admin to add announcement. A-2: Update announcement - The system will allow admin to update announcement. A-3: Cancel - The system will cancel for delete announcement.		

REQ_23 View Announcement

Use case name: View Announcement [View announcement]	ID: Req_23.1	Important Level: Low
Actor(s): All user.		
Stakeholder and Interest: All user wants to view announcement.		
Brief description: This use case will be used to allow user to view announcement.		
Trigger: All user wants to view announcement. Type: Internal		
Relationship: Association: All user. Include: Login [Req_01.1] Extend: None Generalization: None		
Flow of events: 1. The user goes to homepage. 2. The system will allow user to view announcement.		

