Use Case ID	UC-01			
Use Case Name	Create a course			
Created By	Pasakorn Kunchai	Last Update By	Apiwat Hantrakool	
Date Created	26/2/2018	Last Revision Date	28/2/2018	
Actors	Administrator			
Description	Administrator can create a course by inputti	ng course information which are course	e name, course id, maximum seat,	
	credit, teacher(s), semester and academic year.			
Trigger	Administrator select "add course" menu.			
Preconditions	Administrator must login by administrator ac	count.		
	Use Case	Input Specification		
Input	type	Constraint	Example	
Course name	string	-	Abstract data type	
Course ID	string	Length must be 6	953111	
Maximum seat	number	=	120	
Credit	number	-	3	
Teacher	string	-	Alex	
Semester	string	-	1	
Academic year	number	-	2561	
Post conditions	1. The course is displayed on the course list	page.		
	2. The course is added into the database.			
Normal Flows	User	Syste	m	
		1. The system shall provide text field	s for inputting course information.	
		2. The system shall provide "Add Cou	urse" button.	
	3. Administrator input course information.			
	4. Administrator select "Add Course"			
	button	5. The system shall validate course in	formation.	
		6. The system shall collect information into the database.		
		7. The system shall display course list	t page.	
Alternative Flow	-			
Exception Flow	-			
Assumption	Administrator must understand English.			

Use Case ID	UC-02			
Use Case Name	Enroll a course			
Created By	Pasakorn Kunchai Last Update By Apiwat Hantrakool			
Date Created	26/2/2018	Last Revision Date	28/2/2018	
Actors	Student			
Description	Student can enroll a course by select "Enro	ll" button at the right of course name i	n course list page.	
Trigger	Student select "Enroll" button.			
Preconditions	1. Student must in the course list page.			
	2. Student must login by student account.			
	Use Case	nput Specification		
Input	type	Constraint	Example	
=	-	=	=	
Post conditions	1. The course is displayed on the Student in	formation page.		
	2. The course is added into the database.			
Normal Flows	User	Syste	m	
		1. The system shall validate student a	and course information. [E1]	
		2. The system shall collect information	n into the database.	
		3. The system shall display student in	formation page.	
Alternative Flow	-			
Exception Flow	E1: if student have more than 22 credits.			
	1. The system shall display "You cannot er	nroll a course more than 22 credits" v	hen student have more than 22	
	credits.			
	2. The system shall display student information page.			
Assumption	Student must understand English.			

Use Case ID	UC-03			
Use Case Name	View all courses			
Created By	Pasakorn Kunchai Last Update By Apiwat Hantrakool			
Date Created	26/2/2018	Last Revision Date	28/2/2018	
Actors	Student			
Description	Student can view all course including course	e ID and course name.		
Trigger	Student select "Course lists" menu.			
Preconditions	Student must login by student account.			
	Use Case	Input Specification		
Input	type	Constraint Example		
-	-	-	-	
Post conditions	The course lists are displayed on the course	lists page.		
Normal Flows	User	Syster	m	
		1. The system shall retrieve course in	formation from the database.	
		2. The system shall display course lis	ts including course ID and course	
		name.		
Alternative Flow	-			
Exception Flow	-			
Assumption	Student must understand English.			

Use Case ID	UC-04			
Use Case Name	View course details			
Created By	Apiwat Hantrakool Last Update By Apiwat Hantrakool			
Date Created	26/2/2018	Last Revision Date	28/2/2018	
Actors	Student and Teacher			
Description	Teacher and student can view details of eac	h course.		
Trigger	1. Student selects "View" button next to co	urse name in enrolled course list.		
	2. Teacher selects "View" button next to co	urse name in teaching course list.		
	3. Teacher and student selects "View" butto	on next to course name in course list pa	age.	
Preconditions	1. Student must login by student account.			
	2. Student must already in student informati	on page or course list page.		
	3. Teacher must login by teacher account.			
	4. Teacher must already in teacher informati	on page or course list page.		
	Use Case	nput Specification		
Input	type	Constraint	Example	
-	-	-	-	
Post conditions	The course details are displayed on the view	v course page.		
Normal Flows	User	System	m	
		1. The system shall retrieve course in	formation from the database.	
		2. The system shall display details	or information of the course,	
		including course name, course ID, course seat, credit and teacher		
	names.			
Alternative Flow	-			
Exception Flow	-			
Assumption	1. Student must understand English.			
	2. Teacher must understand English.			

Use Case ID	UC-05			
Use Case Name	View enrolled course list			
Created By	Apiwat Hantrakool	Last Update By	Apiwat Hantrakool	
Date Created	26/2/2018	Last Revision Date	28/2/2018	
Actors	Student			
Description	Student can view list of course that were er	nrolled.		
Trigger	Student select "Student Information" menu	ı.		
Preconditions	Student must login by student account.			
	Use Case	Input Specification		
Input	type	Constraint	Example	
=	-	-	-	
Post conditions	The course list, that student enrolled, is dis	olayed.		
Normal Flows	User	Syste	m	
		1. The system shall retrieve cours	e information that the student	
		enrolled from the database.		
		2. The system shall display enrolled	d course list, including sequence	
		number of each course, course ID, course name, credit and total of the		
		credit.		
Alternative Flow	-			
Exception Flow	-			
Assumption	Student must understand English.			

Use Case ID	UC-06			
Use Case Name	Remove a course			
Created By	Apiwat Hantrakool	Last Update By	Apiwat Hantrakool	
Date Created	26/2/2018	Last Revision Date	28/2/2018	
Actors	Student			
Description	Student can remove a course.			
Trigger	Student select "Remove" button next to co	ourse name in enrolled course list.		
Preconditions	1. Student must login by student account.			
	2. Student must already in student informati	ion page.		
	Use Case Input Specification			
Input	type	Constraint	Example	
-	-	-	-	
Post conditions	The course is removed from the enrolled co	ourse list of the student.		
Normal Flows	User	Syste	m	
		1. System shall display text alert box	or pop-up as confirm box that has	
		a message that "Are you sure to remo	ove this course?" box.	
	2. Student click "Yes" button. [E1]			
		3. System shall remove the inforr	nation of the course from the	
		student's enrolled list of the databas	e.	
		4. System shall show update enroll	ed course list that the course is	
		removed.		
Alternative Flow	-			
Exception Flow	E1: Student select "No" button			
	1. If student click "No" button, the system close pop-up and do not do anything.			
	2. End of use case.			
Assumption	Student must understand English.			

Use Case ID	UC-07				
Use Case Name	View tuition fee.				
Created By	Apiwat Hantrakool	Last Update By	Apiwat Hantrakool		
Date Created	26/2/2018	Last Revision Date	28/2/2018		
Actors	Student				
Description	Student can view tuition fee of courses that	were enrolled.			
Trigger	Student select "Student Information" menu				
Preconditions	Student must login by student account.				
	Use Case Input Specification				
Input	type	Constraint	Example		
=	-	-	-		
Post conditions	The tuition fee is displayed on the student i	nformation page.			
Normal Flows	User	Syster	m		
		1. The system shall retrieve cours	e information that the student		
		enrolled from the database.			
		2. The system shall calculate the tu	uition fee by 20 THB per course		
		credits.			
		3. The system shall display the tuition	n fee.		
Alternative Flow	-				
Exception Flow	-				
Assumption	Student must understand English.				

Use Case ID	UC-08			
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Use Case Name	View student GPA			
Created By	Apiwat Hantrakool	Last Update By	Apiwat Hantrakool	
Date Created	26/2/2018	Last Revision Date	28/2/2018	
Actors	Student			
Description	Student view own GPA of the courses that v	vere enrolled.		
Trigger	Student select "View GPA" button.			
Preconditions	1. Student must login by student account.			
	2. Student must already in student informat	ion page.		
	Use Case	Input Specification		
Input	type	Constraint	Example	
-	-	-	-	
Post conditions	The GPA will be displayed.			
Normal Flows	User	Syste	m	
		1. The system shall retrieve grade i	nformation of the student of all	
		course that student enrolled from the	e database.	
		2. The system shall calculate the GPA	A from the grades.	
		3. The system shall display GPA, incl	uding list of enrolled course with	
		grade of each course, GPA of this semester, total GPA.		
Alternative Flow	-	I		
Exception Flow	-			
Assumption	Student must understand English.			

Use Case ID	UC-09			
Use Case Name	View teaching course list			
Created By	Apiwat Hantrakool Last Update By Apiwat Hantrakool			
Date Created	27/2/2018	Last Revision Date	28/2/2018	
Actors	Teacher			
Description	Teacher can view list of course that they tea	ach.		
Trigger	Teacher select "Teacher Information" menu	l.		
Preconditions	Teacher must login by teacher account.			
Use Case Input Specification				
Input	type	Constraint	Example	
-	-	-	=	
Post conditions	The course list that teacher taught is display	red.		
Normal Flows	User	Syster	m	
		1. The system shall retrieve course in	formation that the teacher taught	
		from the database.		
		2. The system shall display teaching c	ourse list, including course ID and	
		course name.		
Alternative Flow	-			
Exception Flow	-			
Assumption	Teacher must understand English.			

Use Case ID	UC-10		
Use Case Name	Put the grade		
Created By	Apiwat Hantrakool	Last Update By	Apiwat Hantrakool
Date Created	27/2/2018	Last Revision Date	28/2/2018
		Last Revision Date	20/2/2010
Actors	Teacher		
Description	Teacher can grade for students in each cour		
Trigger	Teacher select "Grading" button next to col	urse name in teaching course list.	
Preconditions	Teacher must login by teacher account.		
	2. Teacher must already in the "teacher info		
	Use Case	Input Specification	
Input	type	Constraint	Example
Grade	String with scroll down value	A, B, C, D, F which integer values are	A
		4, 3, 2, 1, 0 respectively.	
Post conditions	The grade of each student will be put to the	e database.	
Normal Flows	User	Syste	m
		1. The system shall provide course gr	ading interface in "grading" page.
		2. The system shall show list of studer	nts in the course including student
		ID and student name.	
		3. The system shall provide scroll do	wn button next to student name
		consist value of A, B, C, D and F which	values are 4, 3, 2, 1 respectively.
		4. The system provide "Submit" butt	on.
	5. Teacher select value of the scroll down		
	button.		
		6. The system shall calculate the grade	e summary and GPA of the course.
		7. The system shall display the grade	summary and GPA of the course
		that relate to the student grades.	
	8. Teacher click "Submit" button.	-	
		9. The system shall put the grade	value of each student to the
		database.	
Alternative Flow	-		
Exception Flow	-		
Assumption	Teacher must understand English.		

Use Case ID	UC-11			
Use Case Name	View grade summary			
Created By	Apiwat Hantrakool Last Update By Apiwat Hantrakool			
Date Created	27/2/2018	Last Revision Date	28/2/2018	
Actors	Teacher			
Description	Teacher can see the summary of the grade t	they give to the student.		
Trigger	Teacher select "Grading" button next to cou	urse name in teaching course list.		
Preconditions	1. Teacher must login by teacher account.			
	2. Teacher must already in the "teacher info	rmation" page.		
	3. Teacher must already grade to student.			
	Use Case I	Input Specification		
Input	type	Constraint	Example	
-	-	-	-	
Post conditions	The grade summary will be display.			
Normal Flows	User	Syster	m	
		1. The system shall provide course gra	ading interface in "grading" page.	
		2. The system shall show list of studer	nts in the course including student	
		ID and student name.		
		3. The system shall display the summary of the grade they give to the		
		student as the distribution of each grade.		
Alternative Flow	-			
Exception Flow	-			
Assumption	Teacher must understand English.	·		

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Use Case ID	UC-12			
Use Case Name	View GPA of course			
Created By	Apiwat Hantrakool Last Update By Apiwat Hantrakool			
Date Created	28/2/2018	Last Revision Date	28/2/2018	
Actors	Teacher			
Description	Teacher can see the GPA of the course that	is grade average of student in the cours	5e.	
Trigger	Teacher select "Grading" button next to co	urse name in teaching course list.		
Preconditions	1. Teacher must login by teacher account.			
	2. Teacher must already in the "teacher info	ormation" page.		
	3. Teacher must already grade to student.			
	Use Case	Input Specification		
Input	type	Constraint	Example	
=	-	=	=	
Post conditions	The GPA of the course will be displays.			
Normal Flows	User	Syste	m	
		1. The system shall provide course gr	ading interface in "grading" page.	
		2. The system shall show list of studer	nts in the course including student	
		ID and student name.		
		3. The system shall display the GPA of the course from calculate the		
	average of grade of all student in the course.			
Alternative Flow	-			
Exception Flow	-			
Assumption	Teacher must understand English.			

Use Case ID	UC-13				
Use Case Name	Login				
Created By	Apiwat Hantrakool	Last Update By	Apiwat Hantrakool		
Date Created	28/2/2018	Last Revision Date	28/2/2018		
Actors/Users	Administrator, Teacher, Student				
Description	Users or actors can login to access the system by using their account including e-mail and password.				
Trigger	User starts to the system.				
Preconditions	User does not log in yet.				
	Use Case	Input Specification			
Input	type	Constraint	Example		
E-mail	string	Must be Email form, and no blank space	nekky.apiwat@hotmail.com		
Password	string	No blank space	nekky123456789		
Post conditions	User can access to the system.				
Normal Flows	User	System			
		1. System shall provide "Login" interface.			
		2. System shall provide "E-mail" input text box.			
		3. System shall provide "Password" input text box.			
		4. System shall provide "Login" button.			
	5. User input user name in the "E-mail"				
	input text box				
	6. User input user password in the				
	"password" input text box.				
	7. User click "Login" button.				
		8. System shall validate the E-mail and the password. [A1], [A2], [A3]			
Alternative Flow	A1: User input incorrect email form of the user name.				
	1. System shall display alert text under text field that "You must enter a valid email address".				
	2. Go to normal flow 1.				
	A2: User do not input either e-mail or user password.				
	1. System shall display alert text under text field that "This is required field".				
	2. Go to normal flow 1.				
	A3: Either e-mail or user password are not match with the data in the database.				
	1. System shall display alert pop-up text that "e-mail or Password does not exist".				
	2. Go to normal flow 1.				
Exception Flow	-				
Assumption	User must understand English.				

Use Case ID	UC-14				
Use Case Name	Logout				
Created By	Apiwat Hantrakool	Last Update By	Apiwat Hantrakool		
Date Created	28/2/2018	Last Revision Date	28/2/2018		
Actors	Administer, Teacher, Student				
Description	User can logout their account.				
Trigger	User click "Logout" button.				
Preconditions	User must already log in.				
	Use Case	Input Specification			
Input	type	Constraint	Example		
=	-	-	-		
Post conditions	User can sign out to the system.				
Normal Flows	User	System			
		1. System shall log out for user.			
		2. System shall go to "Login" page.			
Alternative Flow	-				
Exception Flow	-				
Assumption	User must understand English.				