**Document**

**Of**

**SE323 Term project 1 Presentation  
Due date: - 3 - 2018**

**By**

**Chawit Sommana 582115014  
Thanarit Lopetcharat 582115026  
Pattaratorn Sawaisorn 582115039  
Supakorn Kantatewee 582115043**

**Semester 2 / 2017  
College of Art Media and Technologies**

**Contents**

**Topic Page**

Use case diagram 2

Feature of the system 3

User Requirement Specification 3

User Requirement specification with

Software Requirement Specification 4

Use case description 7

UCD-01 7

UCD-02 9

UCD-03 10

UCD-04 11

UCD-05 12

UCD-06 13

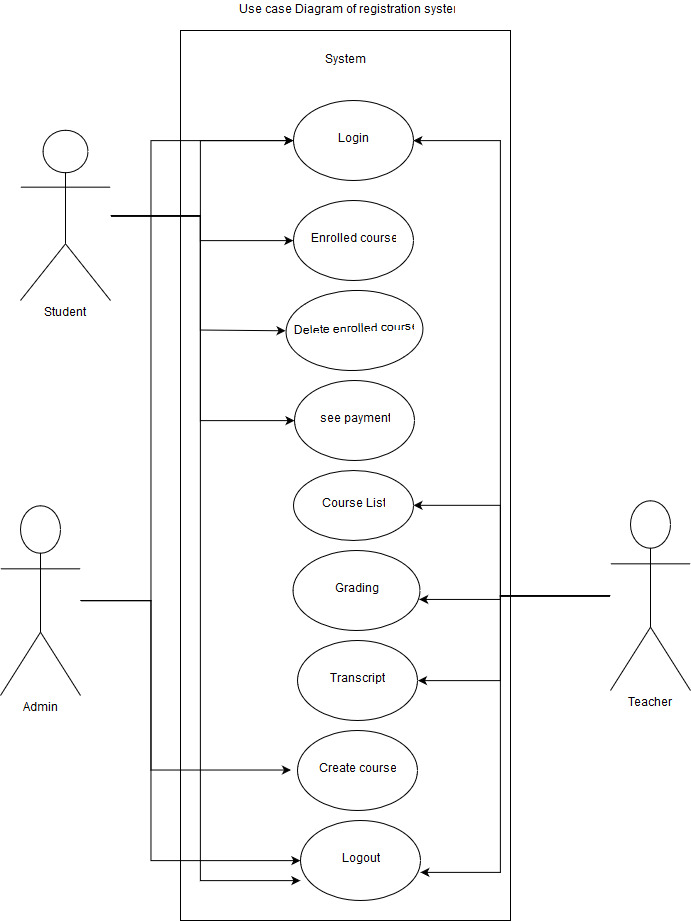
UCD-07 14

UCD-08 15

UCD-09 16

UCD-10 17

UCD-11 18

**Use case Diagram**

**Features of the System**

**User Requirement Specification**

**Actor**  
Student: student on this system.  
Teacher: Teacher on this system.  
Admin: Administrator of system.

**Feature # 1 Login page**  
Description: System provide Homepage of Login page for user.  
URS 1: Teacher can Login on Teacher mode.  
URS 2: Student can Login on Teacher mode.  
URS 3: Admin can Login on Admin mode.

**Feature # 2 Grading system**Description: Teacher can give the grading to another student.  
URS 4: Teacher can choose courses list in responsible of teacher.  
URS 5: Teacher can be grading to another student.

**Feature # 3 Teaching course list.**  
Description: Teacher can see Teaching detail of teaching courses.  
URS 6: Teacher can see teaching courses list on main page.

**Feature # 5 Transcript**   
Description: Teacher can see result of grade sort by course name of teaching.  
URS 7: Teacher can see a list of students in another course of teaching.  
URS: Teacher can see the grade of another student.

**Feature 6 # Logout**  
Description: Teacher and Student can Logout from system.  
URS 9: Teacher can Logout to system.  
URS 10: Student can Logout to system.

**Feature 7 # List of Enrolled course of student**  
Description: Student can see list of enrolled courses.  
URS 11: Student can see List of enrolled courses on main page.

**Feature 8 # Delete enrolled course**  
Description: Student deleted course from enrolled list.  
URS 12: Student can delete enrolled course from list.

**Feature 9 # Add course**  
Description: Student can add course for enrolled.  
URS 13: Student can add course from Add course menu.

**Feature 10 # Payment**   
Description: Student can see Total of tuition fee and detail of courses.  
URS14: Student can see total of tuition fee.  
URS15: Student can see detail of tuition fee of another course.

**Feature 11 # Admin can Create course to system.**  
Description: Admin can create course into the system.  
URS16: Admin can create course on menu Create course.

**Feature 12 # Existed Course.**  
Description: Admin can see existed course.  
URS 17: Admin can see detail of existed course on main page of Admin.

**User Requirement Specification with Software Requirement Specification   
Feature # 1 Login page**  
**Description: System provide Homepage of Login page for User**URS 1: Teacher can Login on Teacher mode

SRS-01: System provide “Teacher Login button”  
SRS-02: System show field Username and Password.  
SRS-03: System provide “Login” button.

URS 2: Student can Login on Teacher mode

SRS-04: System provide “Teacher Login button”  
SRS-05: System show field Username and Password on Teacher mode.  
SRS-06: System provide “Login” button on Teacher mode.

URS 3: Admin can Login on Admin Mode

SRS-07: System show field Username and Password on Admin mode.  
SRS-08: System provide “Login” button on Admin mode.

**Feature # 2 Grading system  
Description: Teacher can give the grading to another student**  
URS 4: Teacher can choose courses list in responsible of teacher.

SRS-09: System provide “Grading” on menu tab.  
SRS-10: System show teaching course.

URS 5: Teacher can be grading to another student

SRS-11: System provide student list on in this course.  
SRS-12: System have a menu for grading to another system.   
SRS-13: System must have criteria of grade A, B+, B, C+, C+, D+, D, F, W, I.

**Feature # 3 Teaching course list.**  
**Description: Teacher can see Teaching detail of teaching courses.**URS 6: Teacher can see teaching courses list on main page.

SRS-14: System provide teaching course list on main page of Teacher.  
 SRS-15: Another Course of teaching can link to grading system.

**Feature # 5 Transcript**   
**Description: Teacher can see result of grade sort by course name of teaching**  
 SRS-16: System provide “Transcript” on menu bar.  
URS 7: Teacher can see a list of students in another course of teaching.

SRS-17: System show data about teaching course and summary details of another   
 courses.  
 SRR-18: System show List of students.  
URS 8: Teacher can see the grade of other students.

SRS-19: System show data about teaching course and summary details of another   
 courses.  
 SRR-20: System show List of students.  
 SRS-21: System show result of grade base on another student.

**Feature 6 # Logout**  
**Description: Teacher and Student can Logout from system**  
URS 9: Teacher can Logout to system.

SRS-22: System provide logout button on Teacher session.  
URS 10: Student can Logout to system.

SRS-23: System provide logout button on Student session.

**Feature 7 # List of Enrolled course of student**  
**Description: Student can see list of enrolled courses**  
URS 11: Student can see List of enrolled courses on main page.

SRS-24: System provide List of enrolled courses on main page.

**Feature 8 # Delete enrolled course**  
**Description: Student deleted course from enrolled list**URS 12: Student can delete enrolled course from list.

SRS-25: System provide List of enrolled courses on main page.  
 SRS-26: System have a “delete” button on another course.

**Feature 9 # Add course**  
**Description: Student can add course for enrolled**   
URS 13: Student can add course from Add course menu.

SRS-27: System provide “Add course” on menu bar.  
 SRS-28: System show data of available course for enroll.  
 SRS-29: System have a “add” button on another course.

**Feature 10 # Payment**   
**Description: Student can see Total of tuition fee and detail of course**   
URS14: Student can see total of tuition fee.

SRS-30: System provide “payment” on menu bar.  
SRS-31: System show Total of Tuition fee in Baht.

URS15: Student can see detail of tuition fee of another course.

SRS-32: System provide “payment” on menu bar.  
 SRS-33: System show list of enrolled courses and have detail of credit and cost.

**Feature 11 # Admin can Create course to system.**  
**Description: Admin can create course into the system.**  
URS16: Admin can create course on menu Create course

SRS-34:System provide “Create course” button on menu bar   
 SRS-35:System provide text box “CourseID”.  
 SRS-36:System provide text box “CourseName”.  
 SRS-37:System provide text box “TeacherName”.  
 SRS-38:System provide text box “Semester”.  
 SRS-39:System provide text box “Academic Year”.  
 SRS-40:System provide text box “Maximum Seat”.  
 SRS-41:System provide text box “Number of Credit”.

**Feature 12 # Existed Course**  
**Description: Admin can see existed course**  
URS 17: Admin can see detail of existed course on main page of Admin.  
 SRS-42: System provide data of Existed Course detail.

**Use Case Description**

**Feature # 1 Login page**  
Description: System provide Homepage of Login page for User.   
URS 1: Teacher can Login to the system as a teacher.  
URS 2: Student can Login to the system as a student.  
URS 3: Admin can Login to the system as a Admin

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Use Case ID | **UCD-01** | | | | |
| Use Case Name | User Login | | | | |
| Created By | Thanarit Lopetcharat | | Last Update By | Thanarit Lopetcharat | |
| Date Created | 27-2-2018 | | Last Revision Date | 25-3-2018 | |
| Actors | User | | | | |
| Description | User can login into the system based on character of user. | | | | |
| Trigger | Users clicks Login | | | | |
| Preconditions | -User have an Internet connection.  -User available on login page for student, teacher and Admin.  -User have Username and Password. | | | | |
| Use Case Input Specification | | | | | |
| Input | type | Constraint | | | Example |
| E-mail | String | Set of the string together within English alphabet and Arabic numerical including some special symbol. | | | “willia@cmu.ac.th” |
| Password | String | Set of the string together within English alphabet and Arabic numerical including some special symbol. | | | “123abc” |
| Post conditions | User can access to Registration system. | | | | |
| Normal Flows | User | | System | | |
|  | **NF-01:** User clicks Login button  **NF-03:** User input Email and Password  **NF-04:** User click Login | | **NF-02:** System provide Login Page.  **NF-05:** System check input from user  **NF-06:** System provide Profile page. | | |
| Alternative Flow | **NF-05**, if system not found Username or password. System cannot provide profile page to user. | | | | |
| Exception Flow | User loss of internet connection. | | | | |
| Assumption | 1. User understands English. | | | | |

**Feature # 2 Grading system**Description: Teacher can give the grading to another student.  
URS 4: Teacher can choose course list in responsible of teacher.  
URS 5: Teacher can be grading to another student.

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID | **UCD-02** | | |
| Use Case Name | Grading System | | |
| Created By | Thanarit Lopetcharat | Last Update By | Thanarit Lopetcharat |
| Date Created | 27-2-2018 | Last Revision Date | 25-3-2018 |
| Actors | Teacher | | |
| Description | Teacher can give the grading to another student | | |
| Trigger | Teacher click grading menu | | |
| Preconditions | -Teacher have an Internet connection  - User already login to the system as a teacher section. | | |
| Post conditions | User can add Course from course list for enrolled. | | |
| Normal Flows | User | System | |
|  | **NF-01:** Teacher clicks grading on menu bar.  **NF-03:** Teacher clicks Course Name which want to be grading.  **NF-05:** Teacher grading to student. | **NF-02:** System provide teaching course list. **NF-04**: System provide the list of students and function to be grading | |
| Alternative Flow | **-** | | |
| Exception Flow | User loss of internet connection. | | |
| Assumption | 1. User understands English. | | |

**Feature # 3 Teaching course list.**  
Description: Teacher can see Teaching detail of teaching courses.  
URS 6: Teacher can see teaching courses list on main page.

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID | **UCD-03** | | |
| Use Case Name | Teacher see the course list. | | |
| Created By | Thanarit Lopetcharat | Last Update By | Thanarit Lopetcharat |
| Date Created | 27-7-2018 | Last Revision Date | 27-7-2018 |
| Actors | Teacher | | |
| Description | Teacher can see a Teaching detail of teaching courses. | | |
| Trigger | Users clicks must open main page of teacher section. | | |
| Preconditions | - User have an Internet connection.  - Teacher already login to the system as a teacher section. | | |
| Post conditions | Teacher can see teaching course. | | |
| Normal Flows | User | System | |
|  | **NF-01:** teacher clicks button “Main” on menu bar. | **NF-02:** System provide course list of teaching and detail of any courses. | |
| Alternative Flow | **-** | | |
| Exception Flow | User loss of internet connection. | | |
| Assumption | 1. User understands English. | | |

**Feature # 4 Transcript**   
Description: Teacher can see result of grade sort by course name of teaching.  
URS 7: Teacher can see a list of students in another course of teaching.  
URS 8: Teacher can see the grade of other students.

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID | **UCD-04** | | |
| Use Case Name | Transcript | | |
| Created By | Thanarit Lopetcharat | Last Update By | Thanarit Lopetcharat |
| Date Created | 27-2-2018 | Last Revision Date | 25-3-2018 |
| Actors | Teacher | | |
| Description | Teacher can see the result of grade sort by course name of teaching. | | |
| Trigger | Users clicks Transcript | | |
| Preconditions | -User have an Internet connection.  - User already login to the system as a teacher section. | | |
| Post conditions | User can see grade of student depend on another course. | | |
| Normal Flows | User | System | |
|  | **NF-01:** User clicks Transcript on menu bar.  **NF-03:** User clicks Course name on a list. | **NF-02:** System provide a list of courses.  **NF-04:** System show a list of students and their grad. | |
| Alternative Flow | **-** | | |
| Exception Flow | User loss of internet connection. | | |
| Assumption | 1. User understands English. | | |

**Feature 5 # Logout**  
Description: Teacher and Student can Logout from system.  
URS 9: Teacher can Logout to system.  
URS 10: Student can Logout to system.  
URS 11: Admin can Logout to system.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Use Case ID | **UCD-05** | | | | |
| Use Case Name | User Logout | | | | |
| Created By | Thanarit Lopetcharat | | Last Update By | Thanarit Lopetcharat | |
| Date Created | 27-2-2018 | | Last Revision Date | 25-3-2018 | |
| Actors | User | | | | |
| Description | User can logout into the system based on character of user | | | | |
| Trigger | Users using this system. | | | | |
| Preconditions | - User have an Internet connection.  - User already login to the system as a teacher section. | | | | |
| Use Case Input Specification | | | | | |
| Input | type | Constraint | | | Example |
| - | - | - | | | - |
| - | - | - | | | - |
| Post conditions | User can logout to Registration system. | | | | |
| Normal Flows | User | | System | | |
|  | **NF-01:** User clicks Logout | | **NF-02:** System Logout from system. | | |
| Alternative Flow | **-** | | | | |
| Exception Flow | User loss of internet connection. | | | | |
| Assumption | 1. User understands English. | | | | |

**Feature 6 # List of Enrolled course of student**  
Description: Student can see list of enrolled courses.  
URS 12: Student can see List of enrolled courses on main page.

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID | **UCD-06** | | |
| Use Case Name | List of enrolled courses of student. | | |
| Created By | Thanarit Lopetcharat | Last Update By | Thanarit Lopetcharat |
| Date Created | 27-2-2018 | Last Revision Date | 25-3-2018 |
| Actors | Student | | |
| Description | Student can see list of enrolled courses. | | |
| Trigger | Student can Login into this system. | | |
| Preconditions | - User have an Internet connection.  - User already login to the system as a student section. | | |
| Post conditions | Student can see Enrolled course. | | |
| Normal Flows | User | System | |
|  | **NF-01:** student click button “Main” on menu bar. | **NF-02:** system show enrolled course. | |
| Alternative Flow | **-** | | |
| Exception Flow | User loss of internet connection. | | |
| Assumption | 1. User understands English. | | |

**Feature 7 # Delete enrolled course**  
Description: Student deleted course from enrolled list.  
URS 13: Student can delete enrolled course from list.

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID | **UCD-07** | | |
| Use Case Name | Deleted enrolled course | | |
| Created By | Thanarit Lopetcharat | Last Update By | Thanarit Lopetcharat |
| Date Created | 27-2-2018 | Last Revision Date | 25-3-2018 |
| Actors | Student | | |
| Description | Student deleted course from enrolled list. | | |
| Trigger | Student can Login into this system. | | |
| Preconditions | - User have an Internet connection.  - User already login to the system as a student section. | | |
| Post conditions | Student can see delete enrolled course from list. | | |
| Normal Flows | User | System | |
|  | **NF-01:** student click button “Main” on menu bar. **NF-03:** Student click delete. | **NF-02:** system show enrolled course  **NF-04:** System delete course from enrolled list. | |
| Alternative Flow | **-** | | |
| Exception Flow | User loss of internet connection. | | |
| Assumption | 1. User understands English. | | |

**Feature 8 # Add course**  
Description: Student can add course for enrolled.  
URS 14: Student can add course from Add course menu.

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID | **UCD-08** | | |
| Use Case Name | Add course | | |
| Created By | Thanarit Lopetcharat | Last Update By | Thanarit Lopetcharat |
| Date Created | 27-2-2018 | Last Revision Date | 25-3-2018 |
| Actors | Student | | |
| Description | Student can add course for enrolled. | | |
| Trigger | Student can Login into this system. | | |
| Preconditions | - User have an Internet connection.  - User already login to the system as a student section. | | |
| Post conditions | Student can see add course. | | |
| Normal Flows | User | System | |
|  | **NF-01:** student click button “Add course” on menu bar.  **NF-03:** Student click Add. | **NF-02:** system show available course details for enrolling. **NF-04:** System provide enrolling the course to student and save into system. | |
| Alternative Flow | **-** | | |
| Exception Flow | User loss of internet connection. | | |
| Assumption | 1. User understands English. | | |

**Feature 9 # Payment**   
Description: Student can see Total of tuition fee and detail of course   
URS15: Student can see total of tuition fee  
URS16: Student can see detail of tuition fee of another course

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID | **UCD-09** | | |
| Use Case Name | Payment | | |
| Created By | Thanarit Lopetcharat | Last Update By | Thanarit Lopetcharat |
| Date Created | 27-2-2018 | Last Revision Date | 25-3-2018 |
| Actors | Student | | |
| Description | Student can see Total of tuition fee and detail of course. | | |
| Trigger | Student can Login into this system. | | |
| Preconditions | - User have an Internet connection.  - User already login to the system as a student section. | | |
| Post conditions | Student can see payment details. | | |
| Normal Flows | User | System | |
|  | **NF-01:** student click button “Payment” on menu bar. | **NF-02:** system show detail of Total payment and total of tuition fee in Baht. | |
| Alternative Flow | **-** | | |
| Exception Flow | User loss of internet connection. | | |
| Assumption | 1. User understands English. | | |

**Feature 10 # Admin can Create course to system.**  
Description: Admin can create course into the system.  
URS17: Admin can create course on menu Create course.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Use Case ID | **UCD-10** | | | | |
| Use Case Name | Create course to system | | | | |
| Created By | Thanarit Lopetcharat | | Last Update By | Thanarit Lopetcharat | |
| Date Created | 27-2-2018 | | Last Revision Date | 25-3-2018 | |
| Actors | Admin | | | | |
| Description | Admin can create course into the system. | | | | |
| Trigger | Admin can Login into this system. | | | | |
| Preconditions | - User have an Internet connection.  - User already login to the system as a admin section. | | | | |
| Use Case Input Specification | | | | | |
| Input | type | Constraint | | | Example |
| CourseID | Int | Set of integer numbers. | | | 953211 |
| CourseName | String | Set of the string together within English alphabet. | | | Software maintenance |
| TeacherName | String | Set of the string together within English alphabet and symbol. | | | Dr. Jessada |
| Semester | Int | Set of integer number. | | | 1 |
| AcademicYear | Date | Se of date. | | | 1996 |
| MaximumSeat | Int | Set of integer number. | | | 50 |
| NumberOfcredit | Int | Set of integer number. | | | 3 |
| Post conditions | User can logout to Registration system. | | | | |
| Normal Flows | User | | System | | |
|  | **NF-01:** Admin clicks button “Create Course”.  **NF-03:** Admin input the detail of a course.  **NF-04:** Click Create course | | **NF-02:** System provide formation for create a course.  **NF-05:** System will create course and save into the system. | | |
| Alternative Flow | **-** | | | | |
| Exception Flow | User loss of internet connection. | | | | |
| Assumption | 1. User understands English. | | | | |

**Feature 11 # Existed Course.**  
Description: Admin can see existed courses.  
URS 18: Admin can see the detail of existed course on the main page of Admin.

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID | **UCD-11** | | |
| Use Case Name | Existed Course | | |
| Created By | Thanarit Lopetcharat | Last Update By | Thanarit Lopetcharat |
| Date Created | 27-2-2018 | Last Revision Date | 25-3-2018 |
| Actors | Admin | | |
| Description | Admin can see existed course. | | |
| Trigger | Admin can Login into this system. | | |
| Preconditions | - User have an Internet connection.  - User already login to the system as a admin section. | | |
| Post conditions | Admin can see existed list of courses. | | |
| Normal Flows | User | System | |
|  | **NF-01:** Admin click button “Main” on menu bar. | **NF-02:** System provide list of the existed courses and detail. | |
| Alternative Flow | **-** | | |
| Exception Flow | User loss of internet connection. | | |
| Assumption | 1. User understands English. | | |

**Test Plan**