**WIL Report Management System**

Software Requirement Specification

­­­

By

**Ms. Phinthip Samutloiwon 552115050**

**Mr. Veerapat In-ongkarn 562115055**

Department of Software Engineering

College of Arts, Media and Technology

Chiang Mai University

Project Advisor

**Dr. Prompong Sugunnasil**

**Document History**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Document Name** | **Version** | **Status** | | **Date** | **Viewable** | **Reviewer** | **Responsible** |
| **Documents** | | | | | | | |
| WRMS- SRS\_V.0.1.docx | Created document  - Add Chapter I | Introduction   - Purpose  - Scope  - User Characteristic  - Operation Environment  -Design and Implementation  Constraints  - Dependency Document  - Acronyms  - Document format  - Definition  - Add Chapter II | Overall Description  - Project Perspective  - Project Functions  - Functional Requirement - Add Chapter III | Specific Requirement  - Use Case - Add Chapter IV | Software Requirement Specification | | Draft | 10-02-2017 | PS,VI | PS,VI | PS,VI |
| WRMS- SRS\_V.0.2.docx | - Edit Chapter I | Introduction   - Purpose  - Scope  - User Characteristic  - Operation Environment  -Design and Implementation  Constraints  - Dependency Document  - Acronyms  - Document format  - Definition  - Edit Chapter II | Overall Description  - Project Perspective  - Project Functions  - Functional Requirement - Edit Chapter III | Specific Requirement  - Use Case - Edit Chapter IV | Software Requirement Specification | | Draft | 17-02-2017 | PS,VI | PS,VI | PS,VI |
| WRMS- SRS\_V.0.3.docx | - Edit Chapter III | Specific Requirement  - Use Case - Edit Chapter IV | Software Requirement Specification  - Add UC | | Draft | 25-02-2017 | PS,VI | PS,VI | PS,VI |
| WRMS- SRS\_V.0.4.docx | - Edit Chapter III | Specific Requirement  - Use Case - Edit Chapter IV | Software Requirement Specification  - Edit UC | | Draft | 28-02-2017 | PS,VI | PS,VI | PS,VI |
| WRMS- SRS\_V.0.5.docx | - Edit Chapter III | Specific Requirement  - Use Case - Edit Chapter IV | Software Requirement Specification  - Edit UC | | Draft | 07-03-2017 | PS,VI | PS,VI | PS,VI |
| WRMS- SRS\_V.0.6.docx | - Edit Chapter III | Specific Requirement  - Use Case - Edit Chapter IV | Software Requirement Specification  - Edit UC | | Draft | 20-03-2017 | PS,VI | PS,VI | PS,VI |

**\*PS = Phinthip Samutloiwon  
\*VI = Veerapat In-ongkarn  
\*PSU= Prompong Sugunnasil**

**Table of Contents**

[Chapter I | Introduction 5](#_Toc476678721)

[1.1. Purpose 5](#_Toc476678722)

[1.2. Project Scope 5](#_Toc476678723)

[1.3. Acronyms and definitions Acronyms 5](#_Toc476678724)

[1.4. Definitions 5](#_Toc476678725)

[Chapter II | Overall Description 7](#_Toc476678726)

[2.1. Product perspective 7](#_Toc476678727)

[2.2. Product Functions 7](#_Toc476678728)

[2.3. User Characteristic 7](#_Toc476678729)

[2.4. Operation Environment 7](#_Toc476678730)

[2.5. Design and Implementation constants 7](#_Toc476678731)

[Chapter III | Software Requirement Specification 8](#_Toc476678732)

[3.1 User requirements 8](#_Toc476678733)

[3.2 System requirements 9](#_Toc476678734)

[3.3 User requirement specification with system requirement specification 13](#_Toc476678735)

[Chapter IV | Requirement Specification 22](#_Toc476678736)

[4.1 Use case diagram 22](#_Toc476678737)

[4.2 Use case description 22](#_Toc476678738)

[UC-01 22](#_Toc476678739)

[UC-02 24](#_Toc476678740)

[UC-03 26](#_Toc476678741)

[UC-04 27](#_Toc476678742)

[UC-05 28](#_Toc476678743)

[UC-06 29](#_Toc476678744)

[UC-07 30](#_Toc476678745)

[UC-08 31](#_Toc476678746)

[UC-09 32](#_Toc476678747)

[UC-10 33](#_Toc476678748)

[UC-11 34](#_Toc476678749)

[UC-12 35](#_Toc476678750)

[UC-13 36](#_Toc476678751)

[UC-14 37](#_Toc476678752)

[UC-15 38](#_Toc476678753)

[UC-16 39](#_Toc476678754)

[UC-17 40](#_Toc476678755)

[UC-18 41](#_Toc476678756)

[UC-19 42](#_Toc476678757)

[UC-20 42](#_Toc476678758)

[UC-21 43](#_Toc476678759)

[UC-22 44](#_Toc476678760)

**Table of Figures**

[Figure 1 Use case diagram 12](#_Toc480535016)

[Figure 2 AD-01 Register 14](#_Toc480535017)

[Figure 3 AD-03 Login 18](#_Toc480535018)

# **Chapter I | Introduction**

## **Purpose**

The purpose of this software requirement specification document (SRS) is to detail overview for WIL report management web application. The document describes how an application will interact with other system and human. It is also contain a detail description of functional and non-functional requirement. In other words, it describe what system can do, limitations, type of user, parameters, and other requirements which support the development. The software requirement specification provides developers and user to understand each other in structure details.

## **Project Scope**

WIL report management system (WRMS) is a web application for managing tasks of student, WIL weekly report, and comments of mentor and supervisor. All user shall receive a real-time notification via the web application and Email. This application was designed to use in College of Art, Media, and Technology. WRMS supports desktop and mobile device on chrome, Safari, and opera.

## **Acronyms and definitions Acronyms**

URS User Requirement Specification  
SRS Software Requirement Specification  
WRMS WIL Report Management System  
UC Use Case  
CD Class diagram  
AD Activity diagram  
SD Sequence diagram  
UI User interface  
UML Unified Modeling Language

## **Definitions**

|  |  |
| --- | --- |
| Use case | In UML, a complete task of a system that provides a measurable result of value for an actor. More formally, a use case defines a set of use case instances or scenarios [1] |
| Feature | Transformation of input parameters to output parameters based on a specified algorithm. It describes the functionality of a product in the language of the product. Used for requirements analysis, design, coding, testing or maintenance. [2] |
| Requirement | (1) A condition or capability needed by a user to solve a problem or achieve an objective. (2) A condition or capability that must be met or possessed by a system or system component to satisfy a contract, standard, specification, or other formally imposed document. (3) A documented representation of a condition or capability as in definition (1) or (2). [2] |
| Specification | Precise description of an activity or work product which serves as basis or input for further activities or work product. A specification can comprise requirements to a product and how they will be solved. Different parts of a specification (e.g., what is to be done, how it will be done) must not be mixed. [2] |
| UML | Unified Modeling Languages. Standardized notation for modeling design descriptions, architectures or scenarios. Not depending on a specific method. Issued and maintained by the object Management Group (OMG). [2] |
| System | A conceptual entity defined by its boundaries. Examples include companies, divisions, sets of software applications, components, machines, and devices. [1] |

# **Chapter II | Overall Description**

## **Product perspective**

WIL report management system (WRMS) consist of 5 parts which are User Management system, Tasks management system, Comments management system, Report export system, Notification system. When student generate report, the system shall change all list tasks into sentences and ordered by weekly or monthly. Mentor and Supervisor are able to see the student’ progress and also leave some comments. After leaving a comment, the system will send a real-time notification to all involved user.

## **Product Functions**

WRMS is a web application and mobile application which helps student to create WIL reports from lists of tasks to sentences. It also helps mentor and supervisor to see the progress of student. Furthermore, Mentor and supervisor are able to leave their comments on tasks of student.

## **User Characteristic**

WIL report management web application includes 5 types of user characteristics:

1. Student – the user who is able to login, edit their own profile, logout, view and manage tasks, view task statistics, export reports, and receive notifications.
2. Mentor – the user who is able to login, edit their own profile, logout manage comments, view reports, and receive notifications.
3. Supervisor – the user who is able to login, edit their own profile, logout manage comments, view reports, and receive notifications.
4. User – Student, Mentor, and Supervisor
5. Visitor – the user who is able to register to the system.

## **Operation Environment**

WIL report management system is a web application which requires internet connection. The user have to access to the website though internet browser including Internet Explorer 10 (or above), Safari version 9, and opera. The system support windows 8.1 and 10, Mac OS sierra, android 6.0, and iOS 10.

## **Design and Implementation constants**

2.5.1 The application requires internet connection.  
2.5.2 The prototype is available in English.  
2.5.3 Mentor and Supervisor are not able to manage tasks of student.   
2.5.4 Overload data could affect to the performance of web application.

# **Chapter III | Software Requirement Specification**

## **User requirements**

**Feature #1: User management**

1. Visitor can register into the system.
2. User can edit their own profile.
3. User can login into the system.
4. User can logout from the system.
5. Student can add registration code of supervisor and mentor.

**Feature #2: Project management**

1. ~~Student~~ User can view tasks of a project.
2. ~~Student~~ User can view the statistics of tasks.
3. Student can add a project.
4. Student can edit a project.
5. Student can delete a project.
6. Student can add a task of a project.
7. Student can edit a task of a project.
8. Student can delete a task of a project.
9. Student can move a task of a project.

**Feature #3: Progress tracking**

1. ~~Student~~ User can view comments ~~from Mentor and Supervisor~~.
2. ~~Student~~ User can add a comment.
3. ~~Student~~ User can delete their own comment.
4. Mentor and Supervisor can view a task ~~overview~~ of the student’s project.
5. Mentor and Supervisor can view the statistics of each student’s tasks.
6. ~~Mentor can view a comment in student’s report.~~
7. ~~Mentor can add a comment in student’s report~~.
8. ~~Mentor can edit a comment in student’s report.~~
9. ~~Mentor can delete a comment in student’s report.~~
10. ~~Supervisor can view a comment in student’s report.~~
11. ~~Supervisor can add a comment in student’s report.~~
12. ~~Supervisor can edit a comment in student’s report.~~
13. ~~Supervisor can delete a comment in student’s report.~~
14. User can view activities of projects.

**Feature #4: Report export**

1. User can generate a weekly report.

**Feature #5: Web and Email notification**

1. Student can receive a comment notification message on Web application.
2. Mentor and supervisor can receive an activity notification message on Web application.
3. Student can receive a comment notification message by Email.
4. Mentor and supervisor can receive an activity notification message by Email.

## **System requirements**

## **User requirement specification with system requirement specification**

# **Chapter IV | Requirement Specification**

## **Use case diagram**

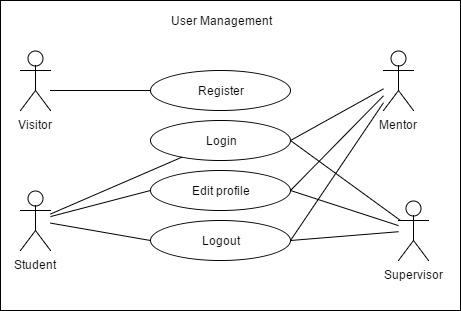


Figure 1 Use case diagram of User management

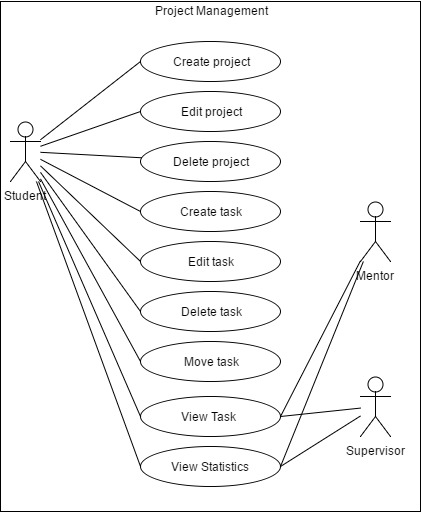


Figure 2 Use case diagram of Project management

## **Use case description**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-01 | | |
| **Use Case Name:** | Visitor can register to the system. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 26/02/2017 | **Last Revision Date:** | 20/04/2017 |
| **Actors:** | Visitor | | |
| **Description:** | Visitor can register to the WIL report management system. | | |
| **Trigger:** | Visitor enter to WIL report management web application. | | |
| **Preconditions:** | - | | |
| **Post conditions:** | Visitor can create a user account. | | |
| **Normal Flow:** | 1. System provides UI for registration. 2. User inputs first name, last name, description, company, position, email, password, profile image, signature image, start date, and role of user. | | |
| **Alternative Flows:** | a.) If visitor select “student” role:   1. System provides UI for the visitor to receive first name, last name, description, company, position, email, password, profile image, signature image, start internship date, and role of user. 2. A visitor inputs first name, last name, description, company, position, email, password profile image, signature image, start date, and student role. 3. A visitor clicks “Create” button. 4. System validates first name, last name, description, company, position, email, password, start date, and student role. 5. System saves data into the database. 6. System redirect to dashboard.   b.) If a visitor selects “Mentor” or “Supervisor” role:   1. System provides UI for the visitor to receive first name, last name, description, company, position, email, password, profile image, signature image, and role of user. 2. A visitor inputs first name, last name, description, company, position, email, password, profile image, signature image, and role. 3. A visitor clicks “Create” button. 4. System validates first name, last name, description, company, position, email, password, and role. 5. System saves input data into the database. 6. System redirect to dashboard. | | |
| **Exceptions:** | From a.4) and b.4) If visitor input incorrect format of email, password or empty forms.   1. System shall provide an error message if the input field(s) are blank. 2. System shall provide an error message if an input email is not matched with constraint.   From a.3) and b.3) If visitor click cancel button:   1. System redirect to Login page. | | |

**Activity diagram of UC-01**

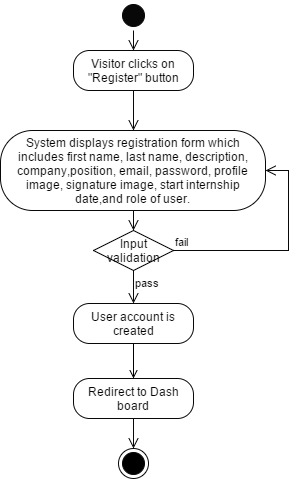


Figure 3 AD-01 Register

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-02 | | |
| **Use Case Name:** | User can edit their own profile. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 26/02/2017 | **Last Revision Date:** | 20/04/2017 |
| **Actors:** | Student, Mentor, Supervisor | | |
| **Description:** | User can edit their own profile. | | |
| **Trigger:** | User click on edit profile button. | | |
| **Preconditions:** | UC-01, UC-03 System connects to database. | | |
| **Post conditions:** | Profile of user are updated into the database. | | |
| **Normal Flow:** | 1. System checks user id. 2. System provides UI to edit the profile. | | |
| **Alternative Flows:** | From 2)  a.) If a user is student:   1. System provides UI to receive first name, last name, description, company, position, email, password, profile image, signature image, and start date. 2. Student inputs first name, last name, description, company, position, email, password, profile image, signature image, and start date. 3. Student clicks “update” button. 4. System validates first name, last name, description, company, position, email, password, and start date. 5. System saves data into the database. 6. System redirects to profile page.   b.) If a user is “Mentor” or “Supervisor” role:   1. System provides UI to receive first name, last name, description, company, position, email, password, profile image, and signature image. 2. Student inputs first name, last name, description, company, position, email, password, profile image, and signature image. 3. Student clicks “update” button. 4. System validates first name, last name, description, company, position, email, and password. 5. System saves data into the database. 6. System redirects to profile page. | | |
| **Exceptions:** | From a.4) If student input incorrect format of email:   1. System provides UI to display an error message if the student edit their own information which the “email” is not matched with constraint.   From b.4) If Mentor or supervisor inputs incorrect format of email:   1. System provides UI to display an error message if the mentor or supervisor edit their own information which the “name” is not matched with constraint.   From a.4) and b.4) If user inputs empty forms:   1. System provides UI to display an error message if input fields are empty.   From a.3) and b.3) If a visitor clicks cancel button:   1. System redirects to profile page. | | |

**Activity diagram of UC-02**

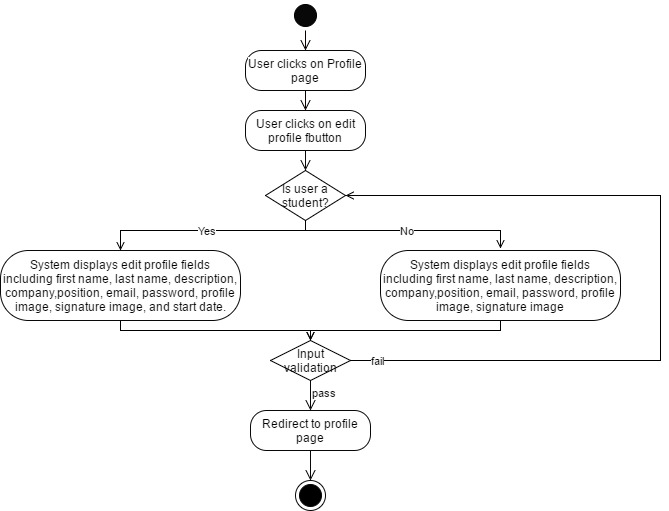


Figure 4 AC-02 Edit profile

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-03 | | |
| **Use Case Name:** | User can login into the system. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 26/02/2017 | **Last Revision Date:** | 20/03/2017 |
| **Actors:** | Student, Mentor, Supervisor | | |
| **Description:** | User can login into the WIL report management system. | | |
| **Trigger:** | User accesses to WIL report management web application.  User click on login button. | | |
| **Preconditions:** | User has a user account. | | |
| **Post conditions:** | User are redirected to their role dash board.  The session of a user account is started. | | |
| **Normal Flow:** | 1. System shall provide UI to login 2. User inputs email and password. 3. System shall receive email and password. 4. User click “Login” button. 5. System shall verify email and password. 6. System shall redirect to a dashboard of user. | | |
| **Alternative Flows:** | From 6.)  a.) If a user is student:   1. System shall navigates the student to access the student dashboard.   b.) If a user is Mentor:   1. System shall navigates the mentor to access the mentor dashboard.   c.) If a user is supervisor:   1. System shall navigate the supervisor to access the supervisor dashboard | | |
| **Exceptions:** | From 5.) If email and password are invalid:   1. System shall display an error message if email or password is wrong. 2. System shall redirect to Login page. | | |

**Activity diagram of UC-03**

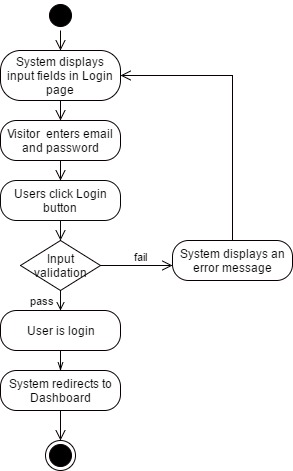


Figure 5 AD-03 Login

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-04 | | |
| **Use Case Name:** | User can logout from the system. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 26/02/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student, Mentor, Supervisor | | |
| **Description:** | User can logout from the WIL report management system. | | |
| **Trigger:** | User click on a logout button. | | |
| **Preconditions:** | UC-03 | | |
| **Post conditions:** | User’s account session is expired. | | |
| **Normal Flow:** | 1. System shall provide a button to logout. 2. User click logout button. 3. System shall logout from the system. 4. System shall redirect to login page. | | |
| **Alternative Flows:** | - | | |
| **Exceptions:** | - | | |

**Activity diagram of UC-04**

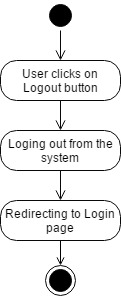


Figure 6 AD-04 Logout

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-05 | | |
| **Use Case Name:** | Student can add registration code. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 26/02/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student | | |
| **Description:** | Student can add mentor and supervisor code in profile page. | | |
| **Trigger:** | - | | |
| **Preconditions:** | UC-01, UC-02, UC-03 Student has to know their mentor and supervisor code.  Student accesses to profile page. | | |
| **Post conditions:** | Account of student connect to mentor and supervisor account. | | |
| **Normal Flow:** | 1. System provides a button to logout. 2. User inputs mentor or supervisor code. 3. User click “+” button. 4. System validates a code. 5. System displays a confirmation message. 6. User clicks “Confirm” 7. System links the mentor/supervisor account to the student account. 8. System redirects to profile page. 9. System updates a mentor or supervisor on student’s profile page. | | |
| **Alternative Flows:** | From 9.) If student would like to add more codes:   1. User click input a code in the same form.   From 6.) If student slick cancel button:   1. System go back to profile page. | | |
| **Exceptions:** | From 4) If the code is invalid:   1. System locks the button. | | |

**Activity diagram of UC-05**

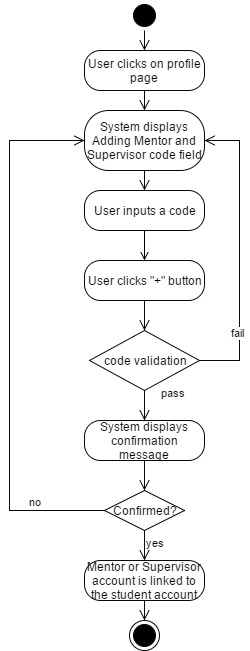


Figure 7 AD-05 Add Mentor or Supervisor code

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-06 | | |
| **Use Case Name:** | User can view tasks of a project. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 27/02/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student, Mentor, Supervisor | | |
| **Description:** | Student, Mentor, Supervisor can view tasks of each project. | | |
| **Trigger:** | Student clicks on a project name. | | |
| **Preconditions:** | UC-01, UC-02, UC-03, UC-05 System connects to database.  User are in dashboard. | | |
| **Post conditions:** | - | | |
| **Normal Flow:** | 1. System provide UI to display a dashboard. | | |
| **Alternative Flows:** | From 1.) If a user is student:   1. System provide UI to display a dashboard with list pf project and statistics. 2. User click to a project list. 3. System links to project detail page. 4. System displays list and card of tasks.   System display list and card of tasks.  From 1.) If a user is mentor or supervisor:   1. System provides list of student in dashboard. 2. Mentor or supervisor clicks on a student list. 3. System links to dashboard of selected student. 4. User click to a project list. 5. System links to project detail page. 6. System displays list and card of tasks. | | |
| **Exceptions:** | - | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-07 | | |
| **Use Case Name:** | User can view the statistics of tasks. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 26/02/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student, Mentor, Supervisor | | |
| **Description:** | Student can view statistic of tasks. Mentor and Supervisor can view statistics of tasks in specific student (who are under their guidance). | | |
| **Trigger:** | User click to see dashboard. | | |
| **Preconditions:** | UC-01, UC-02, UC-03, UC-05 System connects to database. | | |
| **Post conditions:** | - | | |
| **Normal Flow:** | 1. System provide UI to display a dashboard. | | |
| **Alternative Flows:** | From 1.) If a user is student:   1. System provide UI to display a dashboard. 2. System display statistics box of tasks on the top of dashboard.   From 1.) If a user is mentor or supervisor:   1. System provide list of student in dashboard. 2. Mentor or supervisor click on a student list. 3. System links to dashboard of selected student. 4. System display statistics box of tasks on the top of dashboard. | | |
| **Exceptions:** | - | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-08 | | |
| **Use Case Name:** | Student can add a project. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 28/02/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student | | |
| **Description:** | Student can create a new project. | | |
| **Trigger:** | Student click on “create new project” button. | | |
| **Preconditions:** | UC-03 Student is in a dashboard. | | |
| **Post conditions:** | System save data into the database.  System redirect project detail page. | | |
| **Normal Flow:** | 1. System provide “create new project” button in a student’s dashboard. 2. Student click on “add new project” button. 3. System shall provide UI which receive project name, project description, and due date. 4. System provide “submit” and “cancel” button. 5. User click on submit button. 6. System valid input data constraint. 7. System display a successful message. | | |
| **Alternative Flows:** | From 4.) If s student clicks on “cancel” button:   1. System redirect to previous page. | | |
| **Exceptions:** | From 6.) If the input data is invalid:   1. System display an error message “Invalid input data. Please recheck it again ” 2. User click “Ok” button. 3. System redirect to create a new project detail page with the previous input data. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-09 | | |
| **Use Case Name:** | Student can delete a project. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 28/02/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student | | |
| **Description:** | Student can delete a project. | | |
| **Trigger:** | Student click on “delete” button. | | |
| **Preconditions:** | UC-03  System connect to database.  Student has at least 1 project in their project list.  Student is in a dashboard. | | |
| **Post conditions:** | A project is removed from the database. | | |
| **Normal Flow:** | 1. System provide UI to display student’s dashboard. 2. Student click on projects list. 3. System display the project detail page. 4. System provide delete button for deleting a project. 5. Student click on delete a project button. 6. System display a confirmation message “Are you sure to delete this project?” with “yes” and “no” button 7. Student click “yes” button. | | |
| **Alternative Flows:** | - | | |
| **Exceptions:** | From 6.) If student click “no” button:   1. System redirect to previous page. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-10 | | |
| **Use Case Name:** | Student can add tasks of a project. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 28/02/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student | | |
| **Description:** | Student can create a task of a project. | | |
| **Trigger:** | Student click on “create new task” button. | | |
| **Preconditions:** | UC-03 System connects to database.  Student is in a dashboard. | | |
| **Post conditions:** | A new task is added into a database. | | |
| **Normal Flow:** | 1. System displays student’s dashboard. 2. Student click on a list item in project list. 3. System displays the project detail page. 4. Student clicks on “add new task” button. 5. System shall provide UI which receive tasks name, task description, task due date, submit button, and cancel button. 6. Student click on submit button. 7. System validate input data with constraint. 8. System show a successful message “A new task is created.” | | |
| **Alternative Flows:** | From 5.) If student click on cancel button:   1. System redirect to previous page. | | |
| **Exceptions:** | From 7.) If input data is invalid:   1. System cancel to add a new data. 2. System display an error message “Invalid input data. Please recheck it again”. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-11 | | |
| **Use Case Name:** | Student can edit tasks of a project. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 28/02/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student | | |
| **Description:** | Student can edit tasks of each project. | | |
| **Trigger:** | Student click the edit task button. | | |
| **Preconditions:** | UC-03, UC-08, UC-10  System connects to database.  Student is in a project detail page. | | |
| **Post conditions:** | System redirect to project detail page. | | |
| **Normal Flow:** | 1. Student click “edit task” button. 2. System provide UI to receive tasks name, task description, task due date, submit button, and cancel button. 3. Student click on submit button. 4. System validate input data with constraint. 5. System show a successful message “Task was edited.” | | |
| **Alternative Flows:** | From 2.) If student click on cancel button:   1. System redirect to previous page. | | |
| **Exceptions:** | From 4.) If input data is invalid:   1. System cancel to add a new data.   System display an error message “Invalid input data. Please recheck it again”. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-12 | | |
| **Use Case Name:** | Student can delete tasks of a project. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 03/03/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student | | |
| **Description:** | Student can delete tasks of a project. | | |
| **Trigger:** | Student click “delete task” button. | | |
| **Preconditions:** | UC-03, UC-08, UC-10  System connects to database.  Student is in a project detail page.  There is a task list in selected project. | | |
| **Post conditions:** | System redirect to project detail page. | | |
| **Normal Flow:** | 1. Student select a task in the list of task. 2. Student click “delete task” button. 3. System provide UI to display a confirmation message “Do you want to delete this task?” with OK and Cancel button. 4. Student click “OK” button. 5. The task is deleted from the database. 6. System display a successful message “The task was deleted” | | |
| **Alternative Flows:** | From 4.) If student click “Cancel” button:   1. System redirect to project detail page. | | |
| **Exceptions:** | - | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-13 | | |
| **Use Case Name:** | Student can move tasks of a project. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 03/03/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student | | |
| **Description:** | Student can move tasks of a project. | | |
| **Trigger:** | Student drag a task card.  Student click “move task” button. | | |
| **Preconditions:** | UC-03, UC-08, UC-10  System connects to database.  Student is in a project detail page.  There is a task list in selected project. | | |
| **Post conditions:** | - | | |
| **Normal Flow:** | Flow 1.) Drag and drop   1. Student drag a task card and drop it to another column. 2. System arrange the task to the last order. 3. System shall save data to database.   Flow 2.) Click “move task” button   1. Student click on “move task” button. 2. System provide UI to display dropdown of column option, OK button, and cancel button. 3. Student select the destination column. 4. Student click OK button. 5. System move the selected task to the destination button and display a successful message. | | |
| **Alternative Flows:** | From 1-1.) If student drag a task card and drop it to the same column   1. The task is still in the current column.   From 2-4.) If student select cancel button   1. Student click Cancel button. 2. System cancel to move the task. 3. System redirect to list of tasks. | | |
| **Exceptions:** | From 1.) If student drag a task card and does not drop in any column.   1. System display forbidden sign as a mouse cursor. 2. The task goes to the current column. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-14 | | |
| **Use Case Name:** | User can view a comment. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 03/03/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student | | |
| **Description:** | Student, Mentor, Supervisor can view comments from Mentor and Supervisor. | | |
| **Trigger:** | User click to see a task detail. | | |
| **Preconditions:** | UC-03, UC-05, UC-08, UC-10  System connects to database.  Student is in a prokect detail page.  There is a comment in a system.  There is a task list in selected project. | | |
| **Post conditions:** | - | | |
| **Normal Flow:** | 1. User click to see a task detail. 2. System request comments data from database. 3. System provide UI to display (a) comment(s). 4. User can see the comment(s). | | |
| **Alternative Flows:** | If there is no comment, system will not provide UI for displaying comment. | | |
| **Exceptions:** | - | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-15 | | |
| **Use Case Name:** | User can add a comment. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 03/03/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student, Mentor, and Supervisor | | |
| **Description:** | Student, Mentor, and Supervisor can add a comment(s). | | |
| **Trigger:** | User click “add comment” button. | | |
| **Preconditions:** | UC-03, UC-05, UC-08, UC-10, UC-14  Student is in a task detail page.  There is a task in the system.  There is a comment in a system. | | |
| **Post conditions:** | System links back to a task detail page. | | |
| **Normal Flow:** | 1. System provide “Add comment” button. 2. User click “Add comment” button. 3. System provide input field, OK button, and close button. 4. User fill the text(s) in. 5. User click OK button. 6. System save the comment data into the database. 7. System display the message. | | |
| **Alternative Flows:** | From 5.) If a user select close button   1. The input field is closed. 2. System cancel to add a comment. 3. System redirect to the previous UI. | | |
| **Exceptions:** | - | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-16 | | |
| **Use Case Name:** | User can delete their own comment. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 03/03/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student, Mentor, and Supervisor | | |
| **Description:** | Student, Mentor, and Supervisor can delete their own comment. | | |
| **Trigger:** | User click on the cross button on the top right of the comment box. | | |
| **Preconditions:** | UC-03, UC-05  There is a comment in the system. | | |
| **Post conditions:** | - | | |
| **Normal Flow:** | 1. System provide UI to delete their own comment. 2. User click on the cross button on the top right of the comment box. 3. System display a confirmation message “Do you want to delete this comment?”. 4. User click OK button. 5. System request database to delete the comment. 6. System display successful message “Comment is deleted.” | | |
| **Alternative Flows:** | From 4.) If a user click on cancel button.   1. User click on Cancel button. 2. System cancel to delete a comment. 3. System redirect to the pervious UI. | | |
| **Exceptions:** | - | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-17 | | |
| **Use Case Name:** | User can edit a comment. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 04/03/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student, Mentor, Supervisor | | |
| **Description:** | User click “edit comment” button. | | |
| **Trigger:** | UC-03, UC-05, UC-08, UC-10, UC-14  Student is in a task detail page.  There is a task in the system.  There is a comment in a system. | | |
| **Preconditions:** | System links back to a task detail page. | | |
| **Post conditions:** | - | | |
| **Normal Flow:** | 1. System provide “Edit comment” button. 2. User click “Edit comment” button. 3. System provide input field with existing comment, OK button, and close button. 4. User fill the text(s) in. 5. User click OK button. 6. System send a request to save the comment data into the database. 7. System display the user’s comment. | | |
| **Alternative Flows:** | From 5.) If a user select close button   1. The input field is closed. 2. System cancel to edit a comment. 3. System redirect to the previous UI. | | |
| **Exceptions:** | - | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-18 | | |
| **Use Case Name:** | User can view weekly report. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 04/03/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student, Mentor, Supervisor | | |
| **Description:** | Student, Mentor, Supervisor can view a weekly report. | | |
| **Trigger:** | User click “Report” menu.  User click “view report” button. | | |
| **Preconditions:** | UC-03  There are tasks in a system. | | |
| **Post conditions:** | - | | |
| **Normal Flow:** | Flow 1.) User click “Report” menu.   1. User click “Report” on left navigation menu. 2. System arrange all tasks based on time-stamp. 3. System separates tasks in weekly. 4. System merges keywords in a task with a sentence template. 5. System provide UI to display overall weekly report.   Flow 2) User click “view report” button.  User click “view report” button on dashboard.   1. System arrange all tasks based on time-stamp. 2. System separates tasks in weekly. 3. System merges keywords in a task with a sentence template. 4. System provide UI to display overall weekly report. | | |
| **Alternative Flows:** | - | | |
| **Exceptions:** | - | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-19 | | |
| **Use Case Name:** | User can generate a pdf file of weekly report. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 04/03/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student, Mentor, Supervisor | | |
| **Description:** | Student, Mentor, Supervisor can a pdf file of weekly report. | | |
| **Trigger:** | User click on “Export report” button. | | |
| **Preconditions:** | UC-03, UC-18  There are tasks in a system. | | |
| **Post conditions:** | - | | |
| **Normal Flow:** | 1. User click “Export report” button. 2. System converts html weekly report to pdf report. 3. System provide UI to display a pdf file of weekly report. | | |
| **Alternative Flows:** | - | | |
| **Exceptions:** | - | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-20 | | |
| **Use Case Name:** | User can download a pdf file of weekly report. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 04/03/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student, Mentor, Supervisor | | |
| **Description:** | Student, Mentor, Supervisor can download a pdf file of weekly report. | | |
| **Trigger:** | User click on “download” button. | | |
| **Preconditions:** | UC-03, UC-18, UC-19  There are tasks in a system. | | |
| **Post conditions:** | - | | |
| **Normal Flow:** | 1. System provide UI to display a pdf file of weekly report with download and close button. 2. User click “download” button. 3. System request to download a file from database to a local computer. | | |
| **Alternative Flows:** | From 2.) If a user clicks “cancel” button.   1. System cancel to download a pdf file. 2. System redirect to weekly report UI. | | |
| **Exceptions:** | - | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-21 | | |
| **Use Case Name:** | User can receive notification via Web application. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 04/03/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student, Mentor, Supervisor | | |
| **Description:** | Student, Mentor, Supervisor can receive notification via Web application | | |
| **Trigger:** | An activity is occurred. (A new comment is created, A new project is created, A project is edited, A new task is created, A task is edited.) | | |
| **Preconditions:** | UC-03 | | |
| **Post conditions:** | - | | |
| **Normal Flow:** | If a user is a student:   1. System can detect comments of mentor and supervisor. 2. System arrange comments based on time-stamp. 3. System displays comment activities from the earliest to the latest comment in activities box (in dashboard).   If a user is a mentor or supervisor:   1. System shall detect task activities of student who under their guidance. 2. System shall arrange task activities based on time-stamp. 3. System shall display task activities from the earliest to the latest activity in activities box (in dashboard). | | |
| **Alternative Flows:** | - | | |
| **Exceptions:** | - | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC-22 | | |
| **Use Case Name:** | User can receive notification via Email. | | |
| **Created By:** | Phinthip | **Last Updated By:** | Phinthip |
| **Date Created:** | 04/03/2017 | **Last Revision Date:** | 07/03/2017 |
| **Actors:** | Student, Mentor, Supervisor | | |
| **Description:** | Student, Mentor, Supervisor can receive notification via Email. | | |
| **Trigger:** | An activity is occurred. (A new comment is created, A new project is created, A project is edited, A new task is created, A task is edited.) | | |
| **Preconditions:** | UC-03  System have emails of user. | | |
| **Post conditions:** | - | | |
| **Normal Flow:** | If a user is a student:   1. System can detect comments of mentor and supervisor. 2. System provide email template of comment notification. 3. System merge the content of comment to an email template. 4. System send a notification via email based on time-stamp of comment.   If a user is a mentor or supervisor:   1. System can detect task activities of student who under their guidance. 2. System provide email template of task activities notification. 3. System merge the content of task to an email template. 4. System send a notification via email based on time-stamp of task. | | |
| **Alternative Flows:** | - | | |
| **Exceptions:** | - | | |