**WIL Report Management System**

Software Requirement Specification

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By

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**Document History**

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# 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 users, parameters, and other requirements which support the development. The software requirement specification provides developers and users to understand each other in structure details.

## Project Scope

WIL report management system (WRMS) is a web application for managing tasks of students, WIL weekly report, and comments of mentors and supervisors. All users 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 students 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 students’ progress and also leave some comments. After leaving a comment, the system will send a real-time notification to all involved users.

## Product Functions

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

## User Characteristic

WIL report management web application includes 4 types of users:

1. Administrator – the user who can initial all functions in the application which are login, logout, register to the system, edit profile of users, edit password of users.
2. Students – the user who is able to login, edit their own profile, logout, view and manage tasks, view task statistics, export reports, and receive notifications.
3. Mentor – the user who is able to login, edit their own profile, logout manage comments, view reports, and receive notifications.
4. Supervisor – the user who is able to login, edit their own profile, logout manage comments, view reports, and receive notifications.
5. Users – Student, Mentor, and supervisor

## Operation Environment

WIL report management system is a web application which requires internet connection. The users 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 4.0, 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. Administrator shall create an account for a user.  
2.5.4. Mentor and Supervisor are not able to manage tasks of students.   
2.5.5. Overload data could affect to the performance of web application.

# Chapter III | Software Requirement Specification

## Overall Use Case diagram // picture

## User requirements

**Feature #1: Users management**

1. Guest can register to the system.
2. Admin can approve the user account.
3. Admin can delete the user account.
4. Users can edit their own profile.
5. Users can login into the system.
6. Users can logout from the system.

**Feature #2: Task management**

1. Students can view tasks overview of a project.
2. Students can view the statistics of tasks.
3. Students can add tasks of a project.
4. Students can edit tasks of a project.
5. Students can delete tasks of a project.
6. Students can move tasks of a project.

**Feature #3: Progress tracking**

1. Student can view comments from Mentor and Supervisor.
2. Mentors and Supervisor can view tasks overview of a project.
3. Mentors and Supervisor can view the statistics of tasks.
4. Mentor can view comments in student’s report.
5. Mentor can add comments in student’s report.
6. Mentor can edit comments in student’s report.
7. Mentor can delete comments in student’s report.
8. Supervisor can view comments in student’s report.
9. Supervisor can add comments in student’s report.
10. Supervisor can edit comments in student’s report.
11. Supervisor can delete comments in student’s report.

**Feature #4: Report export**

1. Users can view weekly report.
2. Users can view monthly report.
3. Users can generate a printable weekly report file.
4. Users can generate a printable monthly report file.

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

1. Users can receive activities notification message on Web application.
2. Users can receive activities receive notification message via email.

## System requirements

* 1. System shall provide an interface for the administrator to login.
  2. System shall provide an interface for the student to login.
  3. System shall provide an interface for the mentor to login.
  4. System shall provide an interface for the supervisor to login.
  5. System shall provide an interface to display the administrator login successful.
  6. System shall provide an interface to display the student login successful.
  7. System shall provide an interface to display the mentor login successful.
  8. System shall provide an interface to display the supervisor login successful.
  9. System shall provide an interface to display an error message that username or password are wrong.
  10. System shall receive username and password.
  11. System shall verify username and password.
  12. System shall navigates the administrator to access the system’s functions.
  13. System shall navigates the student to access the system’s functions.
  14. System shall navigates the mentor to access the system’s functions.
  15. System shall navigates the supervisor to access the system’s functions.

## Use Case description

# Chapter IV | Software Requirement Specification

## Login

## Edit their own information

## Change their individual password

## Logout

## View task overview

## View statistics of tasks

## Add a task

## Edit a task

## Delete a task

## Move a task

## View a comment

## Add a comment

## Edit a comment

## Delete a comment

## Create a user

## Edit information of a user

## Delete a user

## View a report

## Generate a report file

## Receive a notification

## Receive an Email notification