<Project Name>

Supplementary Specification

Version <1.0>

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Revision History

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Supplementary Specification

# Introduction

*[The introduction of the* ***Supplementary Specification*** *provides an overview of the entire document. It includes the purpose, scope, definitions, acronyms, abbreviations, references, and overview of this* ***Supplementary Specification****.*

*The* ***Supplementary Specification*** *captures the system requirements that are not readily captured in the use cases of the use-case model. Such requirements include:*

* *Legal and regulatory requirements, including application standards.*
* *Quality attributes of the system to be built, including usability, reliability, performance, and supportability requirements.*
* *Other requirements such as operating systems and environments, compatibility requirements, and design constraints.]*

## Purpose

*The purpose of this document is to define the requirements of the FIT Online Learning System of HANU. This Supplementary Specification lists the requirements that are not readily captured in the use cases of the use-case model. The Supplementary Specifications and the use-case model together capture a complete set of requirements on the system. This document is intended for software engineers, developers, users, and other stakeholders that have some relation to the system.*

## Scope

*This Supplementary Specification applies to the FIT online learning system which will be developed by the HANU (IT) department. The IT department will develop this client-server system to interface with the existing course catalog database.*

*The Online Learning System will enable students to register for courses online. The Online Learning System allows professors to select their teaching courses and to maintain student grades.*

*This specification defines the non-functional requirements of the system; such as reliability, usability, performance, and supportability as well as functional requirements that are common across a number of use cases. (The functional requirements are defined in the Use Case Specifications.)*

## Definitions, Acronyms, and Abbreviations

*[This subsection provides the definitions of all terms, acronyms, and abbreviations required to properly interpret the* ***Supplementary Specification****. This information may be provided by reference to the project’s Glossary.]*

## References

*[This subsection provides a complete list of all documents referenced elsewhere in the* ***Supplementary Specification****. Identify each document by title, report number if applicable, date, and publishing organization. Specify the sources from which the references can be obtained. This information may be provided by reference to an appendix or to another document.]*

## Overview

*[This subsection describes what the rest of the* ***Supplementary Specification*** *contains and explains how the document is organized.]*

# Functionality

*[This section describes the functional requirements of the system for those requirements which are expressed in the natural language style. For many applications, this may constitute the bulk of the SRS Package, and thought should be given to the organization of this section. This section is typically organized by feature, but alternative organization methods, for example, organization by user or organization by subsystem, may also be appropriate. Functional requirements may include feature sets, capabilities, and security.*

*Where application development tools, such as requirements tools, modeling tools, and so on, are employed to capture the functionality, this section document will refer to the availability of that data, indicating the location and name of the tool used to capture the data.]*

## <Remote Access>

*All the features can run available on all remote computers through an Internet connection.*

**2.2 <Validate Logging>**

*Validate and authorize users. If invalid user, give the error message include a text description of error*

# Usability

*[This section should include all of those requirements that affect usability. Examples follow:*

* *specify the required training time for a normal users and power users to become productive at particular operations*
* *specify measurable task times for typical tasks, or*
* *specify requirements to conform to common usability standards, for example, IBM’s CUA standards or Microsoft’s GUI standards]*

## <Compatible screen>

*The users can log in to all devices that the interface show content which is clear, beautiful, etc*

# Reliability

*[Requirements for reliability of the system should be specified here. Suggestions are as follows:*

* *Availability – specify percentage of time available ( xx.xx%), hours of use, maintenance access, degraded mode operations, and the like.*
* *Mean Time Between Failures (MTBF) – this is usually specified in hours but it could also be specified in terms of days, months or years.*
* *Mean Time To Repair (MTTR) – how long is the system allowed to be out of operation after it has failed?*
* *Accuracy – specify a precision (resolution) and accuracy (by some known standard) that is required in the output of the system.*
* *Maximum bugs or defect rate – usually expressed in terms of bugs/KLOC (thousands of lines of code), or bugs/function-point.*
* *Bugs or defect rate – categorized in terms of minor, significant, and critical bugs: the requirement(s) must define what is meant by a “critical” bug; for example, complete loss of data or complete inability to use certain parts of the functionality of the system.]*

* 1. **<Availability>**

*[FIT Portal Online Learning System can be available 24 hours a day, 7 days a week. There shall be no more than 4% downtime.]*

# Performance

*[The performance characteristics of the system should be outlined in this section. Include specific response times. Where applicable, reference related Use Cases by name.*

* *Response time for a transaction(average, maximum)*
* *Throughput (for example, transactions per second)*
* *Capacity (for example, the number of customers or transactions the system can accommodate)*
* *Degradation modes (what is the acceptable mode of operation when the system has been degraded in some manner)*
* *Resource use: memory, disk, communications, and so forth]*

## <Performance Requirement One>

*[The requirement description.]*

# Supportability

*[This section indicates any requirements that will enhance the supportability or maintainability of the system being built, including coding standards, naming conventions, class libraries, maintenance access, maintenance utilities.]*

## <Supportability Requirement One>

*[The requirement description.]*

# Design Constraints

*[This section needs to indicate any design constraints on the system being built. Design constraints represent design decisions that have been mandated - bắt buộc. Examples include software languages, software process requirements, prescribed use of developmental tools, architectural and design constraints, purchased components, class libraries, and so on.]*

## <Internet Browsers>

[The users can access by Google chrome or app available in App Store, Android, iOS]

*[The requirement description.]*

# Online User Documentation and Help System Requirements

*[Describes the requirements, if any, for on-line user documentation, help systems, help about notices, and so on.]*

# Purchased Components

*[The students used free course]*

# Interfaces

*[This section defines the interfaces that must be supported by the application. It should contain adequate specificity, protocols, ports and logical addresses, and so forth, so that the software can be developed and verified against the interface requirements.]*

## User Interfaces

*[Describe the user interfaces that are to be implemented by the software.]*

## Hardware Interfaces

*[This section defines any hardware interfaces that are to be supported by the software, including logical structure, physical addresses, expected behavior, and so on. – in general, this is used to describe our hardware interface which our software needs – for example: Storage device, I/O devices]*

## Software Interfaces

*[This section describes software interfaces to other components of the software system. These may be purchased components, components reused from another application or components being developed for subsystems outside of the scope of this SRS, but with which this software application must interact.]*

*[This may include the supported device types, the nature of the data and control interactions between the software and the hardware – if has]*

## Communications Interfaces

*[Describe any communications interfaces to* ***other systems or devices*** *such as local area networks, remote serial devices, and so on.]*

*[Describe the requirements associated with any communications functions required by this product, including e-mail, web browser, network server communications protocols, electronic forms, and so on. Define any pertinent message formatting. Identify any communication standards that will be used, such as FTP or HTTP]*

# Licensing Requirements

*[Defines any licensing enforcement requirements or other usage restriction requirements that are to be exhibited by the software.]*

# Legal, Copyright, and Other Notices

*[This section describes any necessary legal disclaimers, warranties, copyright notices, patent notice, wordmark, trademark, or logo compliance issues for the software.]*

# Applicable Standards

*[This section describes by reference any applicable standards and the specific sections of any such standards that apply to the system being described. For example, this could include legal, quality and regulatory standards, industry standards for usability, interoperability, internationalization, operating system compliance, and so forth.]*