

”Fontys Module Management System” Software Requirements Specification

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Fontys Hogeschool Techniek en Logistiek, September 11, 2017

Date	Version
11-09-2017	1.0

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List of Abbreviations

FMMS Fontys Module Management System.

OER Onderwijs Examen Regeling.

Chapter 1

Introduction

This document specifies all the requirements of the SOFA project during the seventh semester of the Software Engineering course at Fontys Hogeschool Techniek en Logistiek. The project is named Fontys Module Management System (FMMS).

1.1 Purpose

The purpose of this project is to streamline the process of changing module descriptions for the classes in the Software Engineering course, offering one centralized source of truth for the information contained in the module descriptions and the Onderwijs Examen Regeling (OER), and a controlled way of changing the descriptions if need be.

1.2 Scope

The scope of this document contains all the requirements of the system to be created.

1.3 Overview

This document is divided into three chapters. Chapter one will introduce the document and its purpose. The second chapter will give an overview of the functionality of the system and other interactions. The third chapter will specify all detailed requirements gathered which shall be implemented.

Chapter 2

Overall Description

This chapter will describe the general factors that will influence the product and its requirements.

2.1 Product Perspective

The product will be a software system that interacts with a database and a frontend to deliver and receive data.

Input some general diagram or description of the system's architecture

Describe interfaces

2.2 Product Functions

The general major functions of this system will be

- CRUD operations on module data
- Generating and releasing module descriptions and the OER
- Logging changes

2.3 Users

The users of the system will be

- Teachers
- Department Heads
- Curriculum Owner

2.4 External Interfaces

Any external software interfaces are listed here

Table 2.1: User Interaction Interface

Description	User interface
Purpose	Display data to the user and allow modification
Source of input	User interaction
Destination of output	Backend system

Table 2.2: Database Interface

Description	Database connection to a PostgreSQL database
Purpose	Store and retrieve data from and to the system
Source of input	Backend system
Destination of output	Backend system

Table 2.3: PDF Generator Interface

Description	PDF Generator
Purpose	Generate a PDF file
Source of input	Backend system
Destination of output	Backend system

Chapter 3

Requirements

This chapter will detail all non functional and functional requirements of the system.

3.1 Nonfunctional Requirements

Table 3.1: Non Functional Requirement: Simple workflow

Name	Simple workflow
Description	The workflow must be clear to all users.
Approach	The GUI must be simple to understand

Table 3.2: Non Functional Requirement: Response time

Name	Response time
Description	Response times should be less than 2 seconds for any action.
Approach	Measure and optimize server interactions

Table 3.3: Non Functional Requirement: SEBI runtime

Name	SEBI runtime
Description	The system must fill all requirements running on the SEBI servers.
Approach	Test thoroughly on the SEBI servers.

3.2 User Stories

input user stories here

3.3 Use Cases

User stories in bigger detail here once required

3.4 Mockups