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COS 730

SOFTWARE ENGINEERING 1

UPRM

University of Pretoria Research Manager
Software Requirements Specification

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Contents

1	Introduction	2
1.1	Purpose	2
1.2	Scope	2
1.3	Definitions, Acronyms and Abbreviations	2
1.4	References	2
1.5	Overview	2
2	General Description	3
2.1	Product Perspective	3
2.2	Product Functions	3
2.3	User Characteristics	3
2.4	General Constraints	3
2.5	Assumptions and Dependencies	3
3	Specific Requirements	4
3.1	External Interface Requirements	4
3.1.1	User Interfaces	4
3.1.2	Hardware Interfaces	4
3.1.3	Software Interfaces	4
3.1.4	Communication Interfaces	4
3.2	Functional Requirements	4
3.2.1	Functional Requirement/Feature Name	4
3.3	Use Cases	4
3.3.1	Use Case Name or Number	4
3.4	Classes/Objects	4
3.4.1	Class/Objects Name or Number	4
3.5	Non-Functional Requirements	4
3.5.1	Performance	4
3.5.2	Reliability	4
3.5.3	Availability	4
3.5.4	Security	4
3.5.5	Maintainability	4
3.5.6	Portability	4
3.6	Inverse Requirements	4
3.7	Design Constraints	4
3.8	Logical Database Requirements	4
3.9	Other Requirements	4

4	Analysis Models	5
4.1	Sequence Diagrams	5
4.2	Activity Diagrams	5
5	Change Management Process	5
6	Appendices	6
6.1	Appendix 1	6
6.2	Appendix 2	6
6.3	Appendix 3	6

1 Introduction

1.1 Purpose

This document serves as the software requirements specification for UPRM (University of Pretoria Research Manager). The requirements will include both the functional and non-functional requirements. This document is written as a requirements guideline for the software engineers and any other party involved in the creation of UPRM.

1.2 Scope

1.3 Definitions, Acronyms and Abbreviations

- **UPRM** - The system at hand, University of Pretoria Research Manager

1.4 References

1.5 Overview

2 General Description

2.1 Product Perspective

2.2 Product Functions

2.3 User Characteristics

2.4 General Constraints

2.5 Assumptions and Dependencies

3 Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

3.1.2 Hardware Interfaces

3.1.3 Software Interfaces

3.1.4 Communication Interfaces

3.2 Functional Requirements

3.2.1 Functional Requirement/Feature Name

3.3 Use Cases

3.3.1 Use Case Name or Number

3.4 Classes/Objects

3.4.1 Class/Objects Name or Number

3.5 Non-Functional Requirements

3.5.1 Performance

3.5.2 Reliability

3.5.3 Availability

3.5.4 Security

3.5.5 Maintainability

3.5.6 Portability

3.6 Inverse Requirements

3.7 Design Constraints

3.8 Logical Database Requirements

3.9 Other Requirements

4 Analysis Models

4.1 Sequence Diagrams

4.2 Activity Diagrams

5 Change Management Process

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6 Appendices

6.1 Appendix 1

6.2 Appendix 2

6.3 Appendix 3