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UNIVERSITY OF PRETORIA

COS 730

SOFTWARE ENGINEERING 1

UPRM

University of Pretoria Research Manager
Software Requirements Specification

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February 13, 2016

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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** - 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