

University of Pretoria

COS 730

SOFTWARE ENGINEERING 1

UPRM

University of Pretoria Research Manager Software Requirements Specification

Author:
Jason Richard Evans
Vivian Venter

u13032608u13238435

Contents

| 1 | \mathbf{Intr} | roduction | 3 |
|----------|-----------------|---|---|
| | 1.1 | Purpose | 3 |
| | 1.2 | Scope | 3 |
| | 1.3 | Definitions, Acronyms and Abbreviations | 3 |
| | 1.4 | References | 3 |
| | 1.5 | Overview | 3 |
| 2 | Ger | neral Description | 4 |
| | 2.1 | Product Perspective | 4 |
| | 2.2 | Product Functions | 4 |
| | 2.3 | User Characteristics | 4 |
| | 2.4 | | 4 |
| | 2.5 | Assumptions and Dependencies | 4 |
| 3 | Spe | cific Requirements | 5 |
| | 3.1 | External Interface Requirements | 5 |
| | | 3.1.1 User Interfaces | 5 |
| | | | 5 |
| | | | 5 |
| | | 3.1.4 Communication Interfaces | 5 |
| | 3.2 | Functional Requirements | 5 |
| | | | 5 |
| | 3.3 | Use Cases | 5 |
| | | 3.3.1 Use Case Name or Number | 5 |
| | 3.4 | Classes/Objects | 5 |
| | | | 5 |
| | 3.5 | Non-Functional Requirements | 5 |
| | | | 5 |
| | | | 5 |
| | | | 5 |
| | | 3.5.4 Security | 5 |
| | | | 5 |
| | | 3.5.6 Portability | 5 |
| | 3.6 | | 5 |
| | 3.7 | | 5 |
| | 3.8 | | ŏ |
| | 3.0 | | 5 |

| 4 | Ana | alysis Models | \mathbf{s} | | | | | | | | | | | | | | | | | |
|---|---------------------------|---------------|--------------|--|--|--|--|--|--|--|---|--|---|--|--|--|--|--|--|--|
| | 4.1 | Sequence Dia | agrams | | | | | | | | | | | | | | | | | |
| | 4.2 | Activity Diag | grams | | | | | | | | • | | • | | | | | | | |
| 5 | Change Management Process | | | | | | | | | | | | | | | | | | | |
| 6 | App | Appendices | | | | | | | | | | | | | | | | | | |
| | 6.1 | Appendix 1 | | | | | | | | | | | | | | | | | | |
| | 6.2 | Appendix 2 | | | | | | | | | | | | | | | | | | |
| | 6.3 | Appendix 3 | | | | | | | | | | | | | | | | | | |

1 Introduction

- 1.1 Purpose
- 1.2 Scope
- 1.3 Definitions, Acronyms and Abbreviations
- 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

TO ADD TEXT

- 6 Appendices
- 6.1 Appendix 1
- 6.2 Appendix 2
- 6.3 Appendix 3