Software Requirements Specification

Version 1.0

April 15, 2XXX

Web Publishing System

Joan XXXXXX

Paul XXX

Bobbie XXX

Charles XXXXX

Submitted in partial fulfillment

Of the requirements of

CS 310 Software Engineering

# Table of Contents

[Table of Contents i](#_Toc77487619)

[1.0. Introduction 1](#_Toc77487621)

1.1. Project Description 1

1.2. List of Actors 1

[1.3. Scope of Projects 2](#_Toc77487624)

[1.4. References 2](#_Toc77487625)

[2.0. Overall Description 4](#_Toc77487627)

[2.1 Functional Requirements 5](#_Toc77487629)

[2.1.1 Use Case 5](#_Toc77487630)s

2.1.2 Entity Relationship Diagrams

2.1.3 Data Flow Diagrams

[2.2 Non-Functional Requirements 15](#_Toc77487649)

2.2.1 System Requirements

2.2.2 Performance Requirements

2.2.3 Security Requirments

2.2.4 Database Requirments

2.2.5 Safety Requirments

**1. Introduction**

**1.1 Project Description**

**1.2 List of Actors**

**Example: Reader, Author, Reviewer, Editor**

**1.3 Scope of Projects**

**1.4 References**

**Example:** IEEE. IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications*.* IEEE Computer Society, 1998.

**2. Overall Description**

**2.1Functional Requirements**

**2.1.1Use Case**

#### **Example :**Search Article

**Diagram:**

Reader

Search Article

**Brief Description**

The Reader accesses the Online Journal Website, searches for an article and downloads it to his/her machine.

**Initial Step-By-Step Description**

Before this use case can be initiated, the Reader has already accessed the Online Journal Website.

1. The Reader chooses to search by author name, category, or keyword.
2. The system displays the choices to the Reader.
3. The Reader selects the article desired.
4. The system presents the abstract of the article to the reader.
5. The Reader chooses to download the article.
6. The system provides the requested article.

**2.1.2 Entity Relationship Diagrams**

**Example:**

Review

Reviewer

Article

Author

writes

sent to

writes

has

**Author Data Entity**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data Item** | **Type** | **Description** | **Comment** |
| Name | Text | Name of principle author |  |
| Email Address | Text | Internet address |  |
| Article | Pointer | Article entity | May be several |

**Reviewer Data Entity**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data Item** | **Type** | **Description** | **Comment** |
| Name | Text | Name of principle author |  |
| ID | Integer | ID number of Historical Society member | Used as key in Historical Society Database |
| Email Address | Text | Internet address |  |
| Article | Pointer | Article entity of | May be several |
| Num Review | Integer | Review entity | Number of not returned reviews |
| History | Text | Comments on past performance |  |
| Specialty | Category | Area of expertise | May be several |

**2.1.3 Entity Relation Diagram**

system

Passed in

transaction

n

Customer

Generates bill

buys

owner

items

Checks

status

product

Update inventory

item

**2.2 Non Functional Requirements**

**2.2.1 System Requirements**

**2.2.2 Performance Requirements**

**2.2.3 Security Requirments**

**2.2.4 DatabaseRequirements**

**2.2.5 SafetyRequirements**