

# ***Computer Shop Management System Software Requirements Specification***

## Revision History

Date	Version	Description	Author
7/1/2018	1.0	<details>	Luong Thai Duong Tran Hoang Anh

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# **Software Requirements Specification**

## **1. Introduction**

Buying or viewing the available books at computer shop is currently done manually where the customers have to go to the shop to check the available computers. This may become a waste of time if the customer's desired computer is unavailable at the computer. And it is inconvenient for the customers from remote areas to buy computer. In addition, the employees of our computer shop may find difficulty in managing the books in the bookstore.

Therefore, we have decided to establish a Computer Shop Management System. This system would be used by customers to check the availability of the computers and buy the computers, and by the employees to sell the computeres and update the databases. The purpose of this document is to analyze and elaborate on the high-level needs and features of the Computer Shop Management System. It focuses on the capabilities and facilities provided by a shop.

### **1.1 Purpose**

The purpose of Software Requirements Specification document is to describe the external behavior of the Computer Shop Management System. Requirements Specification defines and describes the operations, interfaces, performance, and quality assurance requirements of the Computer Shop Management System. The document also describes the nonfunctional requirements such as the user interfaces. It also describes the design constraints that are to be considered when the system is to be designed, and other factors necessary to provide a complete and comprehensive description of the requirements for the software. The Supplementary Specification captures the complete software requirements for the system, or a portion of the system. Requirements described in this document are derived from the Vision Document prepared for the Computer Shop Management System.

### **1.2 Scope**

The Software Requirements Specification captures all the requirements in a single document. The Computer Shop Management System that is to be developed provides the customers and the employees of the bookstore with books information, online shopping of books and many other facilities.

### **1.3 Definitions, Acronyms, and Abbreviations**

- HANU – Hanoi University

### **1.4 Overview**

The Computer Shop Requirements Specification will provide a detailed description of the Bookstore Management System. This document will provide the outline of the requirements, overview of the characteristics and constraints of the system.

## **2. Specific Requirements**

### **2.1 Logical Database**

The purpose of logical database requirement is to define the basic structure of the application at a conceptual level. The database focuses on data storage of customer, book and order and the relationships between these entities. Thus, the data need to satisfy the following requirements:

- Types of information used by various functions
- Accessing capabilities
- Database to integrity
- The data related closely to each other by primary key in each entity

### **2.2 Interface**

- Must be secure, convenient and extensible
- Protect authorization information from unauthorized access, the maintenance of customer confidentiality and tracking of payments in progress
- Be efficient in terms of both speed and user interaction
- Be easy for users to use

### **2.3 Content**

- The content of the website is consistent with Vietnamese habits and customs
- Information about books is up-to-date
- Types of different books satisfy user's demands

### **2.4 Size and Performance**

The major dimensioning characteristics of the software that impact the architecture and performance constraints:

- The system shall support up to 1000 concurrent users against the primary database at any given time, and up to 500 concurrent users against the local servers at any one time.
- The system must perform all functions with minimal time delays.
- The system must also accurately save all information transactions.

## **2.5 Quality**

The system architecture supports the quality requirements:

- In order to maintain the highest degree of system integrity, the system is capable of ensuring that all information transitions are saved.
- Databases will be backed up on a daily basis in concern with safety implications.
- The system website is capable of display correctly on different devices web browser of any screen size (i.e. responsive design).
- All system website functions are available through popular web browsers; for instance, Google Chrome, Mozilla Firefox, Opera, Safari, Microsoft Edge, Internet Explorer.

## **2.6 License**

License belongs to computers shop that purchased the Computer Shop Management System from Group - class 4C15 HANU and agreed on the maintenance contract.

## **2.7 Legal, Copyright, and Other Notices**

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## **2.8 Applicable Standards**

ISO/IEC 27001 - Information Technology Management.