

SYSTEM ENGINEERING

Shri Mata Vaishno Devi University Katra (J&K)



SRS ON

STUDENT'S LIBRARY MANAGEMENT

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14BCS017

COMPUTER SCIENCE & ENGINEERING

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INTRODUCTION

1.Purpose:-

The purpose of Software Requirements Specification (SRS) document is to describe the external behavior of the Online Library System. Requirements Specification defines and describes the operations, interfaces, performance, and quality assurance requirements of the Online Library 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.

1.2 Intended audience and reading suggestions:-

We are developing our project Library Management System for the college or any Institute. But this project can be deployed in any organization. This SRS is mainly developed for the project development team. In this team there are the project manager, developer, coder, tester and documentation writer and the user of the project also.

1.4 Scope:-

The Software Requirements Specification captures all the requirements in a single document. The Online Library System

that is to be developed provides the members of the Library and employees of the library with books information, online blocking of books and many other facilities. The Online Library System is supposed to have the following features.

- i. The product provides the members with online blocking of books capabilities and the Online Library System is up and running all day.
- ii. The system provides login facility to the users.

1.5 Reference:-

- a. www.google.com
- b. www.wikipedia.com
- c. www.github.com

2. Overall Description:-

2.1 Brief Description:-

2.1.1 User Interface:-

- i. The design or layout of every form will be very clear and very interactive to the user.
- ii. When the user opens the software the welcome window will appear.
- iii. In the login window the user can easily enter the desired password and login name.
- iv. Then it will give the successful login message.
- v. From each and every window the user can easily go to any desired window that is there will be an absolute and relative linking.

2.1.2 Hardware Interfaces:-

The existing Local Area Network (LAN) will be used for collecting data from the users and also for updating the Library Catalogue.

2.1.3 Software Interfaces:-

Database: SQL Server.

Application: ASP (Active Server Pages)

Web Server: IIS (Internet Information Services (IIS) is a powerful Web server that provides a highly reliable, manageable, and scalable Web application infrastructure).

2.1.4 Operating Environment

The software will operate with the following software components and applications The software being developed will be running under Windows 8/8.1/10 Linux (Ubuntu 16.04/16.10 Its kubuntu16.04/16.10) embedded operating system.

2.2 Product Details:-

- i. Keep record of different categories like; Books, Journals, Newspapers, Magazines, etc.
- ii. Classify the books subject wise.
- iii. Easy way to enter new books.
- iv. Keep record of complete information of a book like; Book name, Author name, Publisher's name, Date/ Year of publication, Cost of the book, Book purchasing date/ Bill no.
- v. Easy way to make a check-out.
- vi. Easy way to make a check-in.
- vii. Automatic fine calculation for late returns.
- viii. Different criteria for searching a book.
- ix. Different kind of reports like; total no. of books, no. of issued

books, no. of journals, etc.

3. Functional Requirements:-

3.1 Interface Requirements:-

This section describes how the software interfaces with other software products or users for input or output.

3.2 User Interfaces:-

Describes how this product interfaces with the user.

GUI:

Describes the graphical user interface if present. This section should include a set of screen dumps or mockups to illustrate user interface features.

4. Non-Functional Requirements:-

4.1 Communications Interfaces :-

- i. The Customer must connect to the Internet to access the Website.
- ii. Dialup Modem of 52 kbps.
- iii. Broadband Internet.
- iv. Dialup or Broadband Connection with a Internet Provider.

4.2 Safety Requirements

The database may get crashed at any certain time due to virus or operating system failure. Therefore, it is required to take the database backup

5. Document Approval:-