Software requirement specification

1. **Introduction**

This document includes the software requirement specification(SRS) of the system. The overall working of the system and the requirements of the system is understood by this document. The online book store is designed to help the customers to purchase the various genres of books they wish to read.

In this system the customers can view the different categories of books written by various authors around the world. If the customer wants to purchase any of the books, they can view the books in detail and then by registering and logging into the portal they can purchase the books.

Once the customer register to the portal by entering all the valid credentials they must sign in to the web page with their login ID and password. The customers can update the profile details as well as their password details. The customers can then purchase the books they wish to read by adding it cart. Once the payment is complete, they can view the download the e-books and other books will be delivered to their shipping address. The customers can view their purchase report and billing receipt.

The book seller or the publisher must login to the website using the login details provided by the admin. The books of their publications must be added by them along with the price and other details. Once the customer purchase the book, the purchase report will be available to the book sellers and they can deliver the book to the shipping address provided by the customer.

The admin of the web page must add the book sellers and authors. The admin can add the different categories of the books. Once the category is added based on the categories the different books can be uploaded by the admin. The admin can view purchases done by various customers and also the admin can view the customer details. The admin is the one who manages the entire web page and monitors all the users as well as the activities of the web page.

The system uses MySQL database hence all the records of the system will be stored in the MySQL database server. Whenever the users of the website view any data in web page, the data from the database is fetched and made available to the users. Hence MySQL database server plays the prominent role in the working of the system.

**1.1 Purpose**

The purpose of the system online book store is to help the customers in the case when they need to purchase the books of their choice. The customers doesn’t have to search in different websites as the proposed system Online Book Store provides all categories of books in one particular website. This makes the customers easier to search and purchase which ever categories or authors books they need it can be e-books or paper cover books. Hence the web application Online Book store is a efficient project as it makes the customers view various books and purchase them to help them in their habit of reading.

**1.2 Project Scope and Product Features**

The features of this system are as follows:

* The customers must register to the website by entering all their details. Once the registration is successful they can login to the web page.
* Customer can update their profile details and also they can change their password details.
* The customers can then purchase the books they wish to read by adding it cart.
* Once the payment is complete, they can view the download the e-books and other books will be delivered to their shipping address.
* The customers can view their purchase report and billing receipt.
* The book seller or the publisher must login to the website using the login details provided by the admin.
* The books of their publications must be added by them along with the price and other details.
* Once the customer purchase the book, the purchase report will be available to the book sellers and they can deliver the book to the shipping address provided by the customer.
* The admin of the web page must add the book sellers and authors.
* The admin can add the different categories of the books. Once the category is added based on the categories the different books can be uploaded by the admin.
* The admin can view purchases done by various customers and also the admin can view the customer details.
* The admin is the one who manages the entire web page and monitors all the users as well as the activities of the web page.

## Definitions, acronyms, abbreviations

* SRS – Software requirements specifications.
* PHP - A server side scripting language.
* MySQL - The database that will be used for this project.
* http – Hypertext transfer protocol
* www – World wide web

## References

* Software engineering by Pankaj Jalote
* www.w3schools.com
* [www.tutorialspoint.com](http://www.tutorialspoint.com)

**1.5 Overview**

The SRS document includes the overview of the online book store. It includes all the description about the proposed project. All the requirements of the system such as perspective of the system, interfaces and characteristics of the system is included in the SRS document. All the specific, external, functional and non functional requirements are met in this document.

1. **Overall description**

Overall description in the SRS document includes the product perspective, system interfaces of the website, user classes and characteristics, operating environment of the system, various design and implementation constraints and all the documentation and the requirements are specified.

**2.1 Product perspective**

The proposed project online book store helps customers to purchase the various books in one particular platform. The perspective of the product is that the customers do not have to search in various platforms for different categories of books as all the books from various publications and authors all over the world are available in the online book store itself.

**2.2 System interfaces**

The website which is designed uses the internet and also works without internet for some of the functionalities. The interface used in the system communicates with all the users of the system.

**2.3 User classes and characteristics**

The characteristics of the system includes that the administrator of the system must have the complete knowledge about all the technology used in the system. The users of the system must have the knowledge of the internet, computer and some features which are required to use the system.

**2.4 Operating environment**

The proposed system can be executed in most of the browsers such as Chrome, Firefox, Microsoft edge, internet explorer etc.

The project uses xampp control panel and Apache server to run the project and MySQL server is used to create and manage the database.

**2.5 Design and implementation constraints**

The system is designed using the PHP, HTML5 and CSS3 coding and all other documentation is maintained. The system design follows the problem solving methodologies of the software system such as problem definition, design, coding, testing and debug and document processes are followed.

The database is designed using the MySQL server and the database is connected to the project in the coding using the SQL queries.

**2.6 User documentation**

Documenting the designed project is necessary for the understanding of the user. Any system which is developed must be documented as it is required for the future user to know the deep knowledge of the system.

The user document acts as a manual for the future users as it helps them to know the details of the system as well as to maintain and modify the system in the future.

**2.7 Assumptions and dependencies**

The developed system will work without any complexity in any of the platform such as in mobile phones, laptops, desktops in any remote areas.

The necessity for the project is the continuous supply of internet.

Since the system works under several servers for project as well as database, must make sure that the servers are on throughout.

1. **Specific requirements**

This section includes the requirements of the system such as external, user and various functional requirements which are to be followed by the system design to assure the quality of the system.

**3.1 External interface requirements**

There are several features in this section which gives the detailed description of the system requirements. It concentrates on the various interfaces of the system such as user interface, hardware and software interface and communication interface.

**3.1.1 User interface**

This includes the users of the system. The system is used by three of its users.

* **Admin**: The one who manages the entire website. Admin monitors all the activities that happens in the webpage and also monitors customer accounts.
* **Book seller:** The book seller is added by the admin and the login credentials are provided later. Book seller must add the various books published in their publication.
* **Customer**: The customer is the one who can purchase the various categories of books uploaded in the website.

**3.1.2 Hardware interface**

* **Operating system:** Windows XP or higher
* **Hard disk:** 40 GB hard disk
* **RAM:** 1 GB RAM
* **Processor:** Intel Pentium or above

**3.1.3 Software interface**

* XAMPP 1.8.2
* Apache server
* PHP 5.4
* MYSQL server 5.5
* Adobe dreamweaver CS 6.0

**3.1.4 Communication interface**

The only source of communication of the system is internet. The system uses internet to keep the website active as well as all the users of the system can use the system by having the internet connection in their respective devices.

**3.2 Functional requirements**

This includes the features of the various modules of the project.

* **Admin account module**: Admin is the one who manages the entire website and also has the full authority over all the activities of the online book store. The admin monitors the other users of the website.
* **Book seller account module:** Book seller is added by the admin. They must add the different categories of books published in their publications for the user to purchase.
* **Customer account module:** Customer must register by entering all the details. Once the registration is successful they can login to the web page by entering valid login credentials.
* **Category module**: in this module, admin can add the various categories. The category includes the name of the category and description about the category.
* **Author module**: In this module, the admin can add the various authors all around the world. The customers can view the books written by various authors through this module.
* **Book module**: this module allows the admin or the book seller to add the books of different categories by mentioning the publication, description and type of the book. It also includes e-book, paperback book and hardcover book.
* **Digital download module:** If the customer has ordered e-book and completed the payment process then they can download the softcopy of the book in this module.
* **Purchase module:** The purchase made by the customer can be viewed in this module. The admin can update the delivery status of the customer’s purchase in this module.
* **Billing module:** This module allows the customer to view their bill receipt once the payment is done. The book sellers and the admin can view the billing report in this module.

1. **Other non-functional requirements**

**4.1 Performance requirements**

* The users all over the world can use the system at any time since it is available 24/7.
* The response from the system is quick enough as the web servers used perform at a good speed.
* Since the system is independent of the device, users can access the system anywhere from the world using any device provided they must remember their login information.

**4.2 Safety requirements**

Since the developed system is the website there is no necessity of the safety requirements.

**4.3 Security requirements**

The system is managed only by the admin of the website. The admin as well as the employees are authorised members of the system and have a valid login credentials.

The other users of the system are customer and the book seller, since these users have to login to the website and the admin of the system has the right to edit or delete their details there is no chance of misuse of the system by any other intruders.

**4.4 Software quality attributes**

Since the system doesn’t operate well in the absence of internet, the breakage of internet would cause the system not function. In such scenarios the system will notify the users of the website to resume their work once the internet connection is back with speed.