**SOFTWARE REQUIREMENT SPECIFICATION**

**For**

**ONLINE BOOK SYSTEM**



**Course**: CSE327

**Faculty** : MMA1

**Sec**: 6

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**INTRODUCTION:**

1.**1 Purpose** : Our main purpose is to distribute soft copies of books as pdf to the students. Users browse books online and have their choices downloaded, rather than physically visiting a library to borrow a book. This system will be so time consuming. As it is totally free, students who are not able to purchase the book can get the pdf of that book easily and free. In addition to convenience, the service also offers an ease-of-use benefit to the students of all departments, especially engineering students. Students can also read online on this website. Students need to enter this website with proper log in. All students can get knowledge for this website and pass their semester exams with good grades. Many rare engineering books will be uploaded here as students can find those books when they need it and download it. These are the main purposes of our project.

**1.2 Intended audience**: This online book system is for different types of readers. This document is intended for both users and customers to ensure them that this document is well meeting the need of the users. We are developing our project online book system for all kinds of university. We are making this project as a team. For the project manager, the system features is very important because project manager can estimate the cost easily by referring to the SRS document. The project developer will refer to the SRS document. The tester must be aware of coding language. The document writer should write the qualitative document.

**1.3 Intended use**: This online book system can be used by students of all department. This system provides the members with online blocking of books capabilities and the Online Library System is up and running all day. Faculties can also use this for their purposes. It will be used like a cloud library system.

**1.4Product Scope**: This application will allow anyone to read their desired books online and not to worry about spending money on hard copies. User interface will be designed in such a way that users can instantaneously identify and read books without a headache.

**1.5 Risk Definition**: We have to keep in mind that there are various risks in every work. We need to make sure that this system is protected from any kind of malicious attack that can disrupt the systems intended operation. Books have copyright issues that’s why it is challenging not to include any pirated books. Users must have single account registered via email and their location will be traced in case of any misdemeanors

**Overall Description**

**2.1 User Classes and Characteristics**: The user’s classes may be viewed from two perspectives. The first is from the perspective of “group”. Users are only member. Members can just get a service or reuse an existing service. In addition to the privileges enjoyed by the member, he has the privilege to read all book what is available in our application. The second is from the perspective of services present in the group. In this case users are either a student or not. Both group can get books for that application and they also can suggest a book in our application.

**2.2 User Needs**:

• Books availability

• Smooth online system

• User friendly

• Some editions of same books

**2.3Operating environment**:

• Operating System: Ubuntu, Linux mint, Windows 7, 8, 10 and Android 5.0, 6.0, 7.0, 8.0,

• Hardware Platform: Devices should have minimum 512MB RAM.

**2.4 Design and Implementation Constraints**: The website will contain the HTML files, images, videos, flash files, Databases, Python. Time: - the time required to develop the website and the android app may exceed the estimated schedule if – o Further features requests after the initial design stages. Hardware changes that impact performance etc.

Agreement: - Students will be informed and students agreement will be made before registration for recording the microphone while using then voice search.

User Documentation: - This is to help the user’s admin and student level to maintain, update and use the website easily. Admin Level: Login: need to type a user name and password, and then select user type “Admin” for login to the site as an admin. The Admin Area: can make changes; add new books name in books chart, check for availability, and anything related to the website here. Logout: After finishing work, can logout from the site by clicking the logout button at the upper right corner. Customer level: Registration: If Students want to search the books then he/she must be registered, unregistered users can’t go to the application. Login: Customers have to login to the system by entering valid user name and password for the shopping. Make list: Students can make the list of required books in the search option and the searched items with all available versions and details will appear on the screen. Multiple search: Students can make the list by just searching the names of the books properly. Changes to Cart: Students can keep books to read in future in the chart item. Logout: After ordering or surfing for the product customer has to logout.

**2.5 Assumptions**: Working of the book needs Internet Connection. External Interface Requirements User Interfaces Various interfaces for the product could be-

1. Login Page
2. Registration Form
3. There will be a screen displaying information about books that the application having.

Hardware Interfaces: - Since the application must run over the internet, all the hardware shall require to connect internet will be hardware interface for the system. As for e.g. Modem, WAN – LAN, Ethernet Cross-Cable.

Software Interfaces: - During our system development, we have to design both static and dynamic website interfaces, create website functions and a database system, edit photos and pictures, and print out reports, so it has a set of software requirements. The following are needed requirements. Operating System: Windows/Linux/Mac and any OS which supports networking. Python Django Framework. SQL Web browser.

Communications Interfaces: - The two parties should be connected by LAN or WAN for the communication purpose.

**Overall Description**

**3.1 Functional Requirements**

1. Registration: For searching books, user has to registered. Otherwise he/she is unable to get books.
2. Login: For getting, users need to use a valid user userID and password for login to the system.
3. Library Notification: Notify for out of stock book
4. Add to saved list: For getting books, user select the books what they need.
5. Multiple search: Multiple search means, user can search different types of books from different section at a time.
6. Category of menu: From here user can get various type of books from various sections.
7. History of searches: After user selects/searches books the system will show user/recent history of user searches/books downloaded.
8. Ai Chat-Bot: In this website, we are trying to implement an AI chat-bot which helps a customer to search a specific book and it gives the users the link of that specific book and also recommends the best books.
9. Suggestions/feedback: If user needs any kind of help regarding any problems of the website or if user want to suggest some tips about any improvements, then this option will help to connect the user with admin.
10. Logout: After finishing all the process in the site, user has to logout from the system.
11. Other Non-functional requirements- 5.1 Performance Requirements: To preserve a passable most extreme speed for the framework for the most extreme utilization of the client, any number of clients can get to the framework at any time at that speed. 5.2 Safety Requirements: The application will not influence information put away the exterior of its server nor will it influence any other web applications. It cannot cause any harm to the phone or its inner components. The as it were potential security concern related to this application applies to essentially all handset apps. This app ought to not be utilized whereas working a vehicle or in any other circumstance where the user's consideration must be centered somewhere else. 5.3. Security Requirements: Since this program will be facilitated on the server, all the client information will be kept on the server. The item ought to be able to ensure the protection of client information. The workspace of the client ought to as it was begotten to through client possess qualifications and any other client ought to not be able to get to the client private data. Since execution will moreover be drained the machine within the server, the client ought to be limited in terms of client rights. The client ought to as it got to his possess workspace and ought to not get to any other workspace with the programs they run on the server. The rights of the client ought to be confined so that the client cannot hurt the framework by the programs they run or by the commands they run on terminal. Since all the information will be exchanged on the net, framework ought to too utilize encryption and unscrambling components as it was aiming the client can translate the information and work on the data. 5.4. Software quality attributes: This program is simple to utilize for both designers and clients. A few critical properties of our project are that it is secured, usable, accessible, well performed. A few other traits that we worked on are adaptability, strength, operability, viability. We emphasized more on straightforwardness instead of predominance so that common individuals discover it simple to utilize. 5.5. Business rules: Our program will be built in such a way that it'll be reliable to all. Security is our fundamental concern so that it doesn't make any mistake and in case of a blunder, it'll have a framework so that our clients can get a discount. We'll moreover, guarantee that our clients and sales representatives both can effortlessly unravel an exchange mistake. Appendix Appendix A: Glossary Term Description SRS Software Requirement Specification. eCommerce Electronic Commerce, commonly known as eCommerce or e-commerce or e-business consists of buying and selling of products or goods and services over electronic system such as Internet and other computer networks. Customer People who will purchase from this ecommerce system. Administrator The vendor who will purchase this ecommerce website for their business and maintain the site. Website Wireframe : A visual guide that represents the frame work of a website. HTML (Hypertext Markup Language)Standard markup language for creating web pages and web applications. Normal search Typing single search items or typing item list (multiple searches at a time) for search in the search menu. Multiple search Searching an item or list of item at a time by writing the item names properly. Operating System The software program of a computer or mobile devices that manages the hardware and software of the device to run this website. Hardware Platform The set of compatible hardware that will enable this service run on the device. Modem A network hardware device. WAN-LAN (Wide Area Network and Local Area Network) Computer networks that interconnect computers over a large area and limited area respectively. Ethernet Cross-Cable Network technology that connect computing devices together directly. Server A program that processes requests and deliver data to another electronic device (computer or mobile device) over internet or a local network.