

# **Used Books Sale App Project**

## **Software Requirements Specification**

### **1. Problem Statement**

During the pandemic, many people were staying home and working from home. With them having more free time than before, most of them started building a new hobby of reading books. After finishing reading the books, they want to share the books with others and get another book for themselves.

#### **1.1 Introduction :**

The introduction to the Software Requirements Specifications provides the purpose, scope, definitions, abbreviations and overview of the entire bookstore application which we are developing. The aim of this document is to give an insight of the used books application.

#### **1.2 Purpose :**

The purpose of this document is to create an application where users can sell the books which they have completed reading and can purchase books which they have on their reading list. The platform should provide the options to the user to sell and buy the books.

This product is aimed toward a user who wants to get books at less price and who can't visit the shop to buy books as he might not get time for that or might not be interested in visiting there and dealing with a lot of formalities.

Our project is meant to give people a better and trustworthy platform where they can sell and buy cars of their own choice and on their own terms and conditions. By providing features such as convenience of the customer, wide selection, cost savings, accessibility, variety and rare finds and many more

The document is delineate the features of the used books application, to serve as a guide to developers on one hand and a software validation document for the prospective client on the other

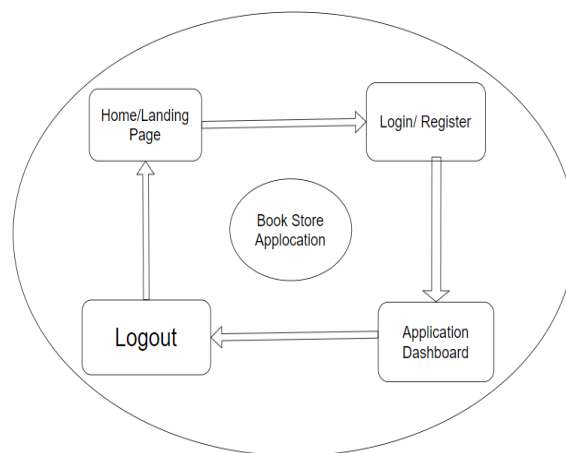
#### **1.3 Users of the website :**

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## 1.4 Scope :

The Scope of this Application includes the following things:

- Single registration and login form for all users.
- Users will have access to different components based on their roles (user, admin).
- The UI (User Interface) will be responsive and user-friendly, providing an intuitive experience for users.
- User authentication and authorization for registered users.
- Book browsing based on category, genre, and other filters.
- Display of detailed book information, including images and details such as author, genre, price etc..
- Adding Subscription feature to User(while selling).
- Display of customer reviews and frequently asked questions (Q&A).
- Display of buyer's buying history and seller's selling history.
- User profile with options such as total listing, books sold, orders, notification.
- Admin functionality for managing requests and actions , book management, user management, .
- Integration with Angular for the frontend, Spring Microservices for the backend, and SQL databases for data storage and retrieval.



Main Functionality

## 1.5 Definitions, Abbreviations :

SRS: Software Requirements Specification

## 1.6 References :

BookFlow website: <https://bookflow.in/>

BookChor Website: <https://www.bookchor.com/>

## 2. The Overall Description

This system provides an easy solution for Users to buy and sell the books without going to the shop and also to shop owners to sell the product. This proposed system can be used by any users and it does not require any educational level, experience or technical expertise in the computer field, but it will be of good use if the user has the good knowledge of how to operate a computer.

### 2.1 Product Functions :



## **3. Specific Requirements**

### **3.1 Functional Requirements :**

This section provides a requirement overview of the system. Various functional modules that can be implemented by the system will be:

#### **3.1.1 Registration :**

If a customer wants to buy the book then he/she must be registered, unregistered users can't go to the shopping cart. User should be able login and register with the platform. While registering customer needs to provide the following information

- A. Full Name
- B. Mobile Number
- C. Email Address
- D. Password
- E. Confirm Password

#### **3.1.2 Login :**

Customer logs in to the system by entering valid user id and password for the buying and selling books

#### **3.1.3 User can access the following services :**

- A. Browse different books and adding filters
- B. Buy a book
- C. Sell a book
- D. Add books to favorite list
- E. Purchase a book
- F. Changes to books cart
- G. Review for the seller
- H. User profile page

#### **3.1.4 Notifications :**

The application shall send notifications to users for actions such as successful listing creation, book purchase, or changes to a listing. Users shall be able to enable or disable notifications.

### **3.1.5 Payment :**

We are accepting both offline and online payments

### **3.1.6 Logout :**

After ordering or surfing for the product, the customer has to logout.

## **3.2 Non-Functional Requirement :**

1. App should be responsive to display consistently across multiple devices
2. The password should not be saved directly into the database (encryption methods should be used)
3. UI should be user friendly
4. Notifications and animations for more interactive sessions.
5. Secure access to user's confidential data.
6. 24X7 availability.

Various other Non-Functional Requirements are:

- Security
- Reliability
- Maintainability
- Portability
- Extensibility
- Reusability
- Compatibility
- Resource Utilization

## **3.3 Performance Requirements :**

In order to maintain an acceptable speed at the maximum number of uploads allowed from a particular customer as any number of users can access the system at any time. Also the connections to the servers will be based on the attributes of the user like his location and server will be working 24X7 times

## 4 User Characteristics

Users should be familiar with the terms like login, register, order system etc.

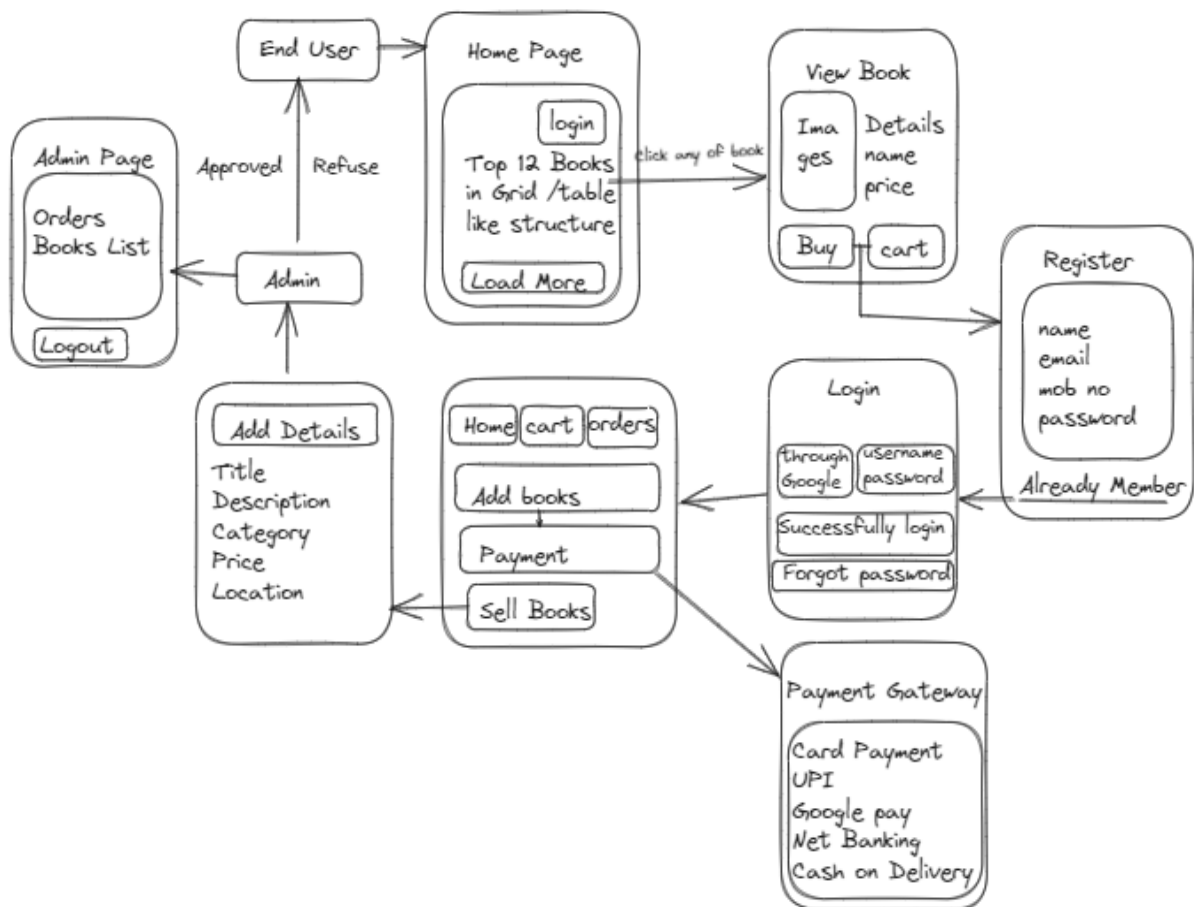
### 4.1 Principle Actors :

2 Principle Actors are Customer and Administrator.

### 4.2 General Constraints :

A full internet connection is required for using this application .

### 4.4 Design Architecture :



## Database Models :

Database Models	Description
User Table	userId      foreign      key      books username email userPassword Foreign key to User_Role
Role Table	Role_name Role_description
Books Table:	sellerId bookId bookName bookTitle bookAuthor bookPrice pickupAddress category_id genre_id status(SOLD/SELLING) image_url foreign Key book_image    join books table and book_images
Transactions Table:	transaction_id      (Primary      Key)

	user_id (Foreign Key referencing Users table) book_id (Foreign Key referencing Books table) transaction_date other transaction-related attributes (e.g., payment details, shipping information)
Order table	Order_id User_id Seller_id Order_time Order_date order_price
Cart table	Book_id User_id Total_amount
Feedback Table	feedback_id (Primary Key) user_id (Foreign Key referencing Users table) rating feedback_date comment
Genre	Genre_id Genre_name



## Microservices :

Microservice Model	Description
User service	This microservice provides the following services: <ul style="list-style-type: none"><li>1.register</li><li>2. login</li><li>3. verify</li><li>4. isUserExist</li><li>5. updateUser</li><li>6. getUser</li></ul>
Book Service	This microservice provides the following services: <ul style="list-style-type: none"><li>1. addNewBook</li><li>2. getAllBooks</li><li>3. getBookById</li><li>4. deleteBook</li><li>5. editBook</li></ul>
Admin service	This microservice provides the following services: <ul style="list-style-type: none"><li>1. verifyBook</li><li>2. getBookByStatus</li></ul>
Order service	This microservice provides the following services: <ul style="list-style-type: none"><li>1. getOrderList</li><li>2. getOrderConfirm</li><li>3. getCountOfBooks</li></ul>
Cart service	This microservice provides the following services: <ul style="list-style-type: none"><li>1. addBookTocart</li><li>2. getBooksFromCart</li><li>3. removeBooksFromCart</li><li>4. getCountOfBooks</li></ul>

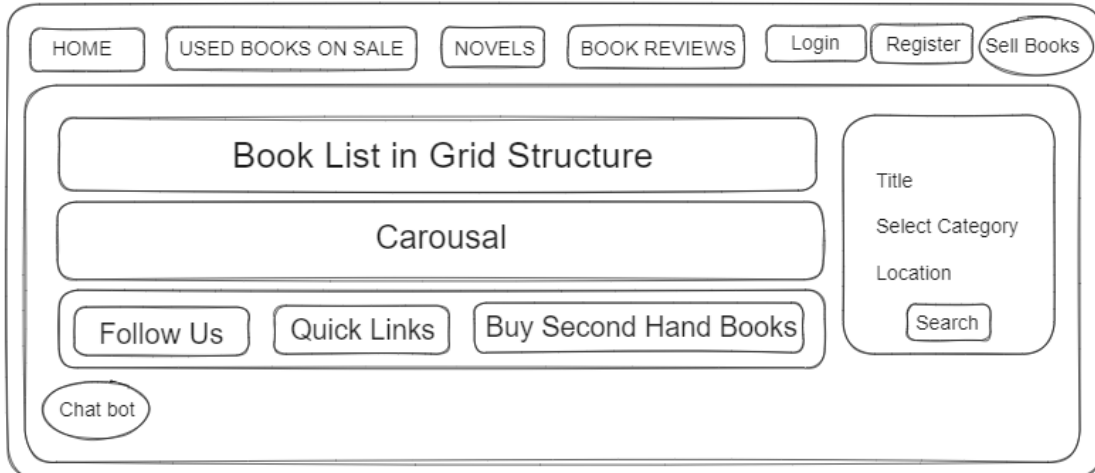
	5. increaseBooksQuantityInCart 6. decreaseBooksQuantityInCart
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## UI Components :

UI Components	Description
Login	User can login using this component
Signup	User can sign up using this component
Home page	User can see list of books and sell books and buy books
User dashboard	User can see his personal profile details, orders, books ads, edit details.
Contact us	Contact us to raise issue or complaints and request call back option
FAQ's	List of FAQs
Orders page	List of orders
Admin dashboard	Admin can see all the users, manage users and website

## Website UI Layout :

### Home Page



### Product Page



## Seller Page

Step 1 Ad Information	Step 2 Ad Details	Step 3 User Information
<p><b>Title *</b></p> <p>Enter title character limit (50).</p>	<p>Type of Ad *    Price Type *</p> <p>Price ₹ only *    Item Condition *</p> <p>Click the box below to ad photos! *</p>	<p><b>Your Name *</b></p> <p><b>Mobile Number</b></p> <p><b>City *</b></p>
<p><b>Category *</b></p> <p>Select suitable category for your advertisement</p>	<p>Publication/Author    No. of pages</p> <p>MRP(₹) *    Edition(Year)</p> <p>Type Of Book</p> <p>Ad Description .</p>	
<p><b>Sub-Category</b></p>		
<p><a href="#">Previous</a>   <a href="#">Next</a>   <a href="#">Submit</a></p>		