
Software Requirements Specification

for

Online Bookstore

Version 1.0 approved

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1. Introduction

1.1 Purpose

The Online Bookstore Project is meant to be a platform for customers to browse books on the website and buy and sell the books that they choose via internet without needing to go to a book shop and search by hand. The main purpose of this SRS is to define the functions and specifications of the project.

1.2 Document Conventions

This SRS for Online Bookstore's:

- Section titles are written in font "Arial" and with size 18 in bold.
- Subsection titles are written in font "Arial" and with size 14 in bold.
- Sub regulations are written in font "Arial" and with size 12 in bold.
- All texts and descriptions are written in font "Arial" and with size 12.
- All sections and subsections are numbered to make following easier.

1.3 Intended Audience and Reading Suggestions

This SRS provides communication between authors and product customers. The intended audience is project managers, development team, website administrators, marketing staff, book suppliers, documentation writers, and customers. For more proper understanding of the Online Bookstore project, this SRS document should be read in given order.

1.4 Product Scope

The software system is called "Online Bookstore". This system is produced to make a safe and easy environment for customers who are interested in selling and buying books via the Internet. In the system, it is allowed for every customer to create an account to become a user of the website. Customers, after creating an account, are also allowed to edit their profiles and share their payment information with the system for the future. The system allows customers to search, browse, see the book description, select, create a wish list, add to cart, and remove from cart. Customers also are allowed to sell books via online bookstore system. If they request, they are allowed to create, edit, and delete a secondhand book sale. To avoid unnecessary actions on the website, the system allows the admin/staff to approve the requested secondhand book sale, and also allows them to block a user that creates a secondhand sale if it is necessary.

1.5 References

An SRS of an online bookstore example:

<https://pdfcoffee.com/srs-of-online-bookstore-pdf-free.html>

2. Overall Description

2.1 Product Perspective

The Online Bookstore System will be a self-contained product. The web page will be done with HTML-CSS. Also, we store our information with PostgreSQL database.

2.2 Product Functions

Log-On Interface

- User can create an account.
- User can login with their account.

Account Interface

- Users can see their information (Card, Address, etc.).
- Users can see and create their Wishlist.
- Users can see their order and they can follow it.
- Users can cancel their orders.
- Users can see the books that they sold.

Book Sales Interface

- Users can add the books that they want to buy to their cart.
- Users can see all the books from here.
- Users can search the book they want.
- Users can add secondhand books.

Admin Interface

- Admins can see how much book sold.
- Admins can see currently added books.

2.3 User Classes and Characteristics

The intended user class for the Online Bookstore is everyone who likes to read. For that the user should know how to read a book. Also, the system requires basic knowledge of computer and internet. It is not expected that the user has any technical expertise, security, or privilege levels.

2.4 Operating Environment

The Online Bookstore System should run on Google Chrome and Mozilla Firefox. The system can be more efficient on Google Chrome because components are more compatible. Our system also supports Internet Explorer but using Internet Explorer may cause some problems because of its age.

2.5 Design and Implementation Constraints

The system should run on internet browsers, so we do this project with Html and CSS. For using this system, user should have an internet connection or user cannot able to access the system. Also, system should use a SQL database. This system should run on different internet browsers so it should be compatible.

2.6 User Documentation

There is only little help needed for using the Online Bookstore System. This help is available when you first enter the system and can be found on the top right of the screen with a help menu.

2.7 Assumptions and Dependencies

An assumption that we have is that if user use an old browser like Internet Explorer, they may encounter some unknown problems because of the browser. Another assumption is that if the user's internet is not fast enough, the speed could be a problem. This problem causes between database and the webpage. Our last assumption is the computer and internet knowledge of user. If user have little knowledge about these, they may have some difficult time using the system.

3. External Interface Requirements

3.1 User Interfaces

The system will let everyone to access the Online Bookstore via internet. There must be two different user interfaces where one will be for the customers, and one will be for the admin/staff:

Customers will be allowed to search through the database; however, they should be logged in into the website before they try to perform any other function.

Admin/staff will be allowed to do any task they are charged if they are logged in to the system. They will be able to change/edit the book description, follow a user, approve a secondhand book sale, send discount message, cancel order, and block a user if it seems necessary. Admin/staff will also be able to check the database in case of need to check the book stocks.

3.2 Hardware Interfaces

There are no special hardware interface requirements.

3.3 Software Interfaces

The Online Bookstore system will use .NET Web API for connect the server. This is the most efficient and easy way to connect with server. System sends database some information which are book names, genres, author, pages, book ID and who is selling that book.

3.4 Communications Interfaces

The Online Bookstore system use HTTP for communicating with server and database. To create an account user should give an e-mail address and a password so system could save the user to its database. There is no encryption issues or security problem for this system.

4. System Features

4.1 System Feature 1

4.1.1 Description and Priority

Online Bookstore system is a system that users can buy and sell books from online. The main priority is that users can buy any book easily with an internet connection.

4.1.2 Stimulus/Response Sequences

Users will choose the book they want to buy and click to add to chart button to add the book into their chart. After that they go to their chart and click the buy button to buy the books in the chart.

4.1.3 Functional Requirements

REQ-1: Start-up

REQ-2: System will allow user to give e-mail and password.

REQ-3: System will log user to the online bookstore.

REQ-4: System will allow user to add the books to their chart.

REQ-5: System will allow user to buy the books in their chart.

4.2 System Feature 2

4.2.1 Description and Priority

The second priority is that users can sell and buy their secondhand books without any hesitation.

4.2.2 Stimulus/Response Sequences

Users can add photo, price, description of the book which they want to sell with clicking the add book button.

4.2.3 Functional Requirements

REQ-1: Start-up

REQ-2: System will allow user to give e-mail and password.

REQ-3: System will log user to the online bookstore.

REQ-4: System will allow user to add the book information with clicking the add book button.

REQ-5: System will allow user to post the book to secondhand store.

4.3 System Feature 3

4.3.1 Description and Priority

The administrator can control the secondhand information and change it if it needed. Administrators ensures safety.

4.3.2 Stimulus/Response Sequences

Administrators can look the book information's from info page and if it necessary they can change the content from change button.

4.3.3 Functional Requirements

REQ-1: Start-up

REQ-2: System will allow administrator to give e-mail and password.

REQ-3: System will log administrator to the online bookstore.

REQ-4: System will allow administrator to go to info page from clicking it.

REQ-5: System will allow administrator to change content from clicking the change button.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

- System should run basic operations (login, logout etc.) in less than 5 seconds.
- User interfaces should update quickly.
- The system should run quick and properly.
- The system should run properly on all browsers.

5.2 Safety Requirements

- User password should not be visible while typing.
- In case of user forgetting their password, new password must send only the mail address that user shared with the system while creating an account.
- The system should use a safe connection while using the user payment information.

5.3 Security Requirements

- The users of the system (admin/staff and customers) must have a nickname and a password to login into the system.
- The buyers cannot buy and sell any product without logging in first.
- The order cannot be confirmed if buyer's payment information is not complete or not valid.
- The order cannot be confirmed if the payment process is not completed.

5.4 Software Quality Attributes

a. Portability

- The website will be easily portable on any system with a modern web browser.

b. Maintainability

- The website will be designed to implement possible future upgrades easily. Methods in the code will include comments to describe what is the main purpose of that method to help developers to understand each other's work in the future.

c. Availability

- Unless there are unexpected system failures, the Online Bookstore will be available and reachable 24 hours a day and 7 days a week.

d. Usability

- The interfaces will be designed in a user-friendly way so users can access without needing any extra explanation while performing operations on website.

e. Reliability

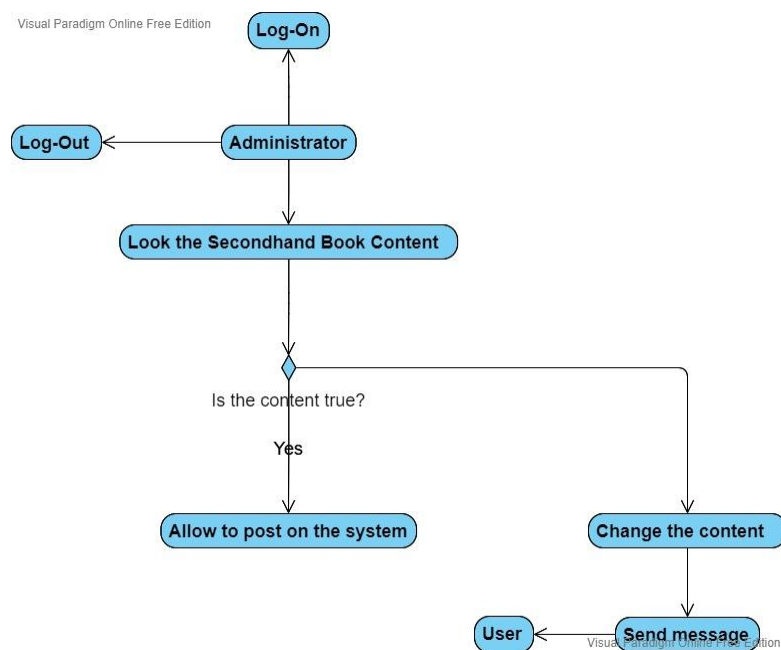
- The website will be available to the customers through the registration process and will have a fault tolerance in a high level.

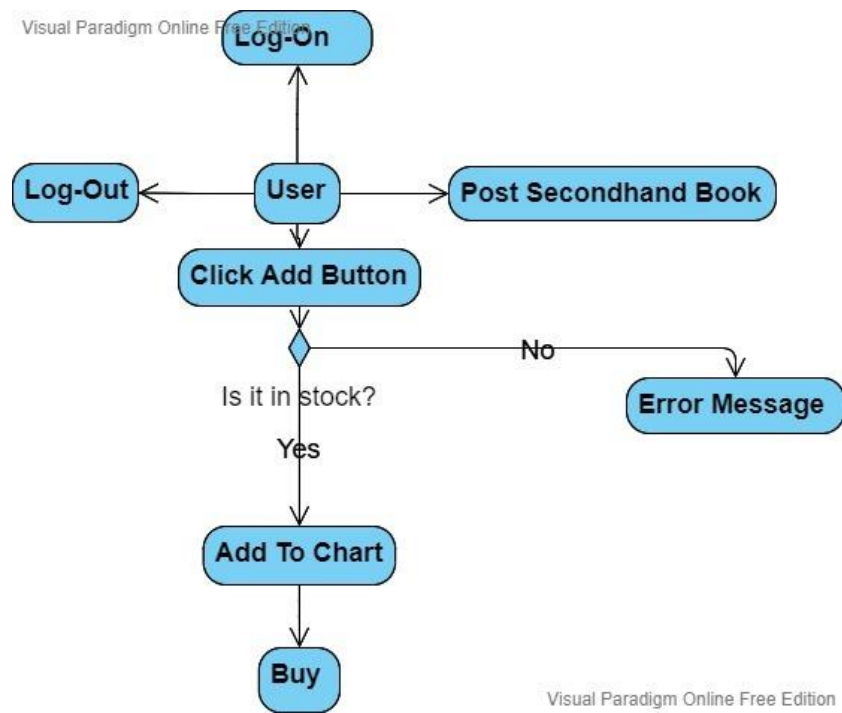
5.5 Business Rules

- All users need a valid email address.
- All users need valid payment information.
- The admin/staff cannot be a customer.
- The admin/staff cannot access the buyers' personal information.
- The admin/staff need to confirm the
- The admin/staff need to receive notifications in case of payment issues.

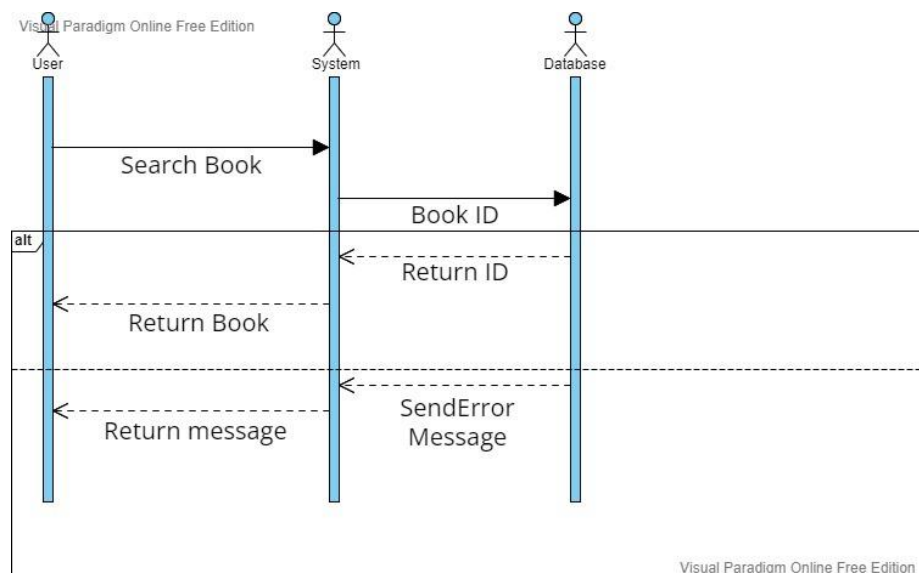
6. Diagrams

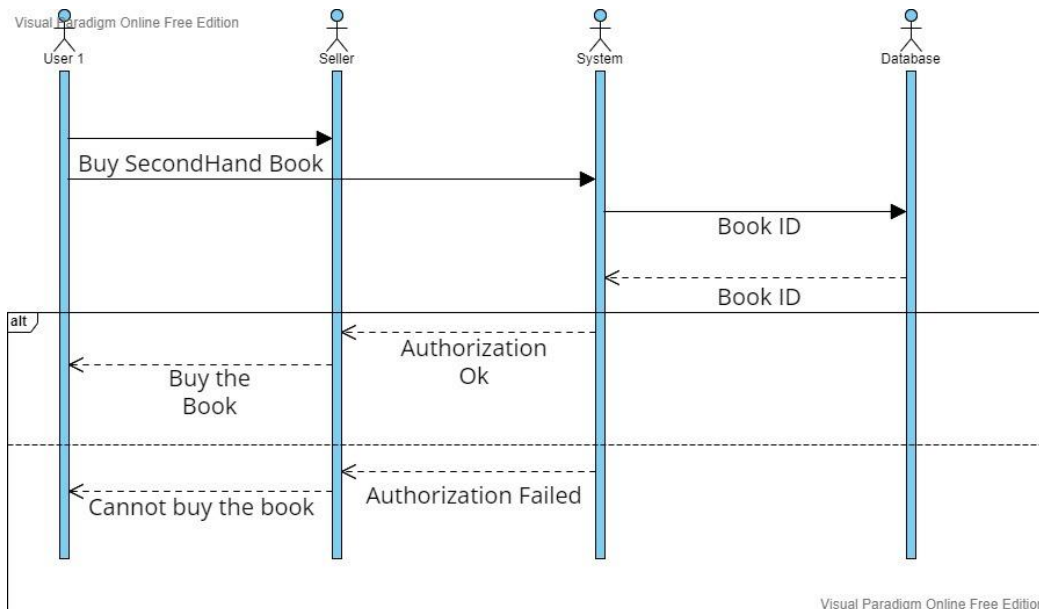
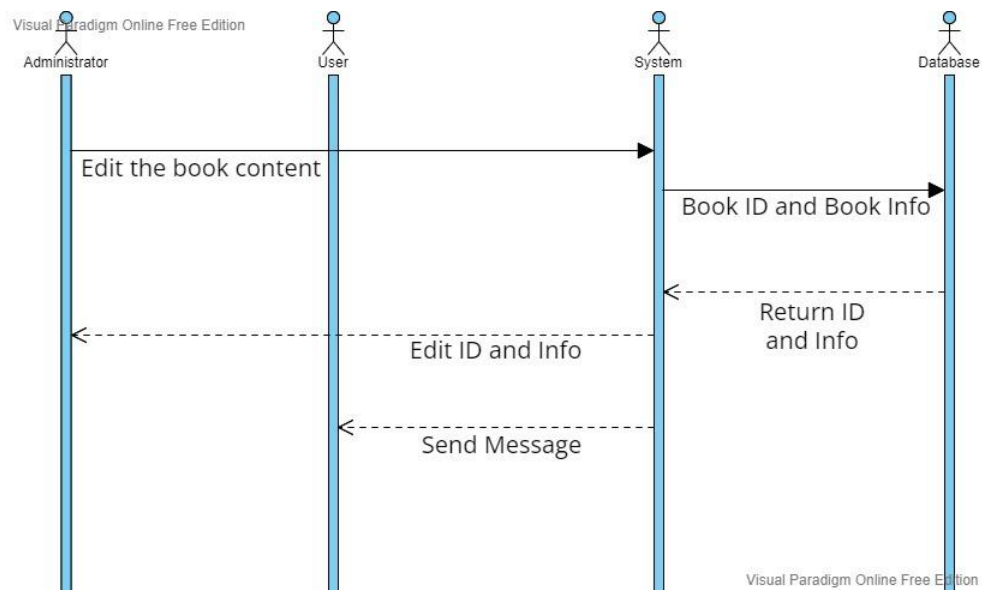
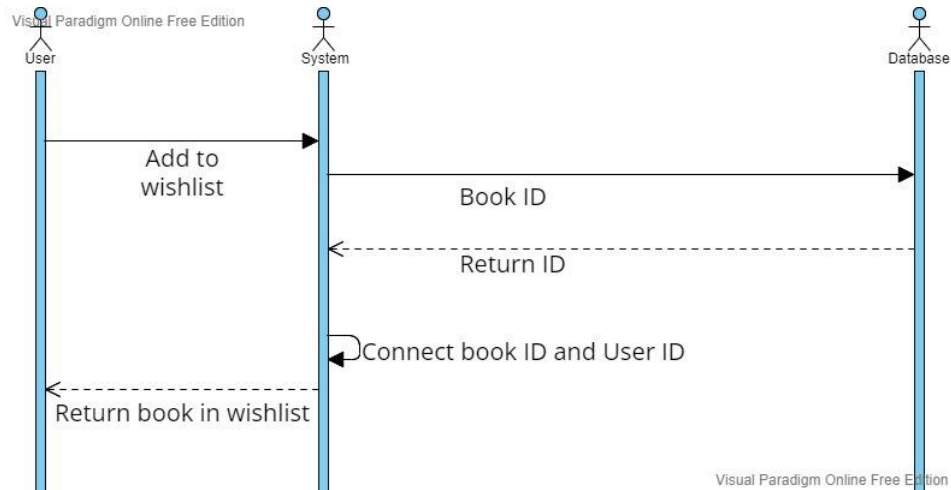
6.1 Activity Diagrams

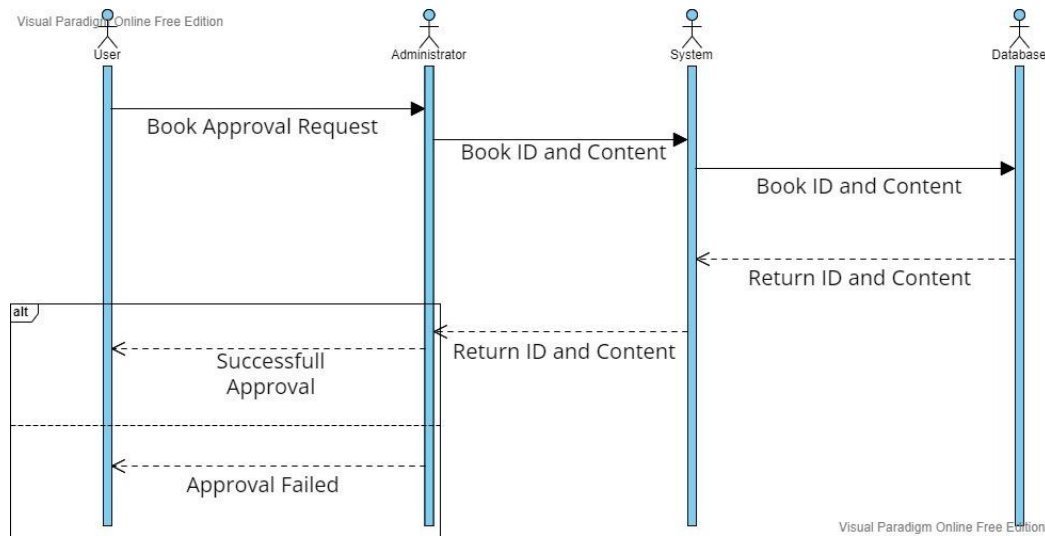




6.2 Sequence Diagrams







7. Other Requirements

Appendix A: Glossary

There is no data for here.

Appendix B: Analysis Models

We look similar bookstore and updated it as we wish.

Appendix C: To Be Determined List

We divided SRS into three parts, and we work on that separately, in the end we combine them to one.