

A Project Report

on

Online Book Store

Submitted in partial fulfillment of the requirement of Project – IV

(BCA278CO)

Of

Bachelor of Computer Application 4th Semester

Submitted to



Purbanchal University

Biratnagar, Nepal

Submitted By

Lenish Yesmali Magar (343300)

Puran Gupta(345158)

Manish Kumar Shrestha(343302)

KANTIPUR CITY COLLEGE

Putalisadak, Kathmandu

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Project Supervisor
Rubim Shrestha
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Aug 26, 2022

CERTIFICATE OF APPROVAL

This is to certify the project entitled “**Online Book Store**” is a project work Submitted by

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Manish Kumar Shrestha (343302)

In fulfillment for the degree of Bachelor in Computer Application

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Project Supervisor

Department of IT

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Department of IT

ACKNOWLEDGEMENT

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At last, but not least we owe a deep debt of gratitude to all those who helped me directly and indirectly and I would like to apologize if any names of helping had been not written. Without whom we would not have been successes in our project.

Abstract

The main objective of the project is to create an online book store that allows user to search and purchase a book online based on title, author and subject. The selected book is displayed in a tabular format and the user can order their books Using this Website the user can purchase a book online instead of going out to a book store and wasting time.

There are many on-line e book shops like Amazon which have been designed using Html. We develop similar website using HTML, CSS, JAVA script and PHP as front-end and MYSQL as a backend.

Online Book store is an online web application where the customer can purchase books online. Through a web browser the customers can search for a book by its title or author, later can add to the shopping cart and finally purchase using credit card transaction. The user can login using his account details or new customers can set up an account very quickly. They should give the details of their name, contact number and shipping address.

The Online Book Store Website provides customers with online shopping through a web browser. A customer can, create, sign in to his account, place items into a shopping cart and processed to check out.

The Administrator will have additional functionalities when compared to the common user. He can add, delete and update the book details, book categories, member information and also confirm a placed order.

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Chapter 1: INTRODUCTION

1.1 Background

An online book shop software program initiatives that act as a center database containing various book in inventory alongside with their title, writer and cost. This undertaking is a website that act as a center e book store. This web project is developed using HTML, CSS, JAVA script and PHP as a front end and SQL as a back-end. The SQL database store number of books related details. A user visiting the website can see the vast vary of books. The user may also pick out preferred books and view its price. The user can also search for particular books on the website. Once user select the book, he/she than has to fill the form and the book is booked for the user.

The software has following three main components:

1. Implement of new user to register and login
2. Implement user to choose any book.
3. Implement the user to buy book.

1.2 Purpose

For the project, we recommend to construct an online book shop for people. The online bookstore includes stories, study material, any course books like laptop be available to everyone. Many college students locate textbooks too steeply-priced to purchase at school bookstores and many publications solely use the required textbooks a few days in a semester This will become very wasteful and irritating for college students & others people. This on-line book place affords an answer to this. It will grant a service in which college students can purchase books on-line barring any treble. There will be free shipping. They do need to register with the web site in order to books. Payment information will be requested after including any numbers of books in the cart.

1.3 Objective

1. To provide service to distant area.
2. To save the time of user by providing book online.

1.4 Features

- a. A home page with product Catalog
- b. Search
- c. Shopping cart
- d. Admin login

a. A Home page with product catalog

This is the page where the user will be navigated after a successful login. it'll display all the book categories and will have a search keyword option to search for the required book. It also includes some special sections like latest product, featured product.

b. Search

A search by keyword option is provided to the user using a textbox. The keyword to be entered should be the book title or author name.

c. Shopping cart

The user can manage a shopping cart which will include all the books he/she selected. The user can edit, delete and update his shopping cart. A final shopping cart summary is displayed which includes all the items the user selected and the final total cost.

d. Admin login

The Administrator are going to be provided with special functionalities like

- Add or delete book
- Delete user
- Update book information

1.5 Assignment of roles and responsibilities

Symbol NO.	Members	Role
343300	Lenish Yesmali Magar	Coding, designing and Documentation
345158	Puran Gupta	Coding, designing and Documentation
343302	Manish Kumar Shrestha	Coding, designing and Documentation

Table 1.5.1 Assignment Role and responsibilities

1.6 Documentation Organization

Chapters	Heading	Content
Chapter 1	Introduction	1.1 Background 1.2 purpose 1.3 objective 1.4 features 1.5 Assignment role and responsibilities 1.6 Documentation Organization
Chapter 2	Existing System	2.1 Pilgrims Book House 2.2 Pairavi Prakashan
Chapter 3	System Analysis	3.1 Functional Requirement 3.2 Nonfunctional Requirement 3.3 Feasibility Study
Chapter 4	System Design	4.1 Er Diagram 4.2 Database Design 4.3 Activity Diagram 4.4 Data Flow diagram 4.5 Use case Diagram 4.6 Sequence diagram
Chapter 5	System Development and implementation	5.1 Programming platform 5.2 Operating environment 5.3 Testing plan

		5.4 Featured to be Tested 5.5 Testing Tool 5.6 Test Cases 5.7 Implementation
Chapter 6	Conclusion limitation and future Enhancement	6.1 Conclusion 6.2 Limitation 6.3 Future Enhancement

Table 1.6.1 Documentation Organization

Chapter 2: Existing System

2.1 Pilgrims Book House

Introduction

This book store has been in the Nepalese Market since 1984. The Specialty of this place is it provides some rare books which cannot be found in all of the Nepal. A part from providing several categories of book such as novels, comic books, graphic novel encyclopedia, dictionary, academic, journals, etc. the Pilgrims book house also sell maps, souvenirs, playing cards, small statues.

Pros

- Contain Nepali historical old books.
- Contain Audio Books.
- Contain Online payment method.
- International Shipping.

Cons

- Out dated user interface.
- Does not contain Search Filter.

2.2 Pairavi Prakashan

Introduction

This online book store sells books on categories such as an anthology, law, books for loksewa, comic books, children's books, dictionary, magazine, Vedic literature, Yoga, Vaastu Shastra, and several more books that you can find in their online site. The books that are sold on the site are mostly written by local Nepalese writers who are masters in their crafts

Pros

- Contains Books which are mostly written by local Nepalese writer.
- Contains Online payment method.

Cons

- Less books Categories.
- Out Dated User interface.

Chapter 3 System Analysis

3.1 Functional Requirement

No	Requirement	Functions
R1	Register	<ol style="list-style-type: none">1. The system shall allow non-registered user to create new account.2. The system shall require the following information form the user, Name, Gmail, Password, confirm password.3. The system shall confirm the username and password are accepted.4. The system shall store the user information to the database.
R2	Login	<ol style="list-style-type: none">1. The system shall allow registered user to login to their account.2. The system shall require a user name and password for the user.3. The system must verify the user's name and password.
R3	Search	<ol style="list-style-type: none">1. The system should allow user to search for books by title, author, book name, genre.
R4	Shopping cart	<ol style="list-style-type: none">1. The system should allow user to add book to cart.2. When viewing the shopping cart, the system shall display total price of the book.3. When viewing the shopping cart, the system shall allow user to modify the shopping cart, i.e., increase/decrease book quantity, remove book form cart.
R5	Check out	<ol style="list-style-type: none">1. The system shall allow registered user to purchase a book that are in there shopping cart.2. The system shall require the following information form the user, name, Gmail, phone no, country, city, zip code.

R6	Shipping Status	1. The system shall allow registered user to view there shipping status of their order.
R7	Logout	1. The system shall allow the registered and logged-in user to exit form his/her account.
R8	Dashboard	<ol style="list-style-type: none"> 1. The system shall allow admin to get access to dashboard. 2. When viewing the dashboard, the system shall display, total pending, complete payments, order placed, product added, users, admin user, total account and new message. 3. The system shall allow admin to add, remove or modify products. 4. The system shall allow admin to delete user. 5. The system shall allow admin to change order status of the user.

Table 3.1.1 Functional Requirement

Availability:

The bookstore should be available to user 24hr a day,7 days a week with the exception of being down for maintenance no more than 1 hour a week. If the system crashes it should be backup quickly.

Security:

User personal information is secured.

Easy to use:

Any person who has basic knowledge of system and web can use it.

3.3 Feasibility Study:

3.3.1. Technical Feasibility

We can strongly say that is technically feasible, since there will not be more difficulty in getting required resources for the development and maintaining the system as well. All the resources needed for the development of the software as well. All the resources needed for the development of the software as well as the maintenance of the same is available and we are utilizing the resources which are available already.

For design and development of the system, several software products have been accommodated. Database Design: MYSQL.

Coding: PHP, HTML, CSS, JavaScript.

Each of the technologies mentioned above are easily available. We have experience to use these technologies so it would be manageable to implement the project within the given time.

Therefore, the project is technically Feasible.

3.3.2. Operation Feasibility

Online book store will be GUI base web application. So that user will be able to easily understand the system and there will be no need for training. The system will help the user/customer to check the feature and price of the products by himself.

3.3.3. Economic Feasibility

Online Books store will be developed Microsoft Visual code and MySQL which are free to download. So, our project is economically feasible because the proposed system is very affordable. So, there is no issue related to development tools.

3.3.4. Legal & Ethical Feasibility

Our project does not violate any legality or any human rights. We own to develop online book store both legally and ethically. Data of public will be confidential. So, it is Legally and Ethical Feasible to complete this project.

3.3.5. Motivational Feasibility

Our team is highly motivated regarding this project and has very good problem-solving skill. Our project prompts to assign the task to every member of the group.

3.4 Schedule

3.4.1 Gantt Chart

Activates	May				June				July				August			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Communication																
Planning																
Design																
Development																
Testing																
Deployment																

Fig 3.4.1.1 Gantt chart

Chapter 4: System Design

4.1ER Diagram

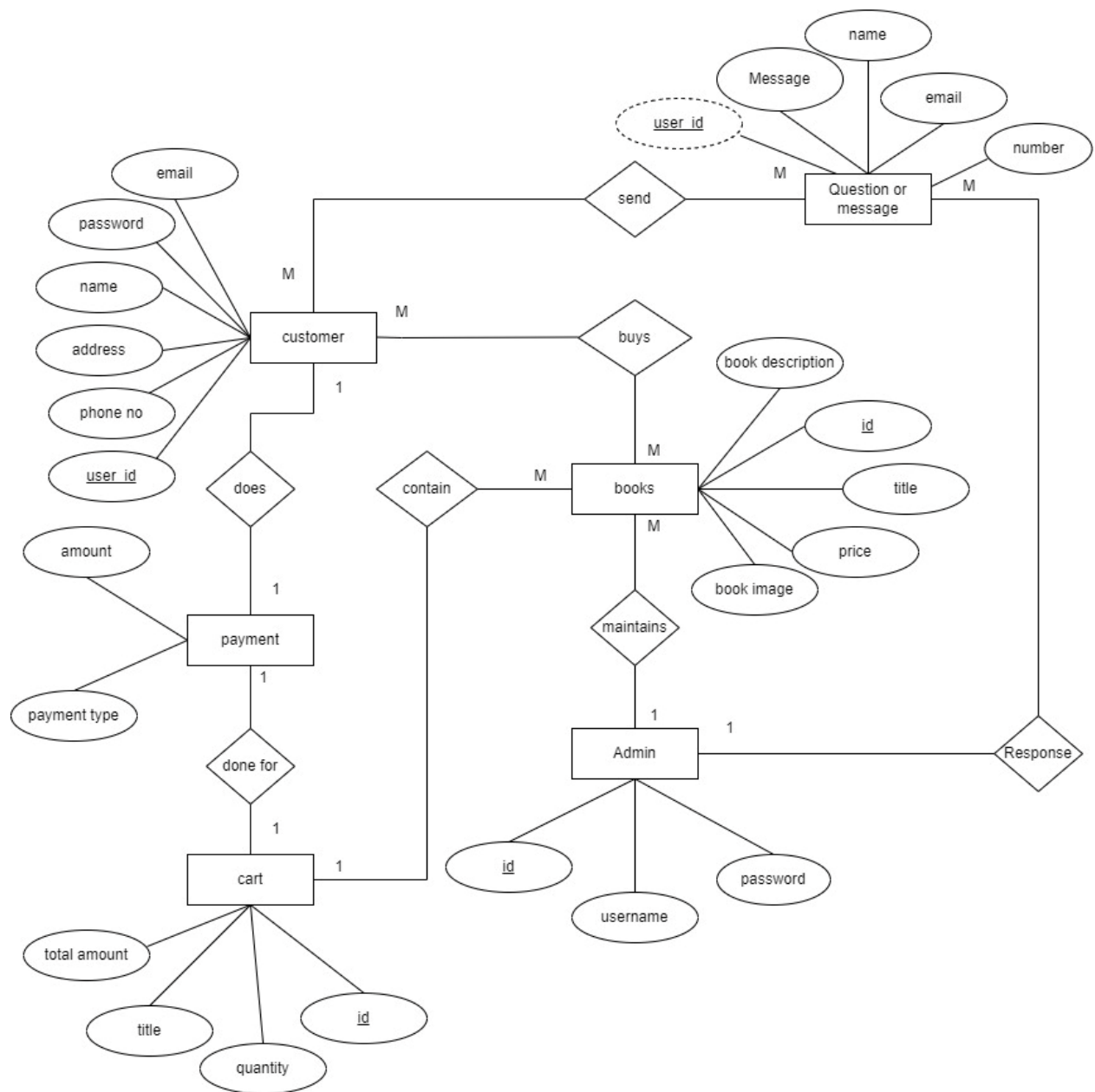


Fig 4.1.1 ER Diagram of online book store

4.2 Database Design

4.2.1 Database Tables

4.2.1.1. User table

Field Name	Data Type	Size	Allow Null	Extra	Constraint
User_id	Int	100	NO	Auto_Increment	PK
Name	Varchar	100	NO		
Email	Varchar	100	NO		
Password	Varchar	100	NO		
User_type	Varchar	20	NO		

Table 4.2.1.1.1 User table

4.2.1.2 Products

Field Name	Data Type	Size	Allow Null	Extra	Constraint
Id	Int	100	NO	Auto_Increment	PK
Name	Varchar	100	NO		
Price	BIGint	100	NO		
Image	Varchar	100	NO		
Product_desc	Varchar	500	NO		
Author	Varchar	40	NO		
Type	Varchar	50	NO		
Genres	Varchar	50	NO		

Table 4.2.1.2.1 Products table

4.2.1.3 Orders

Field Name	Data Type	Size	Allow Null	Extra	Constraint
Id	Int	100	NO	Auto_Increment	PK
User_id	Int	100	NO		
Name	Varchar	100	NO		
Email	Varchar	100	NO		
Method	Varchar	50	NO		
Address	Varchar	50	NO		
Total_products	varchar	1000	NO		
Total_Price	Int	100	NO		
Placed_on	Varchar	50	NO		
Payment_status	Varchar	20	NO		

Table 4.2.1.3.1 Order table

4.2.1.4 Message

Field Name	Data Type	Size	Allow Null	Extra	Constraint
Id	Int	100	NO	Auto_Increment	PK
User_Id	Int	100	NO		
Name	Varchar	100	NO		
Email	Varchar	100	NO		
Number	Varchar	20	NO		
Message	Varchar	500	NO		

Table 4.2.1.4.1 Message table

4.2.1.5 Cart

Field Name	Data Type	Size	Allow Null	Extra	Constraint
Id	Int	100	NO	Auto_Increment	PK
User_id	Int	100	NO		
Name	Varchar	100	NO		
Price	Int	100	NO		
Quantity	Int	100	NO		
Image	Varchar	100	NO		

Table 4.2.1.5.1 Cart

4.3 Activity Diagram

4.3.1 Activity Diagram for Admin module

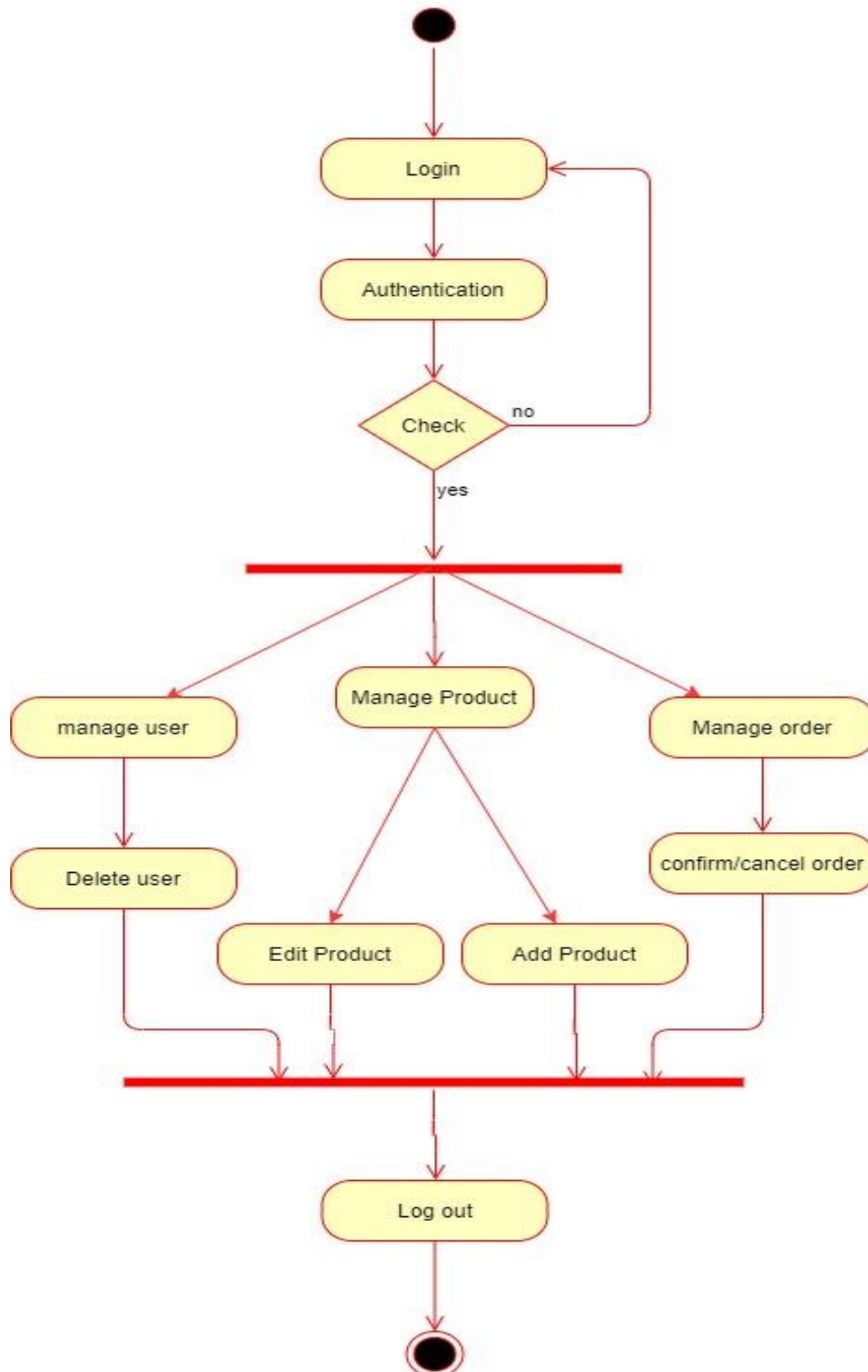


Fig 4.3.1.1 Activity Diagram for Admin module

4.3.2 Activity Diagram User side

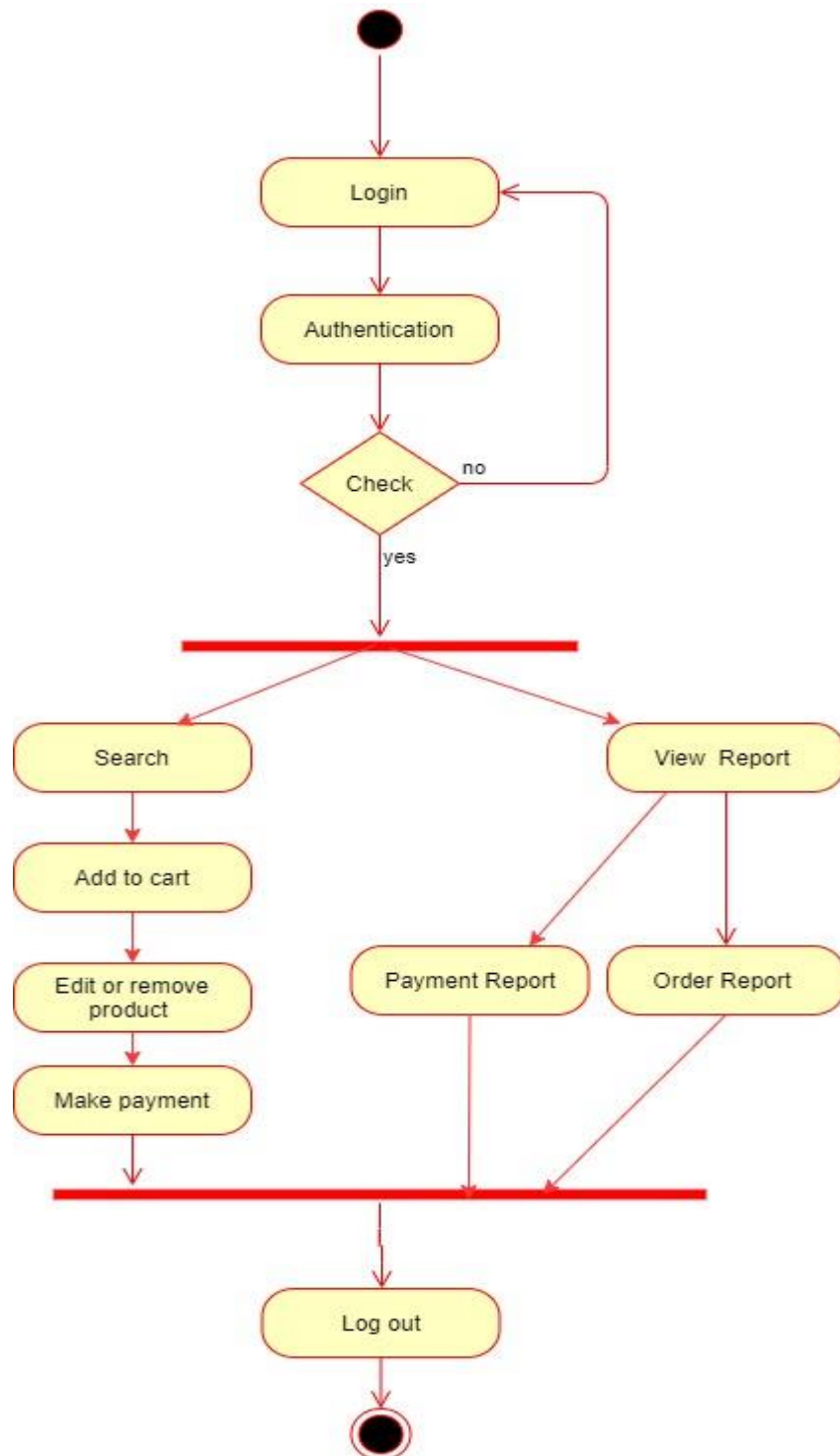


Fig 4.3.2.1 Activity Diagram User Module

4.3 Data Flow Diagram

4.3.1 Context Diagram

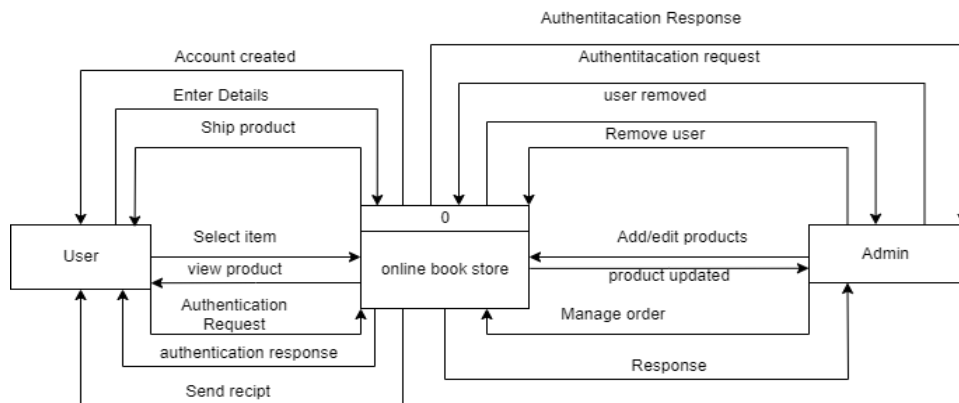


Fig 4.3.1.1 Context Diagram of online book store

4.3.2 First Level DFD

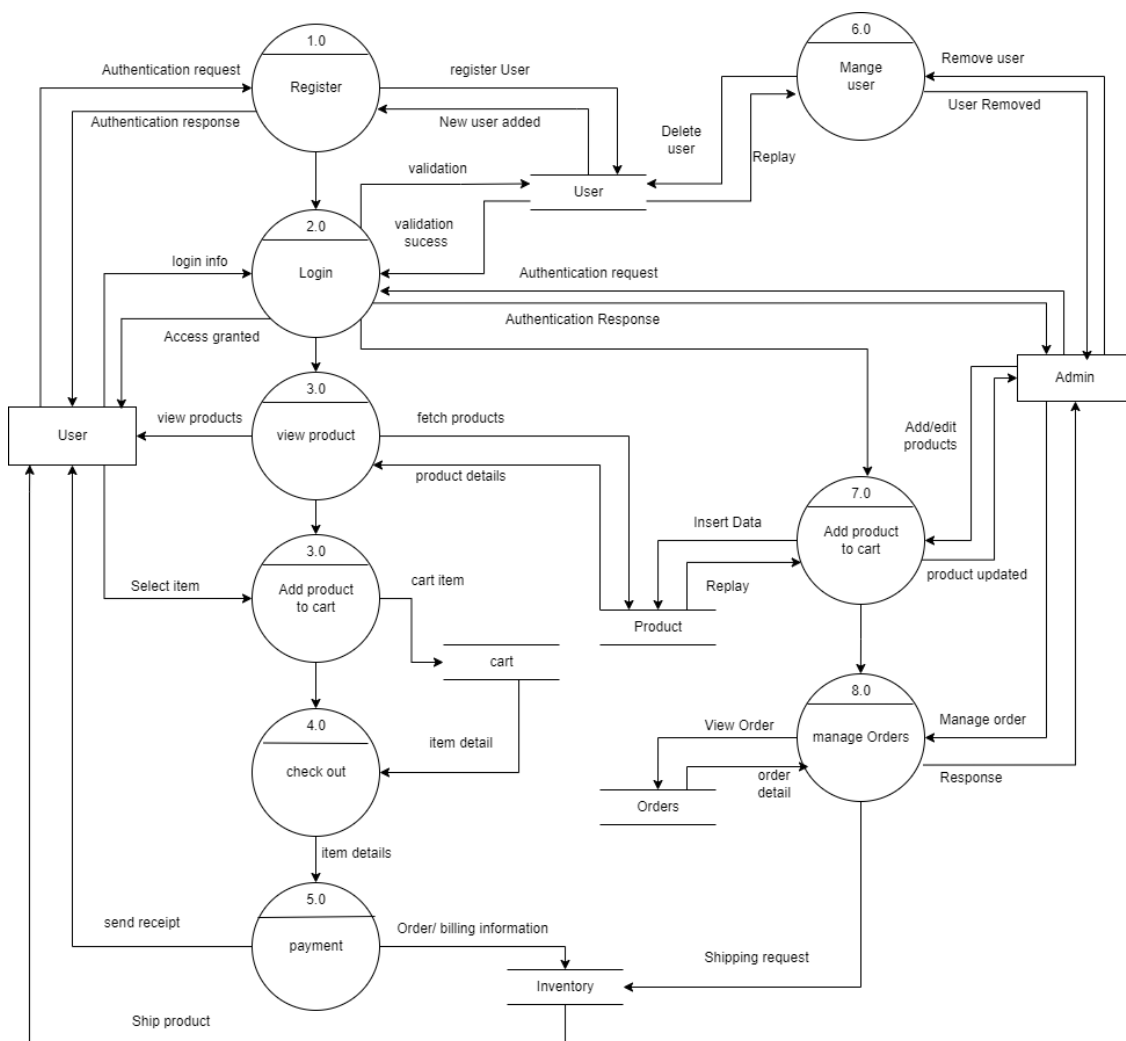


Fig 4.3.2.1 First Level DFD of online Book store

4.4 Use case Diagram

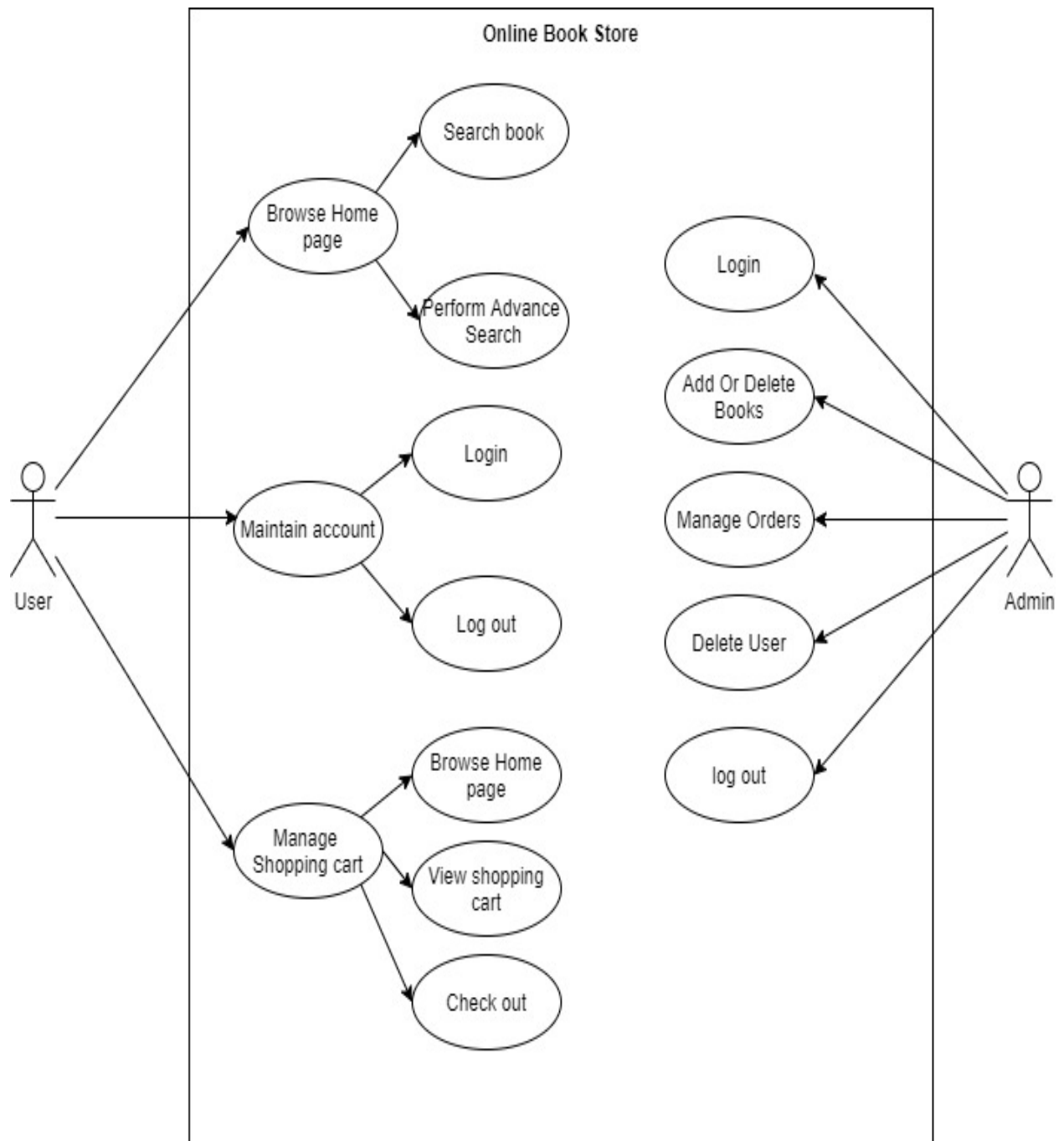


Fig 4.4.1 Use Case Diagram of online Book store

4.5 Sequence Diagram

4.5.1 User login

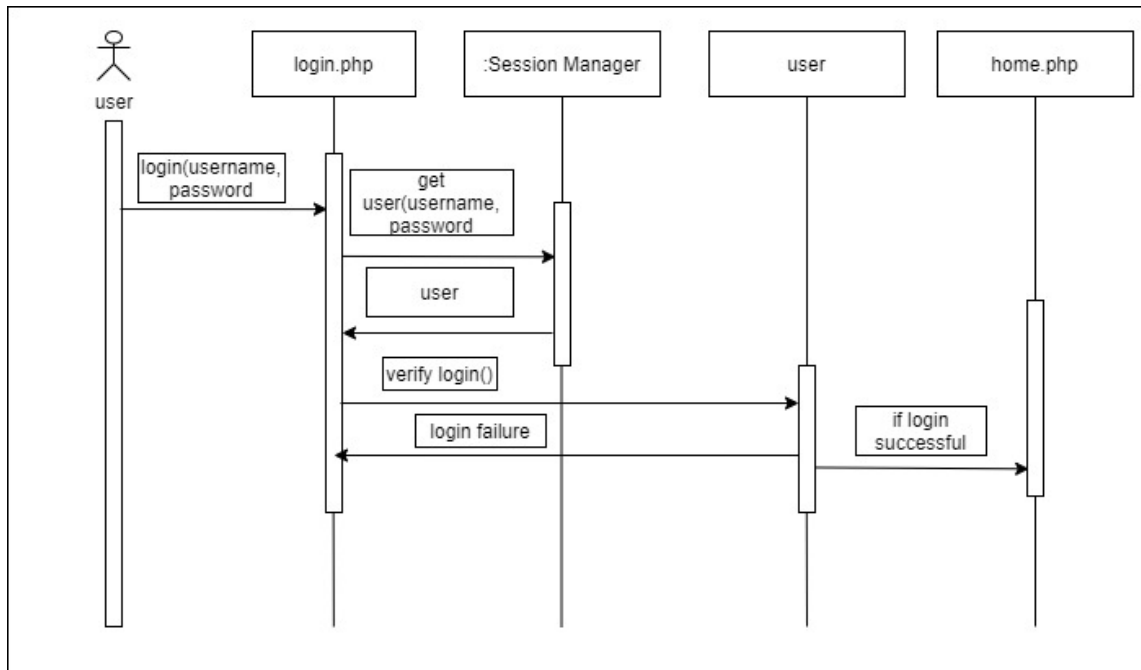


Fig 4.5.1.1 sequence Diagram of user Login

4.5.2 Book Search

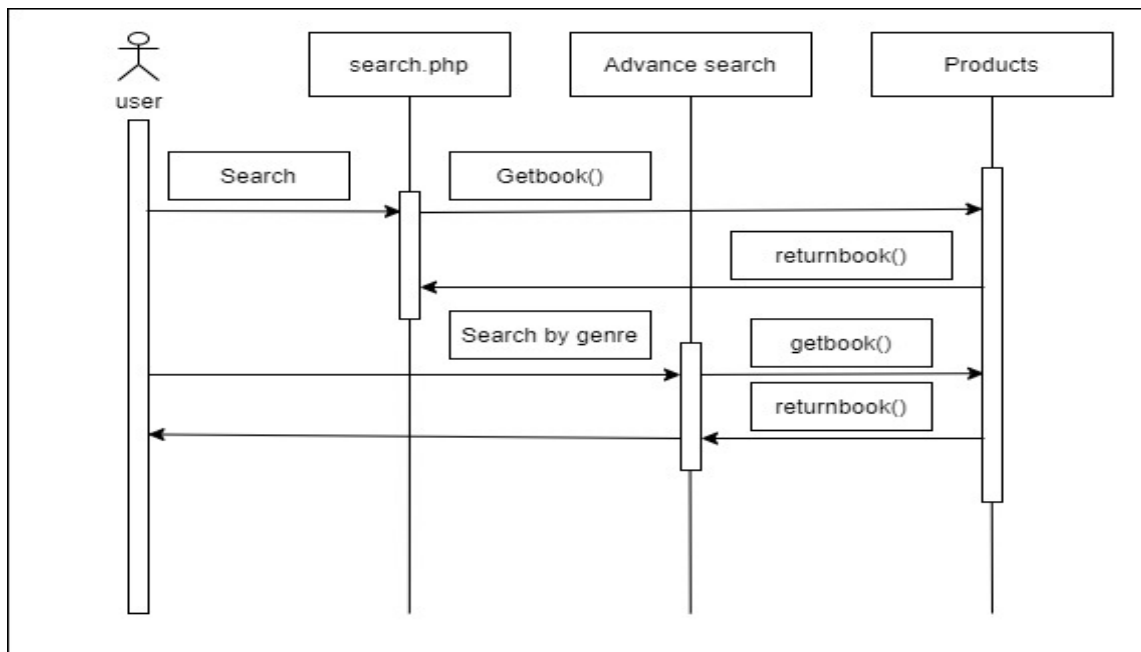


Fig 4.5.2.1 Sequence Diagram of book search

4.5.3 Add to shopping cart

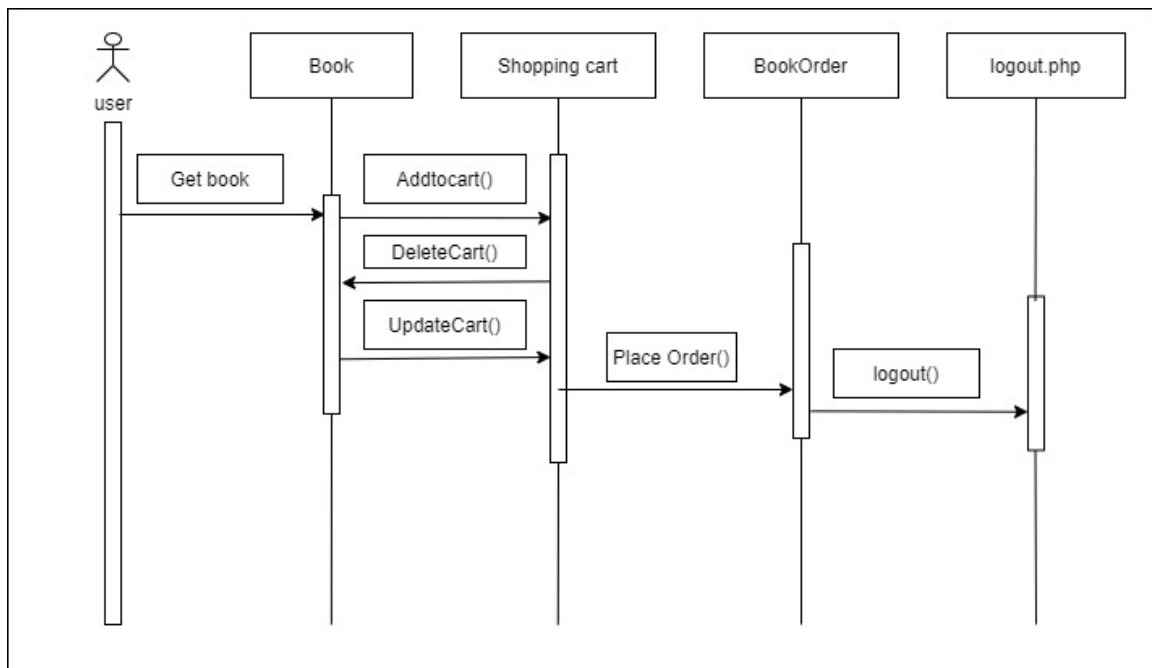


Fig 4.5.3.1 Sequence diagram of Add to Shopping cart

4.5.4 Admin

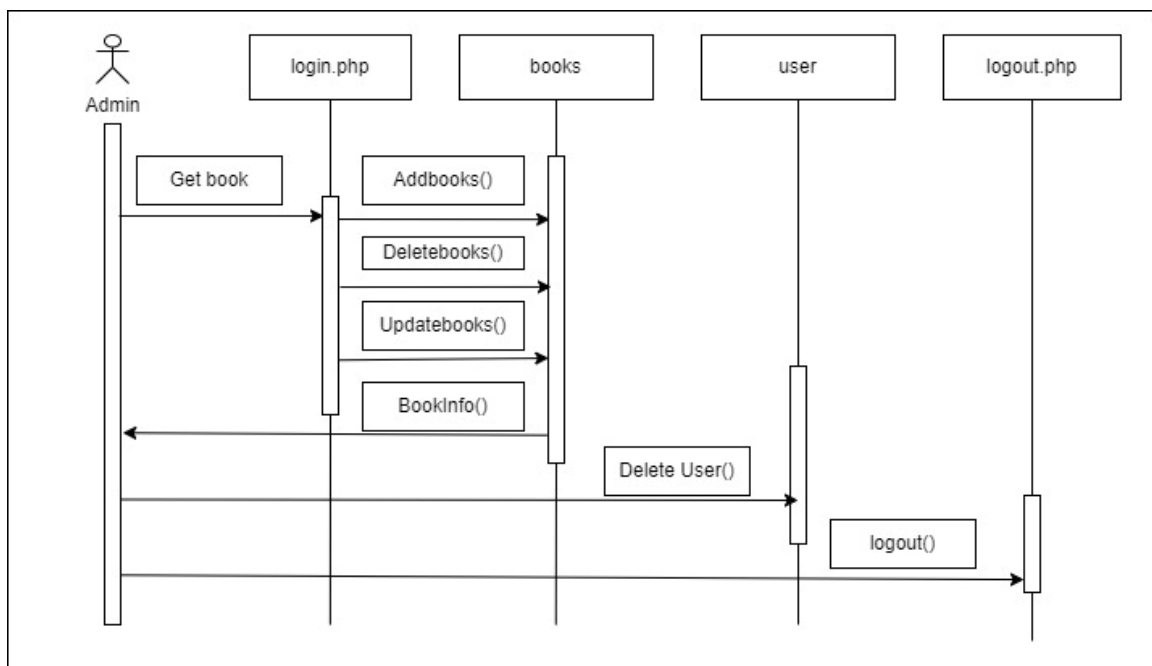


Fig 4.5.4.1 Sequence Diagram of Admin

Chapter 5: System Development and Implementation

5.1 Programming Platform

This website is developed by using visual code tool and HTML, CSS, JAVA, PHP as a front end and MySQL database as a backend. We have used HTML, CSS, JAVA to design interface for our website and used PHP to connect with MySQL database. We have used MySQL database to store all the information related to Online Book Store.

This whole project is divided in to two modules.

- User module
- Admin module

5.2 Operating Environment

5.2.1 Software and Hardware requirement

5.2.1.1 Client Side

Software requirement

- Chrome or any web browser application.

5.2.1.2 Server side

Software Requirement

- Visual studio code.
- MySQL Database.

Hardware Requirement

- Inter Core i5 8th generation.
- Window 10 operating system.

5.2 Testing plan

Since there are lots of interconnected components the team thoroughly tested the site to ensure that there is no problem. In addition to that website was tested on different size device as well as to ensure reactive nature of the website.

5.3 Featured to be tested

The following list describes the feature to be tested:

USER:

- Registration
- Login
- Add to card
- Edit cart

ADMIN:

- Add or delete book
- Update book
- Manage order
- Manage users

5.5 Testing tool

Testing was done manually to ensure there was proper co-ordination between the team members and was done by using GitHub. GitHub allowed for proper communication and provided with the progress of fellow team member to be noted, and also allowed for proper integration of the software.

5.6 Test Cases

5.6.1 User

Registration

ID	TEST CASE	USER INPUT	PASS CRITERIA
U_REG_1	User Registration	User enters different password in password confirm field.	Confirm Password Not Matched!
U_REG_2	User Registration	User forgets to enter a particular required field.	Display message the value in field is required.
U_REG_2	User Registration	User enters all the details Successfully.	User account created.

Table 5.6.1.1 Test case of user Registrations

Login

ID	TEST CASE	USER INPUT	PASS CRITERIA
U_LOG_1	User Login	User enters a wrong username	Display message Login or Password is incorrect.
U_LOG_2	User Login	User enters a wrong password	Display message Login or Password is incorrect.
U_LOG_3	User Login	User enters correct username and password	User logs in successfully

Table 5.6.1.2 Test case of user login

Add to Cart

ID	TEST CASE	USER INPUT	PASS CRITERIA
U_AC_1	Add to Cart	User selects a book and clicks add to cart button	Book is added to the shopping cart
U_AC_2	Add to Cart	Guest selects a book and clicks add to cart button	User should create an account.

Table 5.6.1.3 Test case of Add to cart

Edit Cart

ID	TEST CASE	USER INPUT	PASS CRITERIA
U_EC_1	Edit Cart	User changes the Quantity	Quantity and total cost of Cart should be updated.
U_EC_2	Edit Cart	User deletes a book from shopping Cart	Books and total cost of Cart should be updated
U_EC_3	Edit Cart	User selects a new book to shopping Cart	Books and total cost of Cart should be updated

Table 5.6.1.4 Test case of Edit cart

5.6.2 ADMIN

Add and delete book

ID	TEST CASE	USER INPUT	PASS CRITERIA
A_AD_1	Add and delete book	Admin adds a new book	Books should be updated in product list.
A_AD_2	Add and delete book	Admin deletes book	Books should be deleted from product list

Table 5.6.2.1 Test case of Admin add and delete book

Update book

ID	TEST CASE	USER INPUT	PASS CRITERIA
A_AD_1	Update book	Admin update book	Books should be updated in product list.

Table 5.6.2.2 Test case of admin update book

Manage Order

ID	TEST CASE	USER INPUT	PASS CRITERIA
A_MO_1	Manage Order	Admin change the state of order.	Order is completed

Table 5.6.2.3 Test case of Admin manage order

Manage Users

ID	TEST CASE	USER INPUT	PASS CRITERIA
A_MU_1	Manage User	Admin Deletes user	User account is deleted

Table 5.6.2.4 Test case of Admin manage user

5.7 Implementation

After multiple iterations with all the bugs eradicated finally the following windows was created.

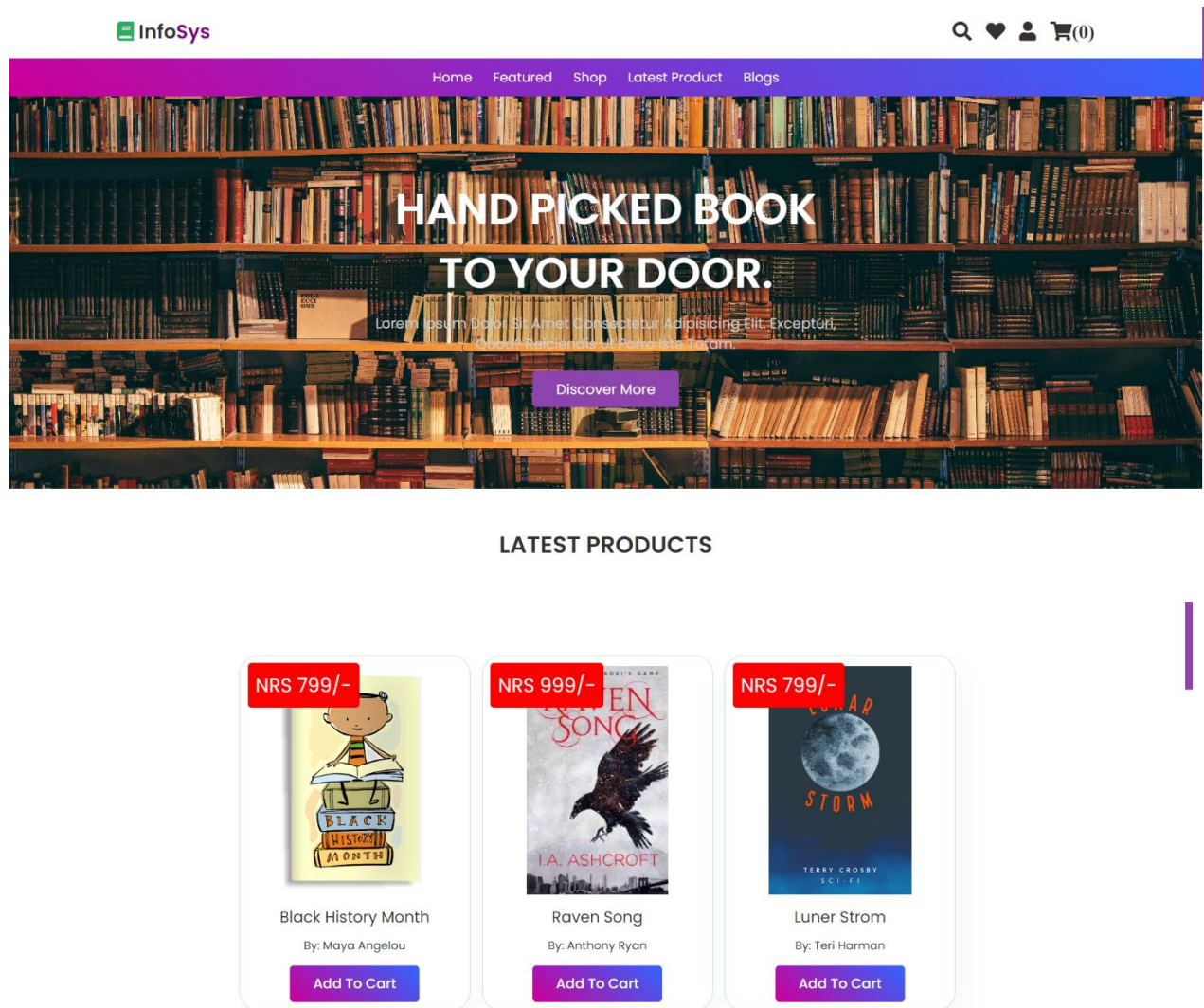


Fig 5.7.1 User Interface Design of online book store

Chapter 6: Conclusion limitation and future Enhancement

6.1 Conclusion

Online book store is an online web application where the customer can purchase the book online. Through a web browser the customer can search book by its title, author or genres later can add to the shopping cart and finally purchase the book.

6.2 Limitation

- No online payment method.
- No hosting server.

6.3 Future enhancement

- Accept online payment method.
- Live server.

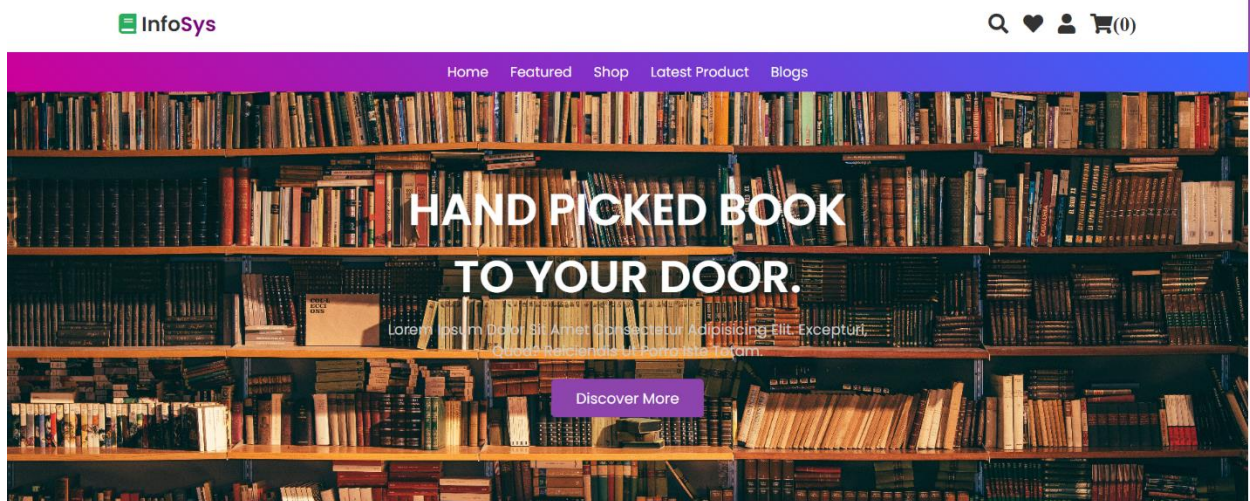
References

Raman, R. &. (2013). Website development life cycle guidelines. 95-100

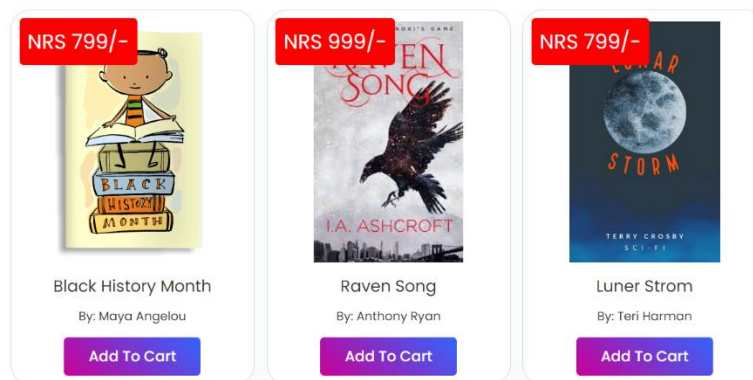
Kirkpatrick, Andrew et al. Web Accessibility: Web Standards and Regulatory Compliance, friends of ED, 2006..

Appendices


Home Page







LATEST PRODUCTS




Single Product Detail





HomeFeaturedShopLatest ProductBlogs




Home/Feature

Raven Song
NRP 999/-
[Add To Cart](#)

Product Details

The Raven Has Long Been Companion To Man In Myth. Harbinger Of Prophecy, Symbol Of Wisdom, The Keeper Of Ancestral Memories And In Many Cultures, The Messenger Between The Divine And Mortal Realms. A Favourite Of Both The Ancient Greek God Apollo And The Norse God Odin It Flew Between Worlds, Conspiring With The Universe And All The Magic It Holds.

Dashboard

AdminPanelhomeproductsFeatuedProductordersusersmessages

DASHBOARD

Rs 8797/- total pendings	Rs 1798/- completed payments	2 order placed	17 products added
7 normal users	1 admin users	8 total accounts	0 new messages