

BOOK SHARING PORTAL

A Project Report

Submitted by

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in partial fulfilment for the award of the degree

of

Third Year B.Tech (Computer Engineering)

Under the guidance of

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INFORMATION TECHNOLOGY,
COEP Technological University**

April, 2024

CERTIFICATE

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Project Guide

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Abstract

"Book Sharing Portal" is an innovative online platform designed to revolutionize the way individuals engage with literature, fostering a dynamic ecosystem for buying, selling, renting, and donating both new and second-hand books. At its core, the portal serves as a centralized hub where users can seamlessly interact with a diverse range of literary works while administrators maintain oversight and facilitate philanthropic initiatives. Administrators wield essential functionalities, including the addition and curation of e-books within the platform's inventory, management of user profiles to ensure seamless interactions, generation of insightful statistical analyses to monitor platform performance, and coordination of book donation efforts with partnering non-profit organizations (NGOs). Users are empowered to list both new and second-hand books for sale or rent, purchase desired books, receive e-mail notification, download payment receipts for their purchases, and contribute to charitable causes through book donations.

The "Book Sharing Portal" distinguishes itself through its user-centric design, incorporating intuitive navigation features, robust security protocols to safeguard user data, advanced search and filtering mechanisms for efficient book discovery. Moreover, the platform prioritizes transparency and accountability through comprehensive reporting tools, enabling administrators to optimize inventory management, user engagement strategies, and philanthropic endeavors. By fostering a vibrant community centered around literature exchange and altruism, the "Book Sharing Portal" aims to redefine the online book commerce landscape, promoting accessibility, inclusivity, and a culture of giving within the global literary community.

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1 Synopsis

1.0.1 Project Title

BOOK SHARING PORTAL

1.0.2 Internal Guide

Dr. Tanuja Pattanshetty

1.0.3 Problem Statement

In the realm of literature, accessibility to books plays a crucial role in fostering a culture of reading and intellectual exchange. However, the traditional avenues for acquiring books, particularly second-hand titles, often lack efficiency and accessibility, leading to missed opportunities for individuals to access affordable literature and contribute to sustainable book circulation practices. Despite the growing demand for second-hand books, there exists a significant gap in the availability of centralized platforms that cater to the unique needs of buyers and sellers in this niche market.

Existing online platforms for book commerce predominantly focus on new releases, overlooking the thriving market for second-hand books and limiting the options available to readers seeking affordable alternatives. Furthermore, the lack of dedicated platforms for second-hand book transactions results in fragmented experiences, making it challenging for buyers to discover and purchase pre-owned titles while impeding sellers' efforts to

reach a wider audience and maximize their book sales. Additionally, concerns surrounding trust, authenticity, and quality often deter individuals from engaging in second-hand book transactions through online channels, further exacerbating the accessibility gap in the market.

Therefore, there is an urgent need to develop a comprehensive and user-centric online platform, the "Book Sharing Portal," that caters to the specific requirements of buyers and sellers of second-hand as well as new books. This platform aims to bridge the gap between supply and demand for pre-owned titles by providing a centralized marketplace where users can seamlessly buy, sell, rent, and donate new as well as second-hand books. By addressing the challenges associated with second-hand book transactions, such as trust, authenticity, and discoverability, the "Book Sharing Portal" seeks to promote accessibility, affordability, and sustainability in the literary ecosystem, empowering individuals to embrace the joy of reading while contributing to the circulation of literature in a cost-effective and environmentally conscious manner.

2 Project Definition

The Book Sharing Portal is a versatile platform simplifying book transactions and fostering community engagement. Users can buy, sell, rent, and donate books easily. Administrators manage the platform, overseeing e-book additions and donation initiatives. The project promotes accessibility, affordability, and community empowerment, leveraging technology to promote reading and societal impact.

2.0.1 Goals

- Promote Accessibility: Create a platform that offers easy access to a wide range of books, including both new releases and second-hand titles, fostering a culture of reading and knowledge dissemination.
- Facilitate Transactions: Enable users to seamlessly buy, sell, rent, and donate books, providing a convenient and efficient platform for book-related transactions.
- Encourage Community Engagement: Cultivate a vibrant community of book enthusiasts by fostering interactions, discussions, and collaborations centered around literature, thereby enriching the reading experience for users.
- Support Philanthropic Initiatives: Provide users with opportunities to contribute to charitable causes through book donations, facilitating partnerships with non-profit organizations to promote literacy and education.

- Ensure User Satisfaction: Prioritize user experience by designing an intuitive and user-friendly interface, implementing robust security measures to protect user data, and offering responsive customer support services.
- Optimize Platform Performance: Implement administrative tools for efficient management, user profile administration, and statistical analysis, enabling administrators to monitor platform performance and make data-driven decisions.
- Promote Sustainability: Encourage sustainable practices within the literary community by facilitating the buying, selling, and renting of second-hand books, thereby promoting the reuse and circulation of literature while minimizing environmental impact.
- Drive Growth and Expansion: Continuously innovate and evolve the platform to adapt to changing user needs and technological advancements, driving growth and expansion while maintaining the platform's core values and objectives.

2.0.2 Project Plan

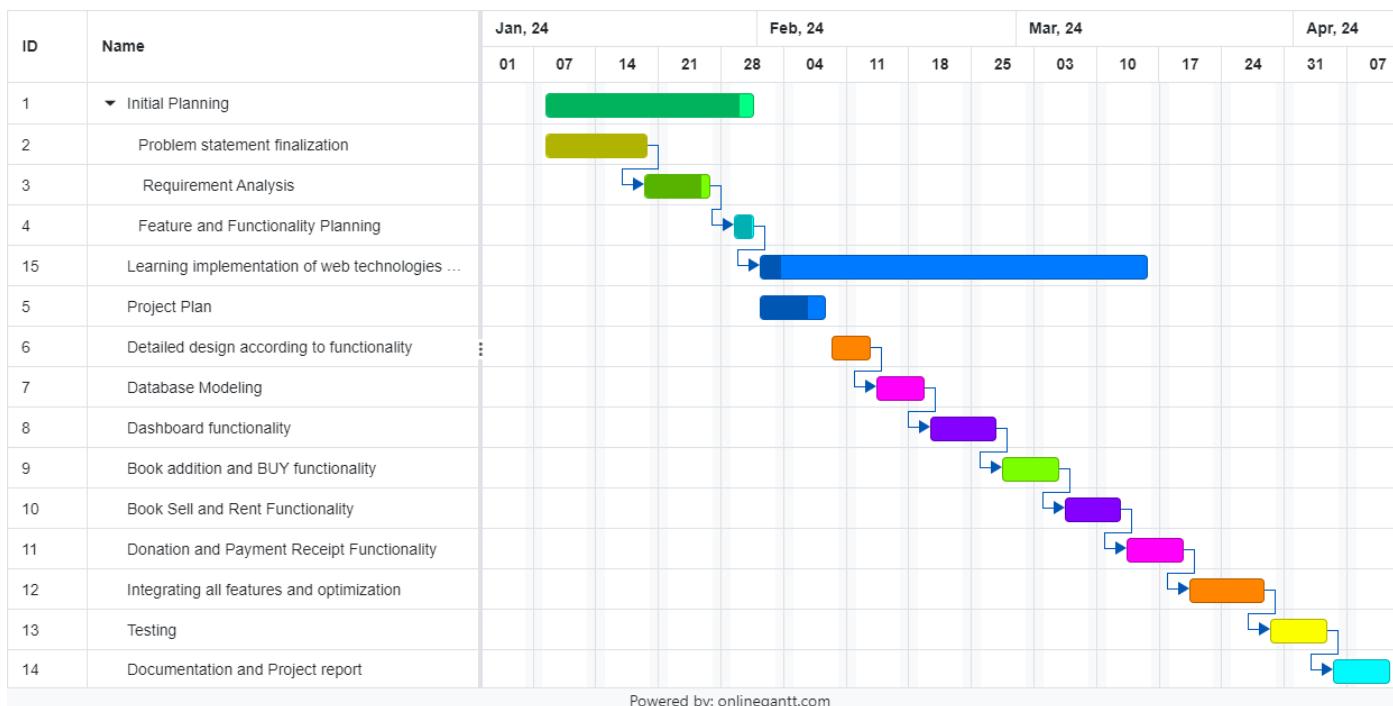


Figure 2.1: PROJECT PLAN

3 Software Requirements Specification

3.1 Introduction

The Software Requirements Specification (SRS) for the Book Sharing Portal serves as a comprehensive guide outlining the requirements and specifications for the development of a web-based platform dedicated to facilitating the sharing and exchange of books among users. This foundational document defines the core functionalities, user interactions, and administrative capabilities of the portal, ensuring a clear roadmap for the development, implementation, and evaluation phases. With a focus on enhancing accessibility, usability, and security, the SRS lays the groundwork for creating a user-centric platform that empowers individuals to buy, sell, rent, and donate books, while providing administrators with tools to manage e-books, user accounts, and book donations to NGOs.

3.1.1 Purpose

The purpose of the Software Requirements Specification (SRS) for the Book Sharing Portal is to provide a comprehensive understanding of the system's requirements and specifications. This document serves as a guiding framework for the development team, stakeholders, and other parties involved in the project, outlining the scope, objectives, and constraints of the proposed web-based application.

By defining the purpose of the Book Sharing Portal, the SRS ensures alignment with

stakeholder expectations and facilitates the successful execution of the project. It aims to create a robust and user-friendly platform that revolutionizes the way users interact with books, enabling functionalities such as buying, selling, renting and donating books.

3.1.2 Scope

The scope of the Book Sharing Portal encompasses various aspects of its development, deployment, and maintenance, aiming to provide a seamless experience for users engaging in book-related activities. This includes:

Functionality: The portal will offer a diverse range of functionalities to cater to users' needs for buying, selling, renting and donating books. Additionally, it may include features for browsing book listings, managing transactions, and accessing educational resources.

User Interaction: The portal will facilitate user interaction through intuitive interfaces, allowing users to search for books, list their own books for sale and communicate with other users.

Data Handling: The portal will handle various types of data, including book listings, user profiles and communication logs. It will ensure the security, privacy, and integrity of this data through robust data handling protocols and security measures. .

Scalability: The portal will be designed to accommodate a growing user base and scale to meet increasing demand over time. This may involve implementing scalable architecture, optimizing database performance, and load balancing strategies.

Maintenance: The portal will require ongoing maintenance to ensure continued functionality, security, and user satisfaction. This may include regular updates, bug fixes, and enhancements based on user feedback and technological advancements.

Overall, the scope of the Book Sharing Portal is to provide a user-friendly and efficient

platform that facilitates book sharing and exchange among users, while also promoting literacy initiatives and community engagement.

3.1.3 Definitions, Acronyms, and Abbreviations

Term	Definition
HTML	HTML is the standard markup language for Web pages. With HTML you can create your own Website.
CSS	CSS is the language we use to style an HTML document. CSS describes how HTML elements should be displayed.
PHP	PHP is a server scripting language, and a powerful tool for making dynamic and interactive Web pages.
MySQL	An open-source relational database management system.

3.2 Overall Description

The Book Sharing Portal aims to address the need for a centralized platform where users can seamlessly exchange and share books, thereby fostering a culture of reading, accessibility, and community engagement. This web-based application endeavors to provide users with a diverse range of functionalities, including buying, selling, renting, and donating books, catering to the needs of book enthusiasts, students, educators, and bibliophiles alike.

With the Book Sharing Portal, users will have access to an extensive collection of books across various genres, enabling them to explore new literary works and connect with fellow book lovers. By facilitating transactions and interactions between users, the portal aims to promote accessibility to literature, reduce financial barriers to book ownership, and encourage sustainable practices through book sharing and donation initiatives.

Stakeholders involved in this initiative include book enthusiasts, students, educators, administrators, and NGOs dedicated to promoting literacy and education. The primary objective of the Book Sharing Portal is to create a user-centric platform that empowers individuals to buy, sell, rent and donate books with ease, while also fostering a sense of community and collaboration among users.

The forthcoming Software Requirements Specification (SRS) will provide a comprehensive overview of the portal's functionalities, user interactions, data handling mechanisms, and integration requirements. It will outline the scope, objectives, and constraints of the project, taking into account the needs and preferences of diverse stakeholders. By delineating the requirements and specifications of the Book Sharing Portal, the SRS will serve as a roadmap for the development team, ensuring alignment with stakeholder expectations and facilitating the successful execution of the project.

3.3 Specific Requirements

Software Requirements

- Web Server: You can use Apache as your web server to host your PHP application.
- Database Management System (DBMS): MySQL is a suitable choice for storing data related to users, books, orders, etc. Make sure to install and configure MySQL server on your system.
- PHP: Install PHP on your server to write server-side logic for your application. You can use the latest version of PHP along with necessary extensions for MySQL database connectivity.
- Text Editor or IDE: Choose a text editor or IDE for coding PHP and CSS. Popular options include Visual Studio Code, Sublime Text, or PhpStorm.

- CSS Frameworks: Utilize CSS frameworks like Bootstrap or Foundation to streamline the styling process and ensure a responsive design for your web application.
- Version Control System: Use Git for version control to manage your project's source code and collaborate with team members effectively. Platforms like GitHub or Bitbucket can host your repositories.
- Dependency Management: PHP projects can use Composer for dependency management. You can use Composer to install PHP libraries and manage project dependencies efficiently.
- Image Storage: Determine how you'll store and serve book images. You can upload images to your server and store their paths in the database or use cloud storage solutions like Amazon S3 or Google Cloud Storage.
- Email Service: Set up an SMTP server or use a transactional email service like Amazon SES or SendGrid to send email notifications to users for actions like account registration, order confirmation, etc.
- Security Measures: Implement security measures such as input validation, SQL injection prevention, and user authentication to protect user data and prevent unauthorized access to your application.
- Deployment Environment: Choose a hosting provider to deploy your application. You can opt for shared hosting, VPS hosting, or cloud hosting services like AWS, Google Cloud Platform.

3.4 Hardware Requirements

- Server: You'll need a server to host your web application. The server can be physical hardware or a virtual machine (VM) hosted on a cloud platform. The server should meet the following minimum requirements:

Processor: Dual-core or higher processor with sufficient processing power to handle web requests and database operations efficiently.

RAM: At least 2GB of RAM is recommended, although the actual requirement may vary depending on the size and traffic of your application.

Storage: Adequate storage space to store the application files, database, and any uploaded content like book images. A minimum of 20GB of disk space is typically sufficient for a small to medium-sized application.

Network: A stable internet connection with sufficient bandwidth to handle incoming and outgoing traffic to the web server.

- Database Server: Since you're using MySQL as the database management system, you'll need a separate server to host the MySQL database. Alternatively, you can use the same server for both the web server and the database server if the traffic and resource requirements are low.

3.5 Entity Relationship Diagram

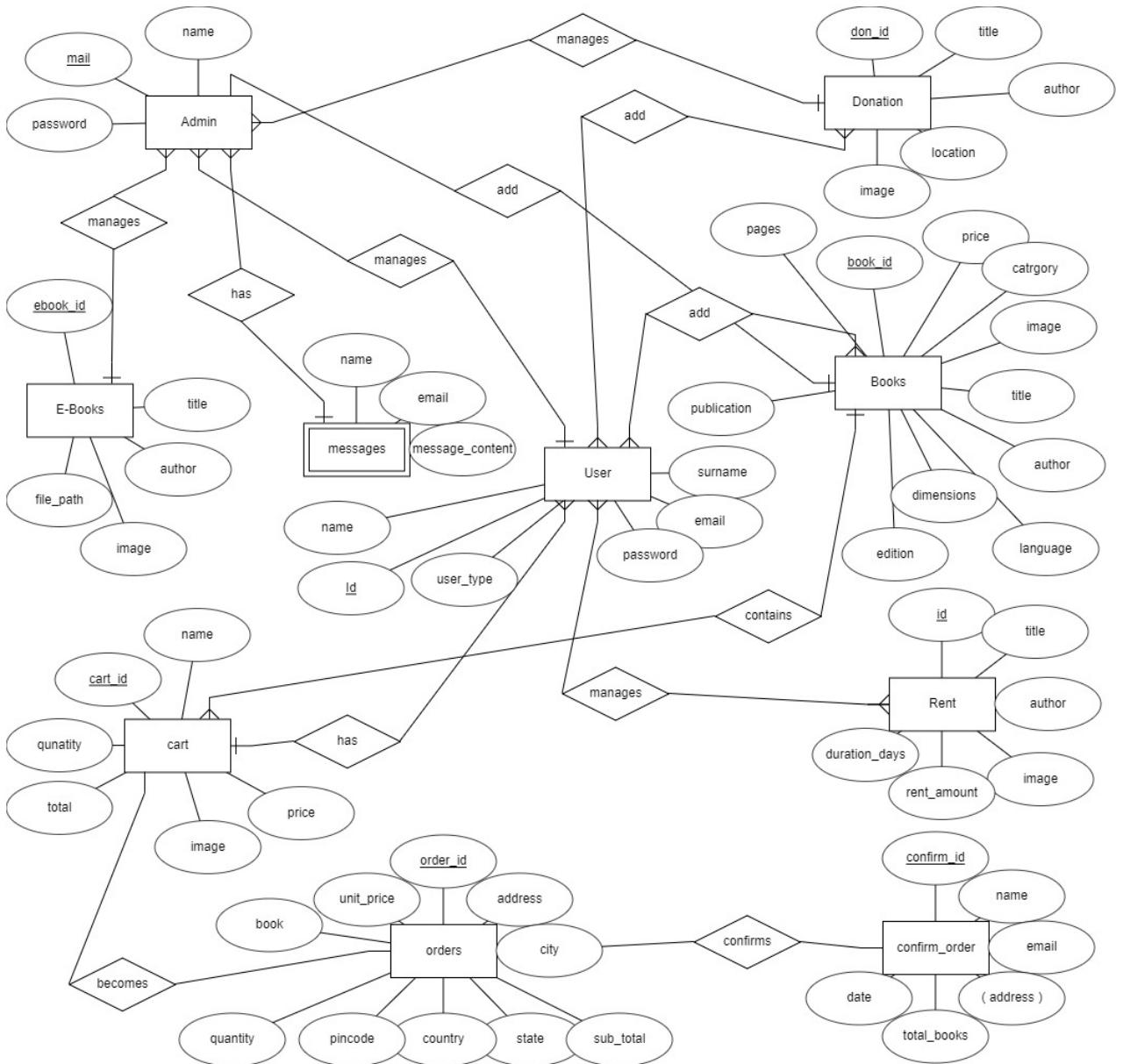


Figure 3.1: ER DIAGRAM

3.6 DATA FLOW DIAGRAMS

3.6.1 DFD Level 0 Diagram

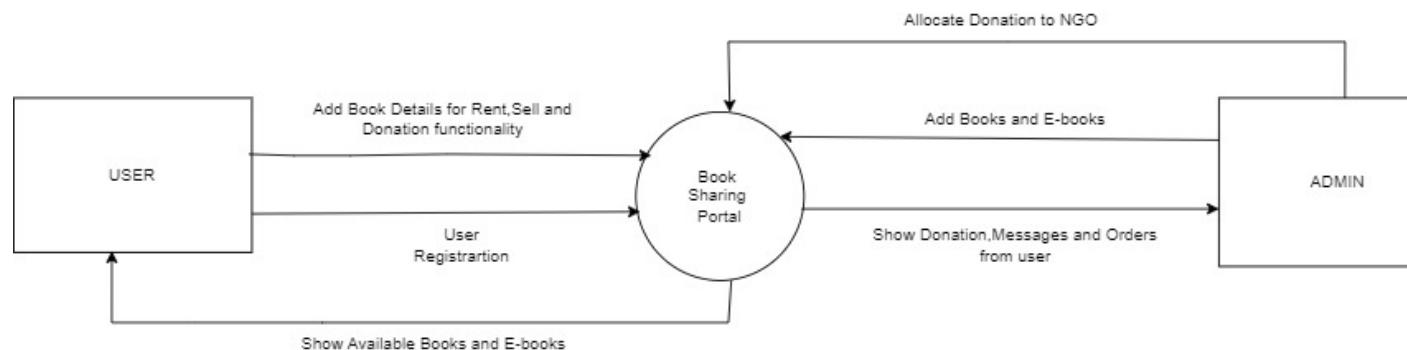


Figure 3.2: DFD LEVEL-0 DIAGRAM

3.6.2 DFD Level 1 Diagram

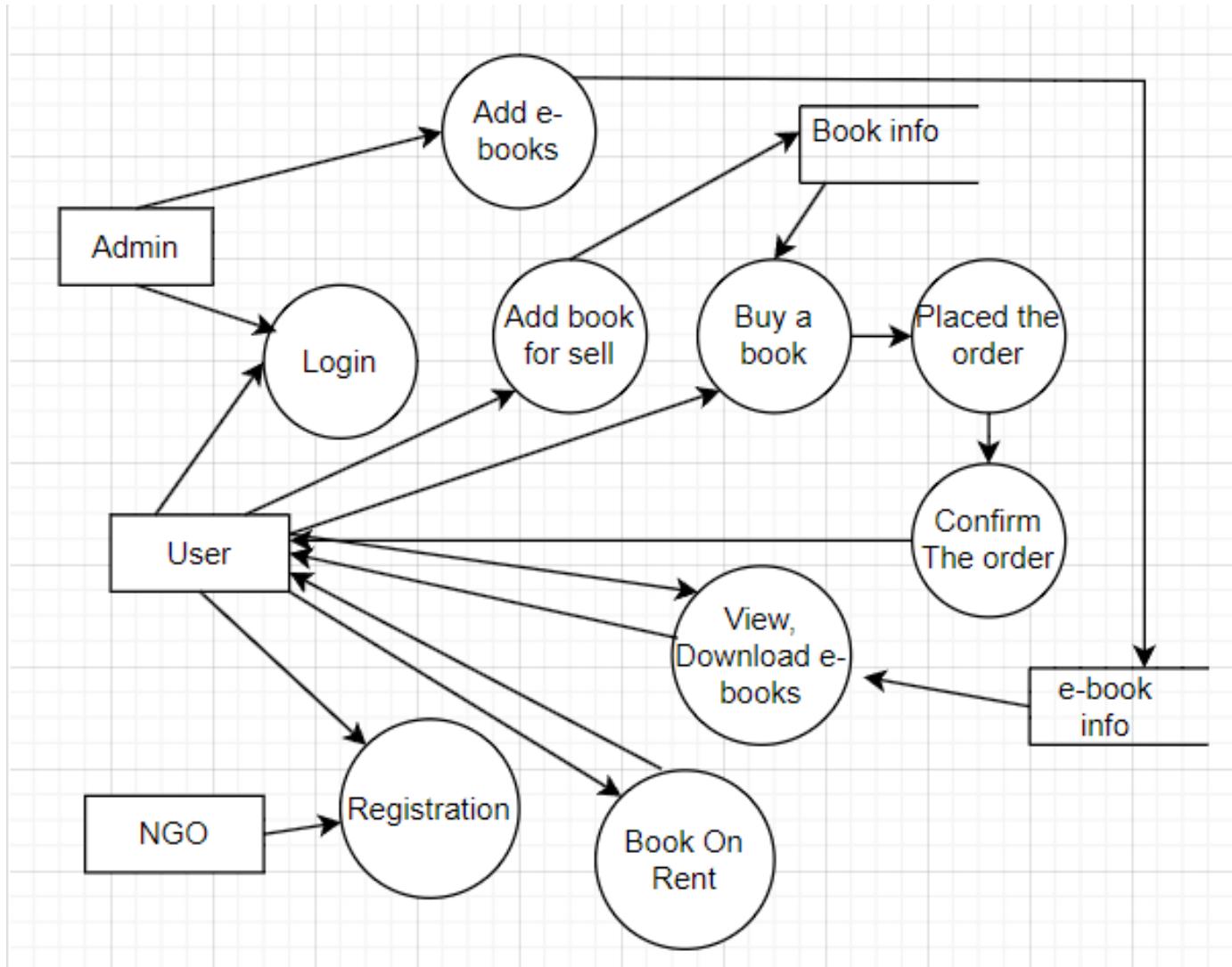


Figure 3.3: DFD LEVEL-1 DIAGRAM

3.6.3 DFD Level 2 Diagram

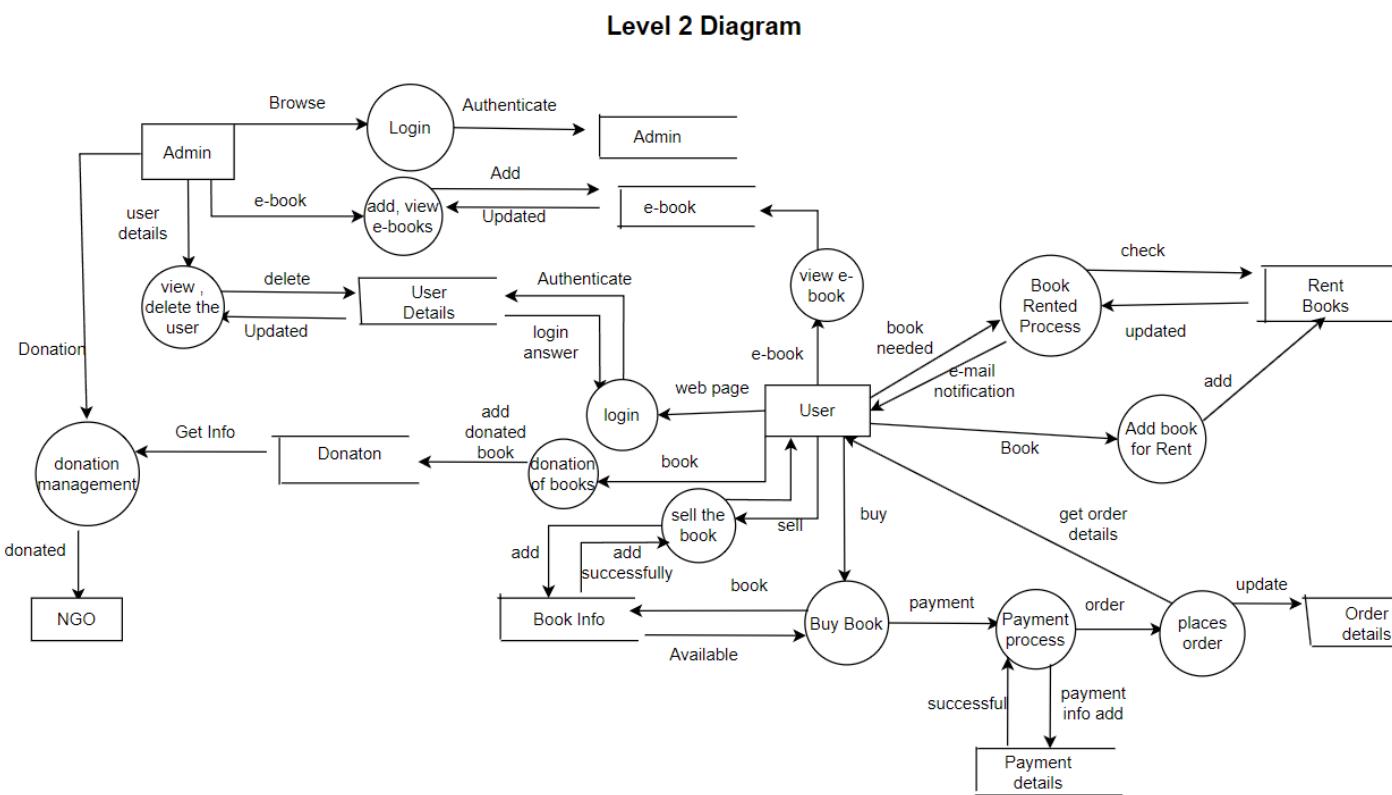


Figure 3.4: DFD LEVEL-2 DIAGRAM

4 Design/Architecture

4.1 UML Diagram

4.1.1 USE CASE DIAGRAM

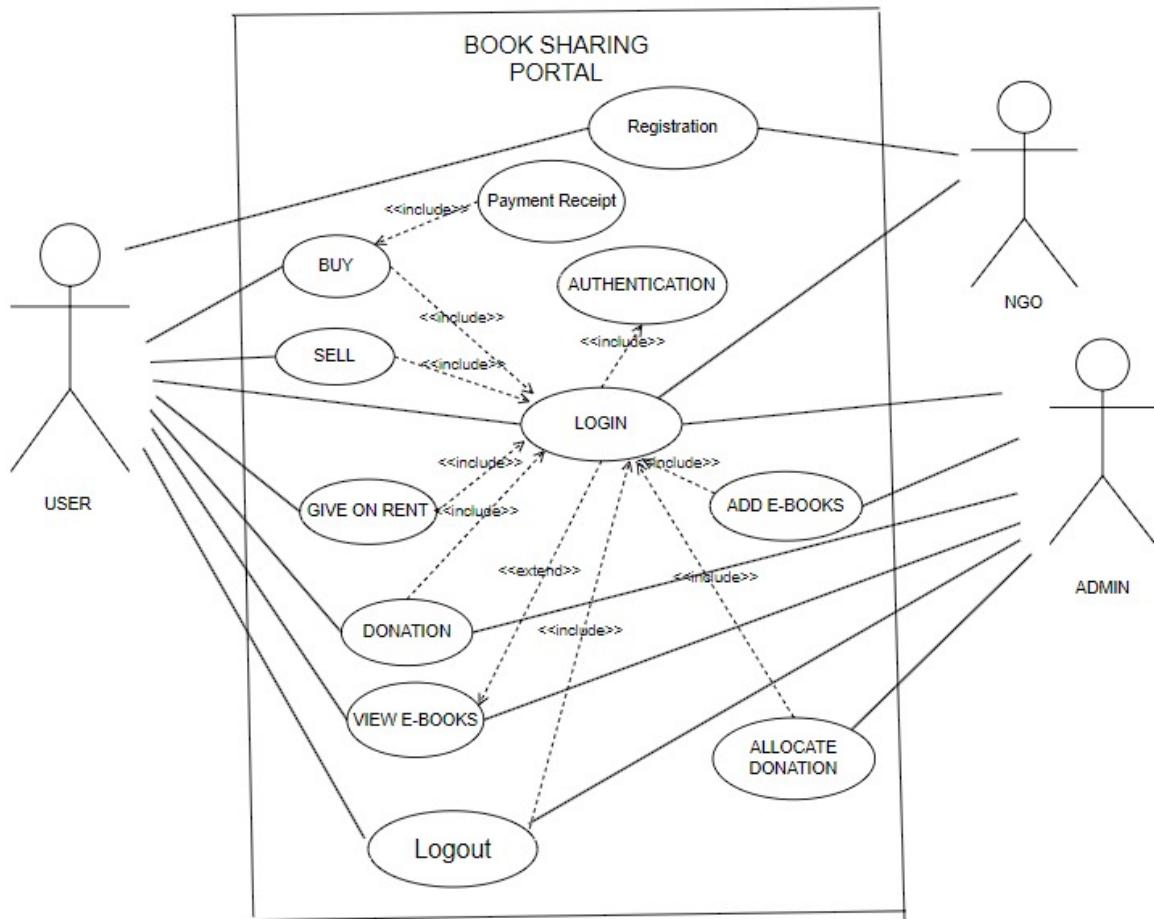


Figure 4.1: USE CASE DIAGRAM

4.1.2 CLASS DIAGRAM

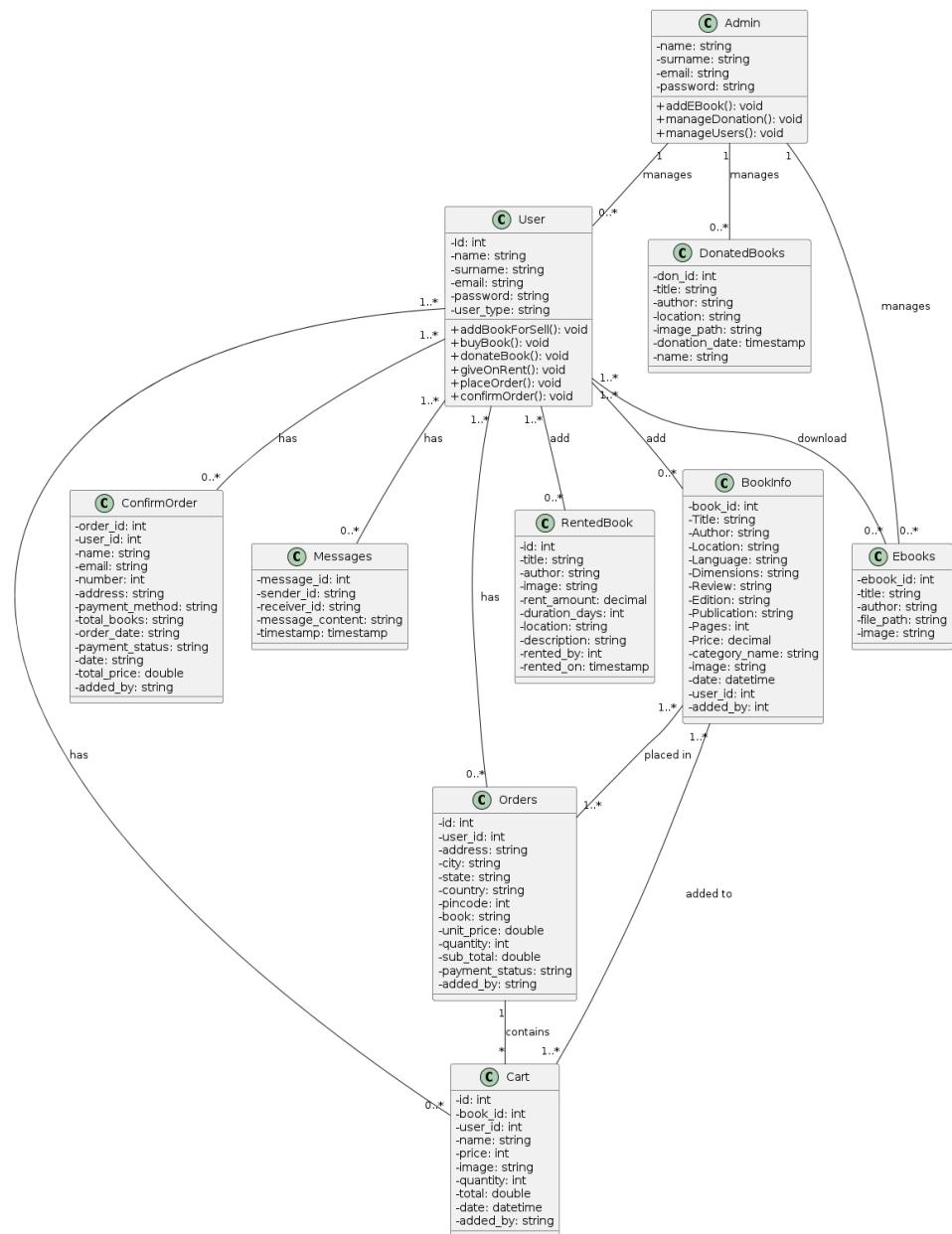


Figure 4.2: CLASS DIAGRAM

4.1.3 SEQUENCE DIAGRAM

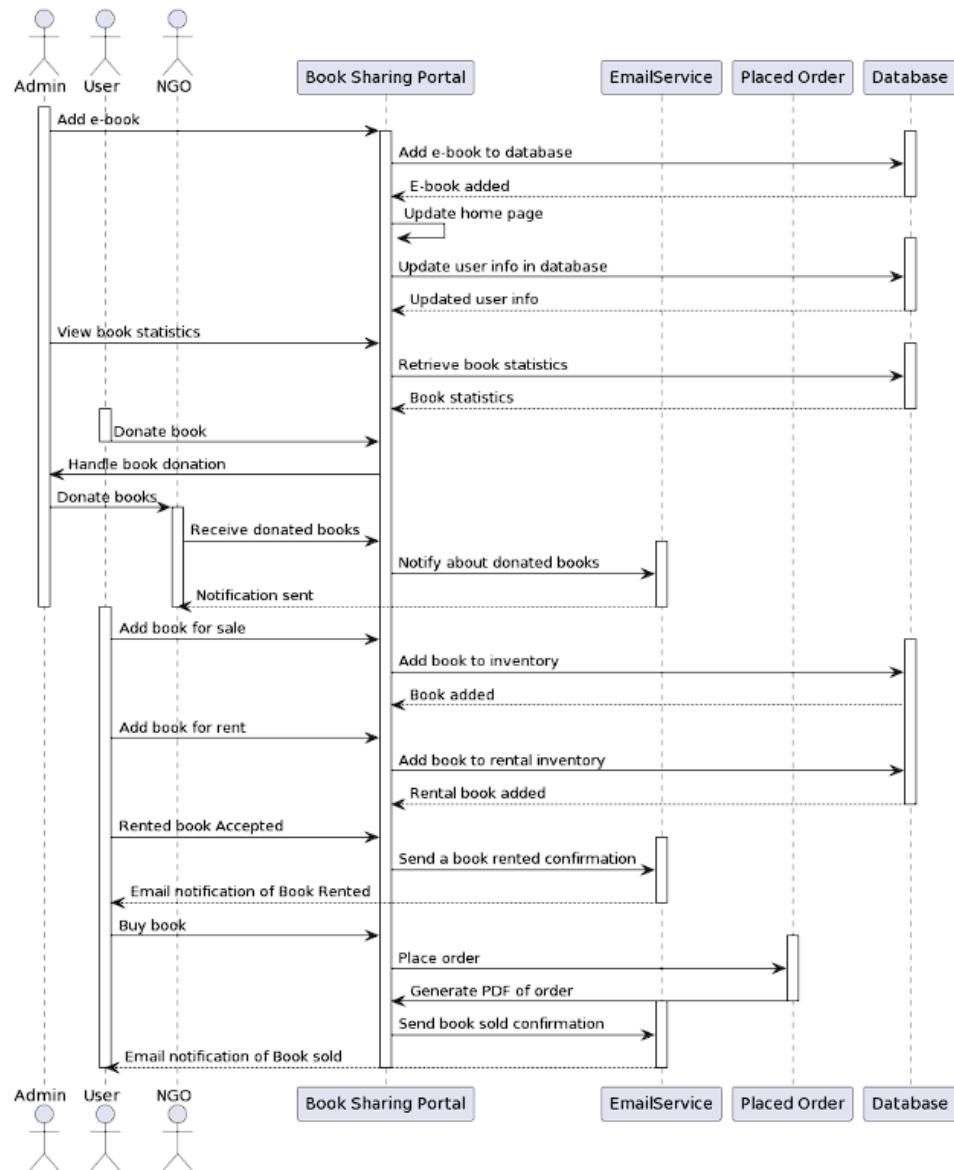


Figure 4.3: SEQUENCE DIAGRAM

4.1.4 ACTIVITY DIAGRAM

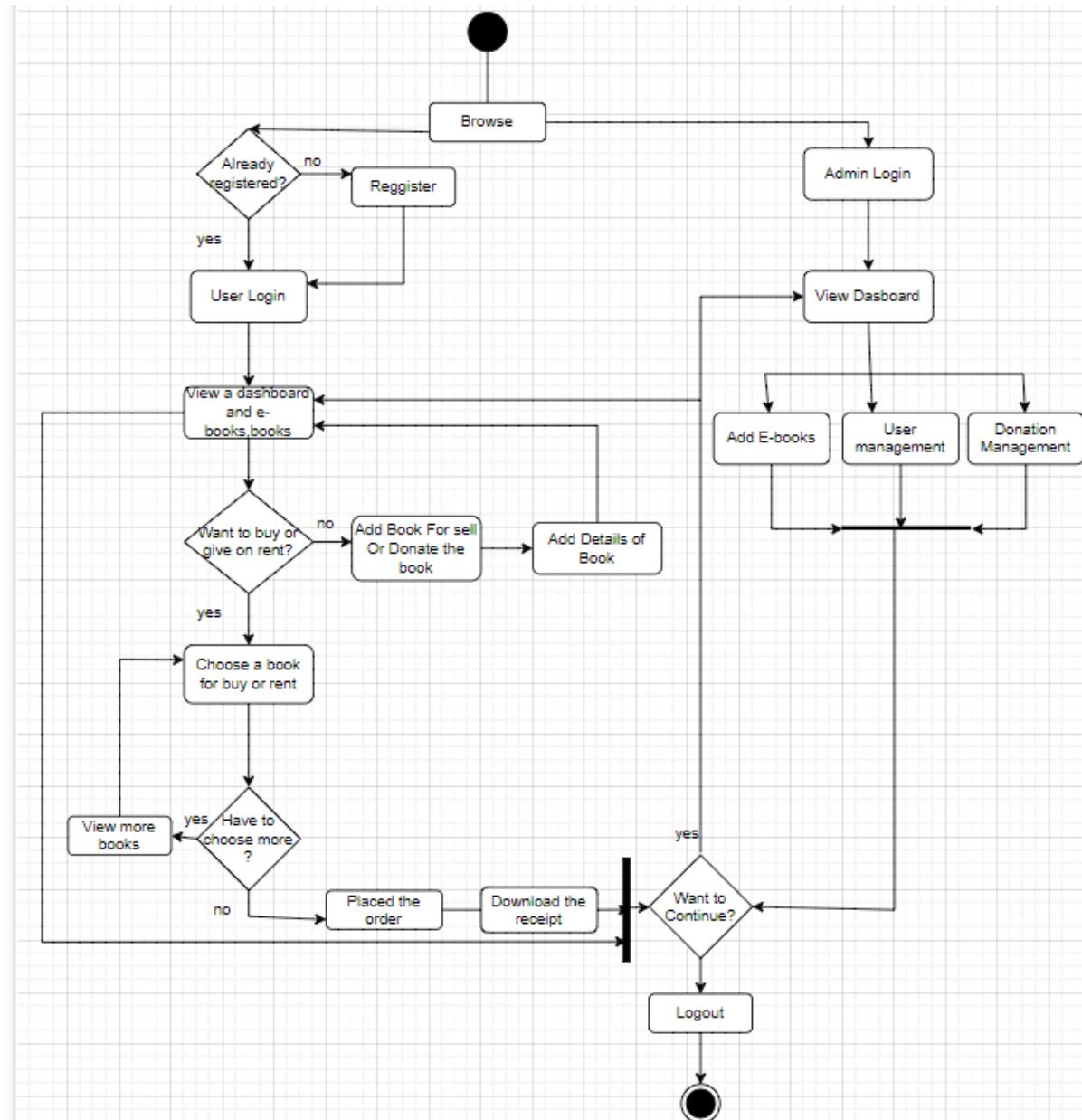


Figure 4.4: ACTIVITY DIAGRAM

4.1.5 COMPONENT DIAGRAM

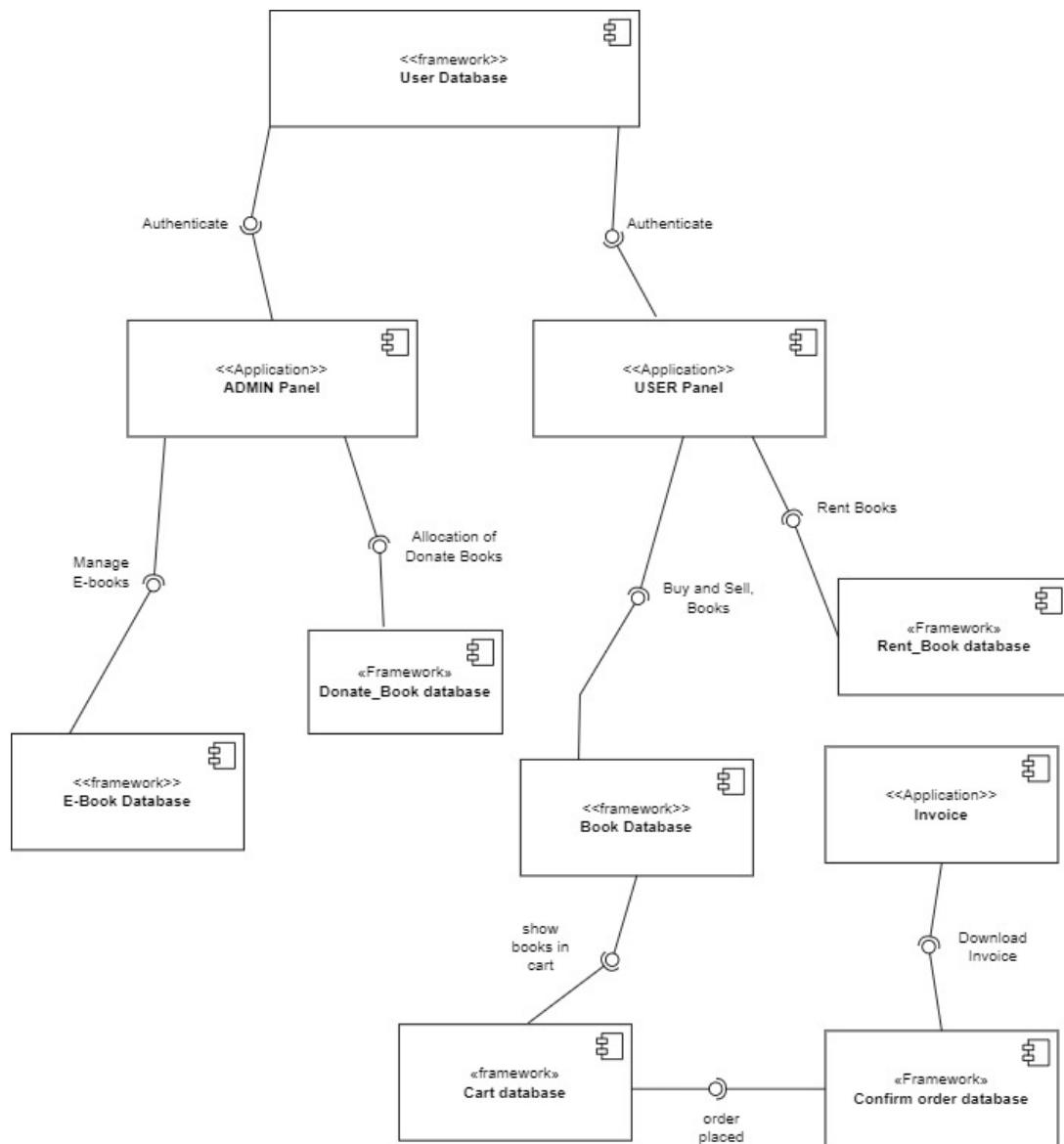


Figure 4.5: COMPONENT DIAGRAM

4.1.6 DEPLOYMENT DIAGRAM

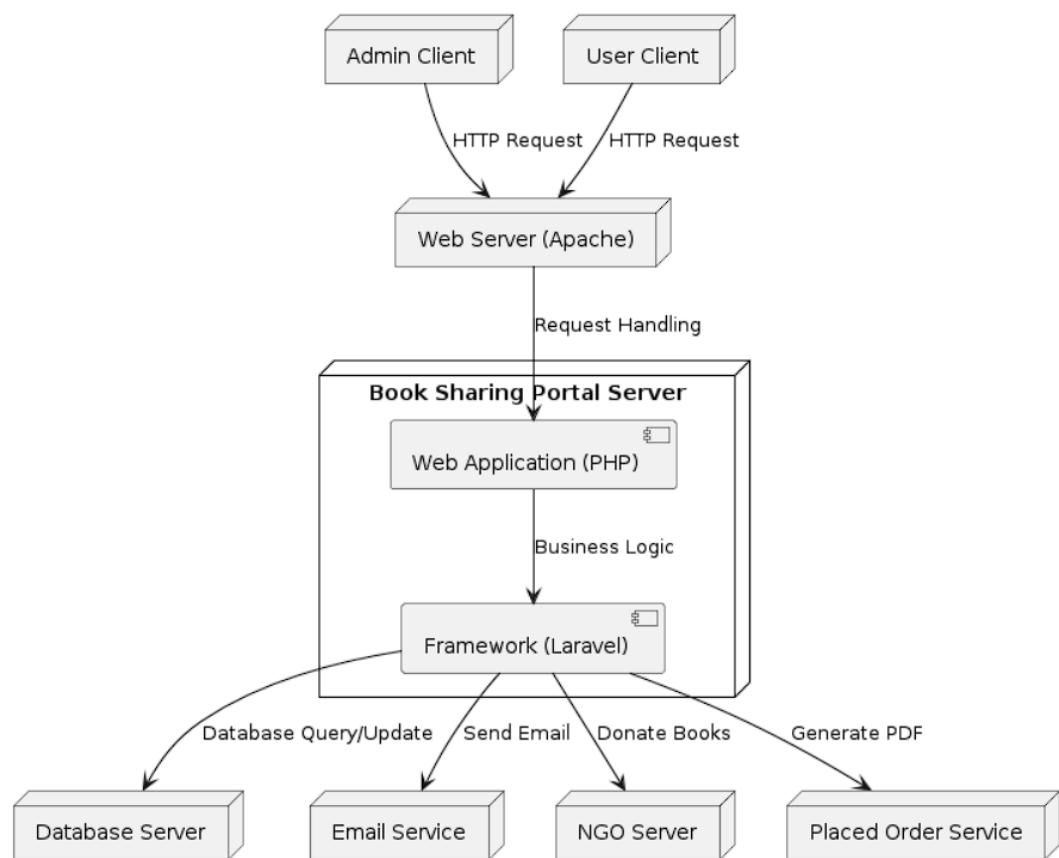


Figure 4.6: DEPLOYMENT DIAGRAM

5 Coding and Implementation

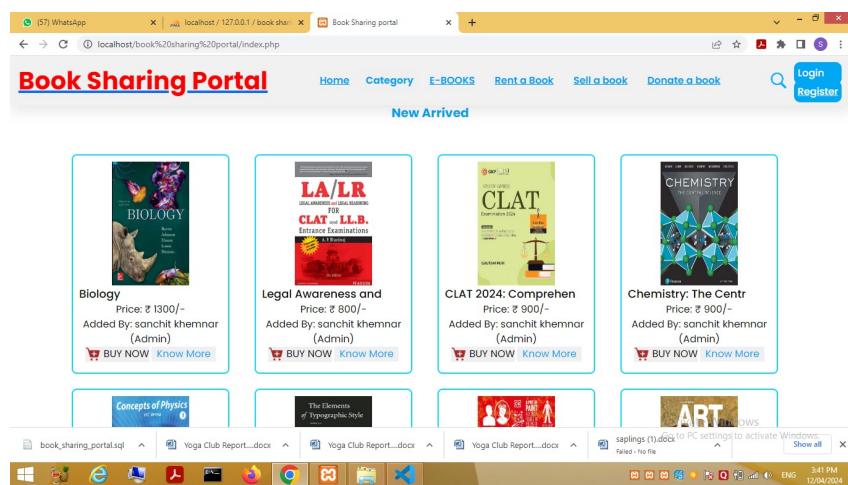


Figure 5.1: HOME PAGE

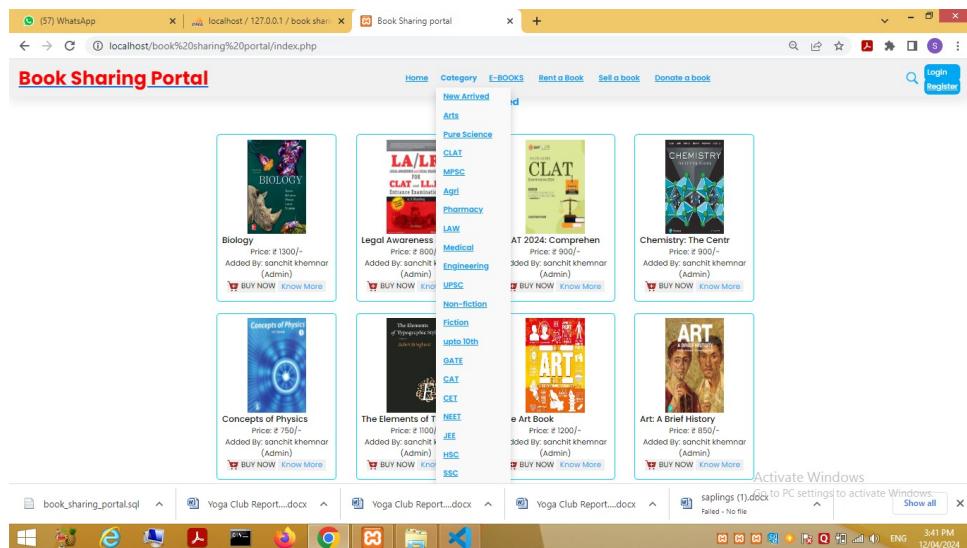


Figure 5.2: DIFFERENT CATEGORIES OF BOOKS

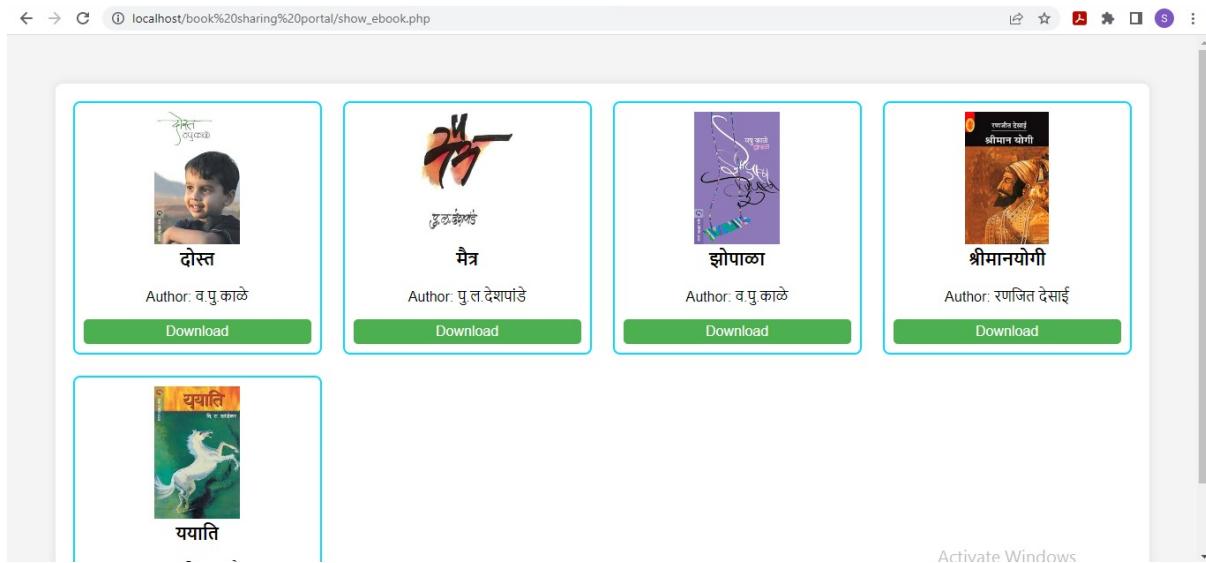


Figure 5.3: E-books For Download

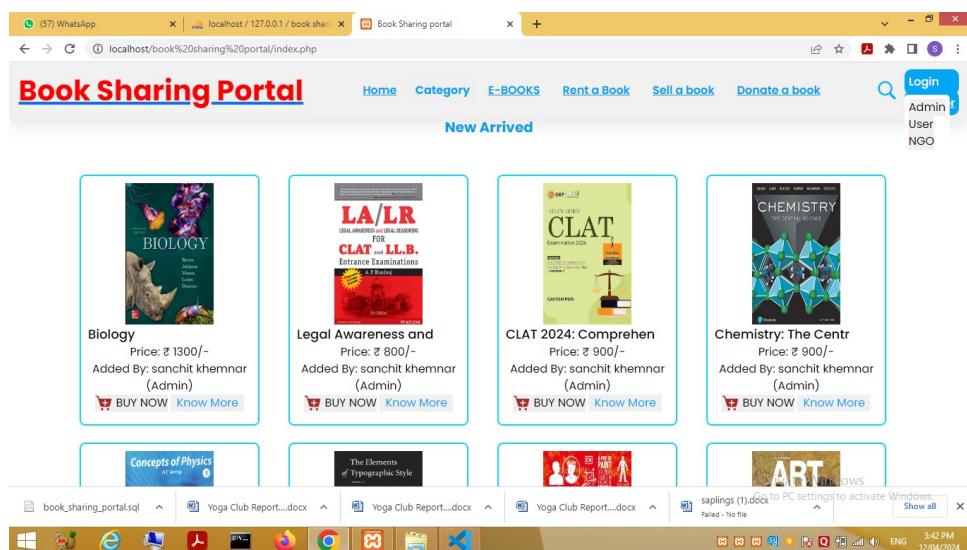


Figure 5.4: NGO, USER, ADMIIN LOGIN OPTION

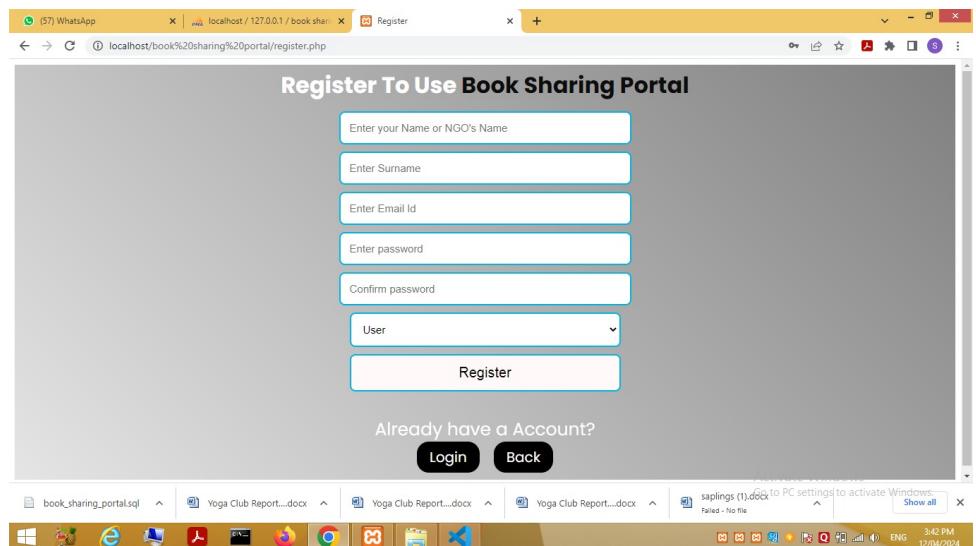


Figure 5.5: REGISTRATION PAGE FOR USER AND NGO'S

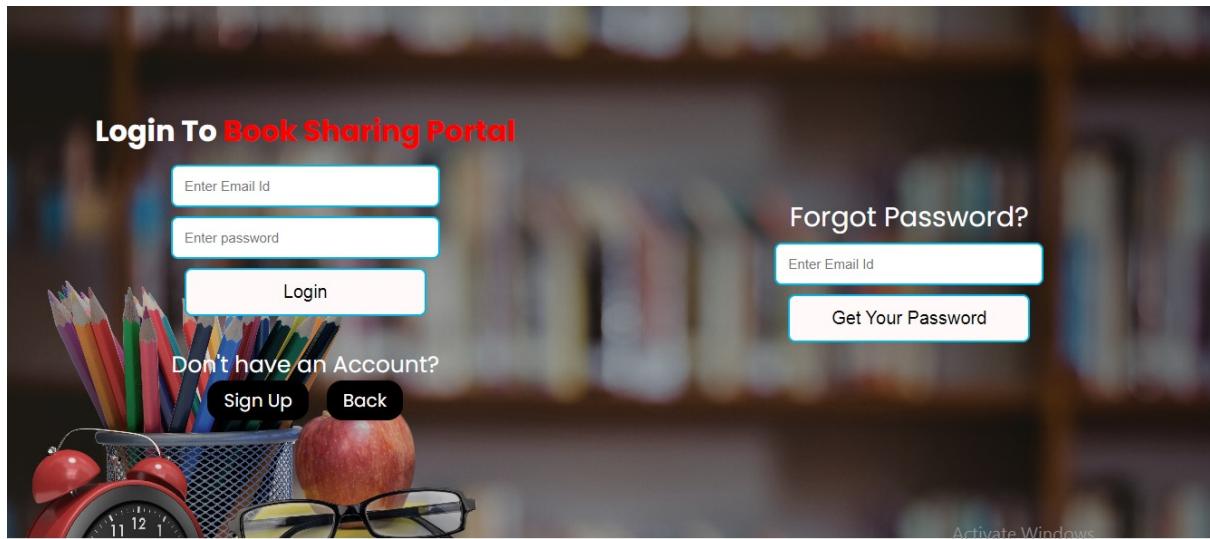


Figure 5.6: LOGIN PAGE

localhost/book%20sharing%20portal/rent_book.php

Rent a Book

User Information

Name: sanchit
Surname: khemnar
Email: saisanchitkhemnar@gmail.com

Title:

Author:

Book Image: Choose File No file chosen

Rent Amount:

Duration (in Days):

Location:

Description:

Activate Windows

This screenshot shows a web browser window with the URL 'localhost/book%20sharing%20portal/rent_book.php'. The page title is 'Rent a Book'. On the left, there's a 'User Information' section with fields for Name, Surname, and Email, all populated with 'sanchit', 'khemnar', and 'saisanchitkhemnar@gmail.com' respectively. The main form area is titled 'Rent a Book' and contains several input fields: 'Title' (empty), 'Author' (empty), 'Book Image' (with a placeholder 'Choose File No file chosen'), 'Rent Amount' (empty), 'Duration (in Days)' (empty), 'Location' (empty), 'Description' (empty), and a 'Rent Book' button at the bottom.

Figure 5.7: GIVE BOOK ON RENT BY USER

localhost/book%20sharing%20portal/sell_book.php

Sell a Book

User Information

Name: sanchit
Surname: khemnar
Email: saisanchitkhemnar@gmail.com

Title:

Author:

Location:

Language:

Dimensions:

Review:

Editor:

Publication:

Pages:

Price:

Category: Arts

Book Image: Choose File No file chosen

Activate Windows

This screenshot shows a web browser window with the URL 'localhost/book%20sharing%20portal/sell_book.php'. The page title is 'Sell a Book'. On the left, there's a 'User Information' section with fields for Name, Surname, and Email, all populated with 'sanchit', 'khemnar', and 'saisanchitkhemnar@gmail.com' respectively. The main form area is titled 'Sell a Book' and contains many input fields for book details: Title, Author, Location, Language, Dimensions, Review, Editor, Publication, Pages, Price, Category (with a dropdown menu showing 'Arts'), Book Image (with a placeholder 'Choose File No file chosen'), and a 'Sell Book' button at the bottom.

Figure 5.8: USER - SELL BOOK

localhost/book%20sharing%20portal/donate_book.php

Donate a Book

Title:

Author:

Location:

Book Image: No file chosen

Donate Book

Activate Windows

Figure 5.9: USER - DONATE A BOOK

localhost/book%20sharing%20portal/cart.php

Book Sharing Portal

[Home](#)
[Category](#)
[E-BOOKS](#)
[Rent a Book](#)
[Sell a book](#)
[Donate a book](#)

🔍
👤

Image	Name	Price	Quantity	Total (₹)	Action
	Legal Awareness and	800	1	800	Remove
	CLAT 2024: Comprehen	900	1	900	Remove
Total					₹ 1700/-
Proceed To Checkout			Continue Shopping		

Quick Links

[Home](#)

Account

[Profile](#)

Contact

[Contact Form](#)

Figure 5.10: USER - BUY A BOOK

The screenshot shows a web browser window for the "Book Sharing Portal". The URL is localhost/book%20sharing%20portal/orders.php. The page title is "PLACED ORDERS". The user information displayed is:

- Order Date : 12-Apr-2024
- Order Id : # 0
- Name : Sanchit
- Mobile Number : 2147483647
- Email Id : saisanchitkhemnar@gmail.com
- Address : COEP Hostel , Pune, Maharashtra, India - 411005
- Payment Method : cash on delivery
- Your orders : Concepts of Physics #19,(1)
- Total price : ₹ 750.00/-

Buttons at the bottom include "Print Receipt" and "Activate Windows".

Figure 5.11: USER - PLACED A ORDER

The screenshot shows a PDF document titled "Book Sharing Portal & Invoice Details". The document contains the following information:

SHIPPING ADDRESS:

- To, sanchit
- Address, Ganesh Colony Loni kd. Tal-Rahata
- city, Ahmednagar
- state, Maharashtra
- Country, India
- Pincode, 413713

SOLD BY:

- By, Book Sharing Portal
- Address
- Area
- city
- state

Details:

- Invoice Date: Order ID: 0
- Order Date: 09-Apr-2024
- From: Read Me
- Payment Method: cash on delivery

Order Details Table:

S.No.	BOOK NAME	QTY	UNIT PRICE	Total
1	Legal Awareness and	1	800.00	800.00
2	Biology	2	1300.00	2600.00
	^ LAT 2024: Comprehen	1	900.00	900.00

Figure 5.12: USER - ORDER RECEIPT PDF

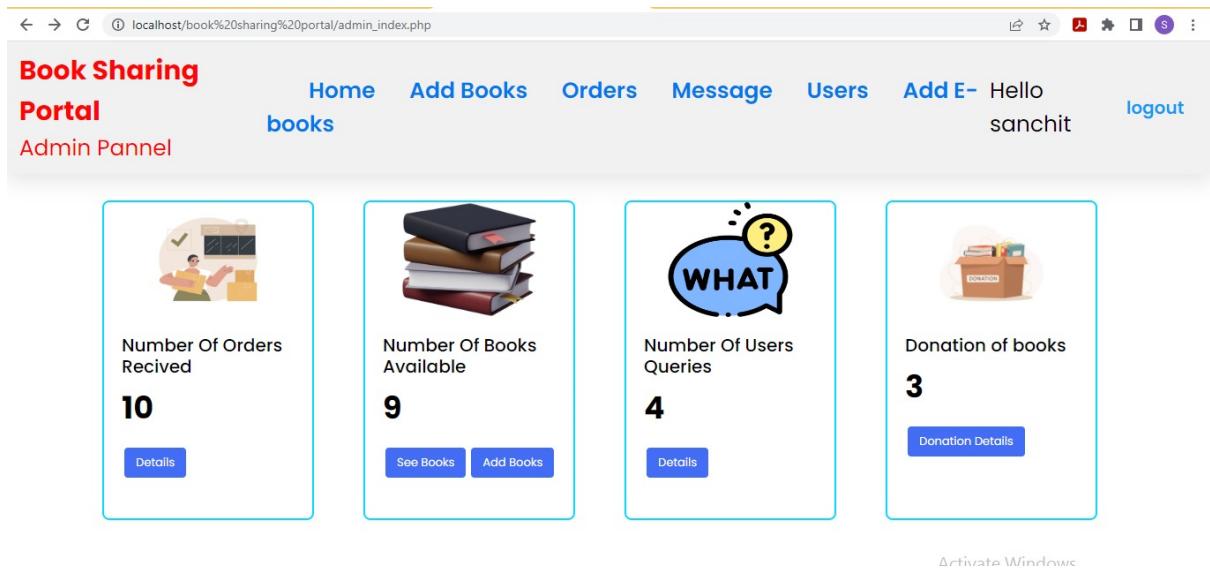


Figure 5.13: ADMIN DASHBOARD

Book Sharing Portal

Admin Panel

Home books

Orders Message Users Add E- Hello sanchit logout

[See All E-Books](#)

Add E-Books To Book Sharing Portal

E-book Title:

Author Name:

E-book Image:

E-book File:

[Add E-book](#)

Activate Windows

Figure 5.14: ADMIN ADD E-BOOKS

localhost/book%20sharing%20portal/show_donation.php

Book Sharing Portal

Admin Pannel

Home Add Books Orders Message Users Add E- Hello sanchit logout

Donation ID: 20
Title: Concepts Of Physics
Author: H C Verma
Location: Pune
Donated By: Tejas Gawate

Allocate It To NGO

Donation ID: 21
Title: 10th Science Textbook
Author: NCERT
Location: Pune
Donated By: Tejas Gawate

Allocate It To NGO

Donation ID: 22
Title: Mathematics
Author: R.S.Agrawal
Location: Pune
Donated By: Sanchit Khemnar

Allocate It To NGO

Activate Windows

Figure 5.15: ADMIN ALLOT DONATED BOOKS TO NGO'S

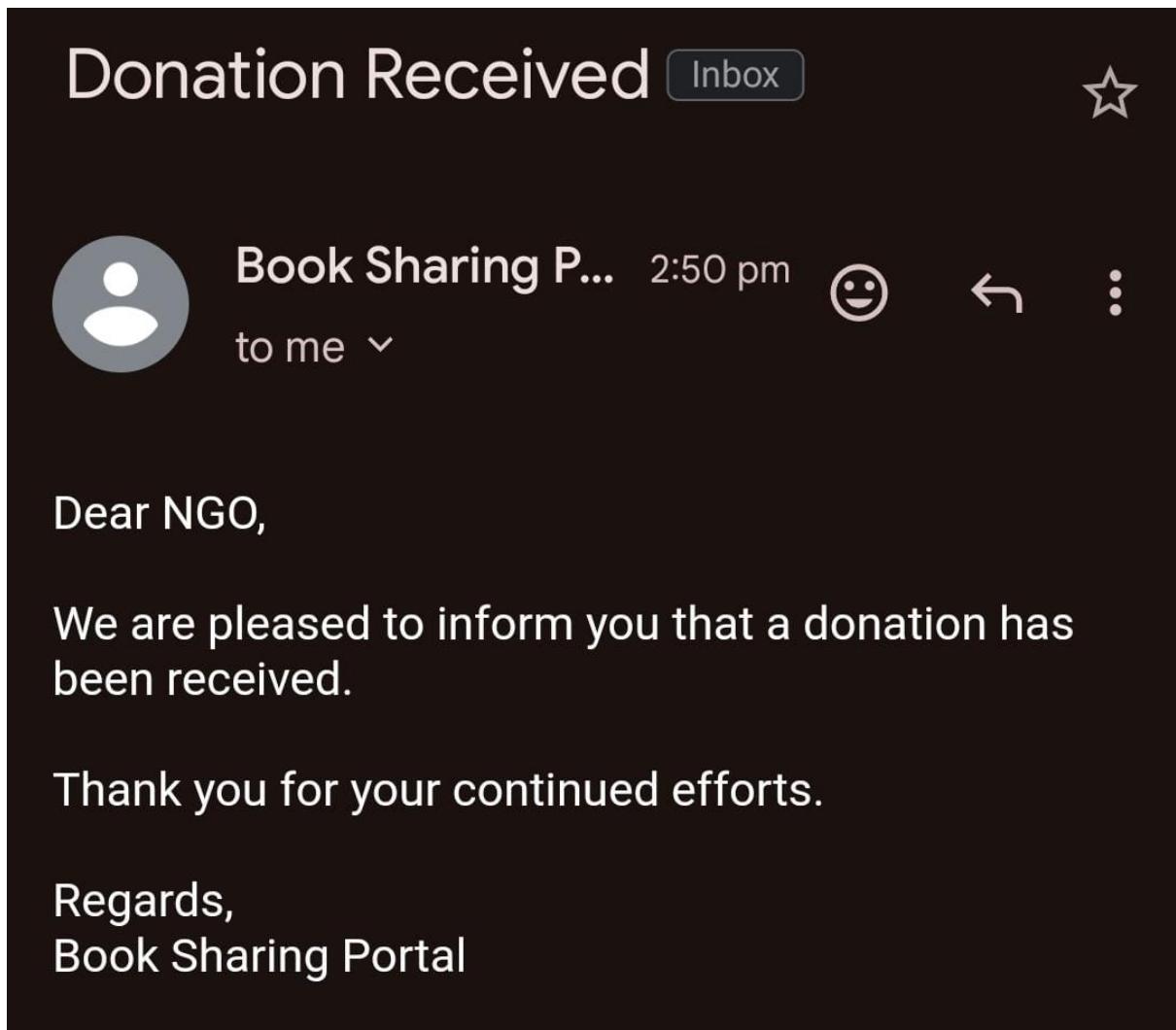


Figure 5.16: NGO - DONATION E-MAIL

The screenshot shows the 'Book Sharing Portal' Admin Panel. At the top, there are navigation links: Home, Add Books, Orders, Message, Users, Add E-, and a greeting 'Hello sanchit'. On the right, there is a 'logout' link. The main area is titled 'Admin Panel' and displays a list of messages from users. Each message card contains the following information:

- Message ID:** 6
- Name:** Pawan
- Email ID:** Pawan@Gmail.Com
- Number:** 2147483647
- Message:** MOST DANGEROUS GAME AND OTHER STORIES OF ADVENTURE, THE is there availability
- Date:** 2023-02-23 13:41:50
- Delete**

Below this, another message card is partially visible:

- Message ID:** 0
- Name:** Sanchit
- Email ID:** Khemnarst21.Corp@Coe
- Number:** 2147483647

On the right side of the screen, there is a watermark 'Activate Windows'.

Figure 5.17: ADMIN - USER'S MESSAGES

The screenshot shows the 'Book Sharing Portal' Admin Panel. At the top, there are navigation links: Home, Add Books, Orders, Message, Users, Add E-, and a greeting 'Hello sanchit'. On the right, there is a 'logout' link. The main area is titled 'Admin Panel' and displays a list of users. Each user card contains the following information:

User ID	Name	Email ID	Password	User type	Actions
100	Sanchit Khemnar	Saisanchitkhemnar@Gm	I2345	User	Update Delete
104	Sanchit Khemnar	Sai@Gmail.Com	I2345	Admin	Update Delete
105	Scil Sai	Kh@Cooptech.Ac.In	I23456	User	Update Delete
108	Foundation Sai	Sanchit@Gamil.Com	I23456	NGO	Update Delete
109	Sanchit Khemnar	Sanchit@Gmail.Com	I23456	User	Update Delete
111	Tejas Gawate	Tejasgawate31@Gmail.Com	I234	User	Update Delete

On the right side of the screen, there is a watermark 'Activate Windows'.

Figure 5.18: ADMIN - MANAGES USERS

6 Testing Analysis

6.1 Scope

The scope of the white-box testing included:

- Examination of source code
- Identification of potential vulnerabilities and bugs.
- Validation of data flow and control flow
- Analysis of boundary conditions and error handling

6.2 Tracability Matrics

Requirement ID	Requirement Description	Source	Features	Dependencies	Subsystem	Interface	Test Cases
R1	User Registration	User Needs	Allow users to register for using different functionality of book sharing portal.	Database for user storage and retrieval	Client-Server	User Interface	TC-R1
R2	User Login	User Needs	Allow users to enter into the Web portal	Database for user storage and retrieval	Client-Server	User Interface	TC-R2
R3	Admin Login	Initial Requirement	Allow admin to view its own dashboard	Database for user storage and retrieval	Client-Server	Admin Interface	TC-R3
R4	Dashboard Functionality	Initial Requirement	Provide an interactive dashboard for users to view book details and manage their requirements.	Database for user and book details storage	Client-Server	User Interface	TC-R4
R5	Book Search Functionality	User Needs	Enable users to search for available Books on Portal.	Database for Book information storage	Client-Server	User Interface	TC-R5
R6	Buy books available on the Portal.	User Needs	Allow users to add their required books in cart and buy the books by placing order.	Database for storage of book details , Availability of required books on portal	Client-Server	User Interface	TC-R6
R7	Add Book For rent on Portal	User Needs	Allow user to add a book on rent	storage of book details , Availability of required books on	Client-Server	User Interface	TC-R7
R8	Selling of books by users on the portal	User Needs	Allow users to add books on portal for the purpose of selling.	Database for storage of book details.	Client-Server	User Interface	TC-R8
R9	Take a payment details pdf	User Needs	User get a receipt of payment of their order by Downloading the pdf	After Confirming the order, User can download pdf	Client-Server	User Interface	TC-R9
R10	Recover the Password of user	User Needs	User can get its password on its registered email address	Database for user storage and retrieval	Client-Server	User Interface	TC-R10
R11	Download E-Books by any user	User Needs	website to download a free e-books	Database for e-books	Client-Server	User Interface	TC-R11
R12	Add E-books by Admin	User Needs	Admin can add those e-books on which there is no copyright	Database for e-books	Client-Server	Admin Interface	TC-R12
R13	Manage the users	Admin need	Admin can update or delete a user	Database for user storage and retrieval	Client-Server	Admin Interface	TC-R13

Figure 6.1: Tracability Matrics

6.3 Testing Methodology

6.3.1 Tools Used

Static Analysis Tools: Used VS Code (as IDE as well as extensions for debugging) for static code analysis to identify potential issues such as: Security vulnerabilities (e.g., not hashing the passwords)

Code Review: Conducted manual code reviews to identify: Logical errors, Potential security vulnerabilities.

Unit Testing Framework: Utilized Manual Unit testing to create and execute unit tests for individual components and functions within the application.

6.4 Test Cases

6.4.1 Input Validation Testing

Validated input fields against specified data types, lengths, and formats as well as for incorrect cases such as: Leaving fields blank, ensured proper handling of invalid inputs with appropriate error messages.

6.4.2 Control Flow Testing

Examined all possible code paths to verify the correctness of decision-making and branching. Ensured that conditional statements and loops were executed as expected. Validated error-handling mechanisms under various scenarios and edge cases.

6.4.3 Boundary Value Testing

Tested edge cases and boundary values for input parameters. Verified the application's behavior at the upper and lower limits of input ranges.

6.4.4 Error Handling Testing

Triggered and tested error conditions to ensure that exceptions were caught and handled appropriately. Verified that error messages were clear, informative, and did not reveal sensitive information.

6.4.5 Results

Static Analysis: Unused Code and imports were removed.

Unit Testing: All test-found bugs were fixed.

Code Coverage: 100% (All the code was reviewed)

7 Conclusion and Future Scope

7.1 Conclusion

The Book Sharing Portal project represents a significant step forward in promoting accessibility, affordability, and community engagement within the realm of literature. By harnessing the power of PHP for server-side scripting and CSS for styling, this platform offers users a seamless and intuitive experience for buying, selling, renting, and donating books.

Through effective user management and administrative oversight, the platform ensures a safe and secure environment for all participants. Administrators play a crucial role in curating the digital library and facilitating philanthropic initiatives, further enhancing the platform's impact on literacy and education.

In conclusion, the Book Sharing Portal project exemplifies the transformative potential of technology in promoting the joy of reading and making a meaningful impact on society. With its user-centric design and commitment to fostering community empowerment, this platform stands as a beacon of accessibility and inclusivity in the global literary landscape..

7.2 Future Scope

- Enhanced User Experience: Continuously refine the user interface and incorporate user feedback to improve navigation, accessibility, and overall user experience. Introduce features such as personalized recommendations, user-generated content, and social sharing functionalities to further engage users and foster a sense of community.
- Mobile Application Development: Expand the reach of the platform by developing dedicated mobile applications for iOS and Android devices. Mobile apps will allow users to access the Book Sharing Portal on the go, facilitating book transactions and community interactions from anywhere, anytime.
- Integration of Advanced Technologies: Explore the integration of emerging technologies such as artificial intelligence (AI) and machine learning (ML) to enhance book recommendation algorithms, optimize search functionalities, and automate administrative tasks. AI-powered chatbots can also be implemented to provide instant customer support and assistance to users.
- Global Expansion: Extend the reach of the Book Sharing Portal to new geographical regions and languages, catering to a diverse audience of book enthusiasts worldwide. Collaborate with local publishers, libraries, and educational institutions to curate region-specific content and foster cultural exchange through literature.
- Educational Initiatives: Partner with educational institutions, libraries, and literacy organizations to develop educational modules, reading challenges, and book clubs tailored to different age groups and learning levels. Implement features such as virtual book fairs, author Question and Answer sessions, and literary events to promote reading culture and lifelong learning.

- Monetization Strategies: Explore additional revenue streams such as premium memberships, sponsored content, targeted advertising, and affiliate marketing partnerships with bookstores and publishers. Implement analytics tools to track user engagement, conversion rates, and revenue generation, enabling data-driven decision-making for monetization strategies.
- Expanded Content Formats: Diversify the content offerings beyond traditional e-books to include audiobooks, graphic novels, academic journals, and educational resources. Collaborate with content creators and rights holders to expand the digital library and cater to diverse reading preferences and interests.
- Social Impact Initiatives: Strengthen philanthropic initiatives by expanding partnerships with NGOs, charities, and literacy programs. Implement features such as crowdfunding campaigns, book drives, and educational scholarships to support underprivileged communities and promote literacy and education worldwide.