



Tribhuvan University
Faculty of Humanities and Social Science

**A PROJECT REPORT
ON
BOOK REVIEW PLATFORM**

**Submitted to
Department of Computer Application
St. Lawrence college**

In partial fulfillment of the requirements for the Bachelors in Computer Application

Submitted by

December 2023

**Under the Supervision of
Raj Kumar Shrestha**



Tribhuvan University
Faculty of Humanities and Social Science
St. Lawrence College

Supervisor's Recommendation

I hereby recommend that this project prepared under my supervision by Ishan Shrestha, Aruna Chaulagain, and Shuvam Adhikari entitled “BOOK REVIEW PLATFROM” in partial fulfillment of the requirements for the degree of Bachelor of Computer Application is recommended for the final evaluation.

Raj Kumar Shrestha
BCA Department
St. Lawrence College
Chabahil-7, Kathmandu 44600



Tribhuvan University
Faculty of Humanities and Social Science
St. Lawrence College

LETTER OF APPROVAL

This is to certify that this project prepared by Ishan Shrestha, Aruna Chaulagain and Shuvam Adikari entitled “BOOK REVIEW PLATFORM” in partial fulfillment of the requirements for the degree of Bachelors in Computer Application has been evaluated. In our opinion it is satisfactory in scope and quality as a project for the required degree.

..... SIGNATURE of Supervisor Raj Kumar Shrestha BCA Department St. Lawrence College Chabahil-7, Kathmandu 44600 SIGNATURE of HOD/ Coordinator
..... SIGNATURE of Internal Examiner Internal Examiner SIGNATURE of External Examiner External Examiner

ABSTRACT

In the realm of literary criticism and reader engagement, the emergence of digital technologies has catalyzed a transformation in how books are reviewed and discussed. This abstract explores an innovative book review platform that has revolutionized the way readers, authors, and critics interact in the contemporary literary landscape. This platform serves as a dynamic hub for bibliophiles, offering a seamless interface that connects readers with an extensive array of book reviews, critiques, and analyses. Leveraging advanced natural language processing algorithms and machine learning, the platform empowers users to access insightful reviews and assessments that span genres, cultures, and time periods. The incorporation of sentiment analysis and thematic extraction allows for a deeper understanding of the emotional and intellectual impact of a given book.

Keywords: **HTML, CSS, JAVASCRIPT, Golang, POSTGRESQL, DOCKER**

ACKNOWLEDGEMENT

This project is prepared in partial fulfilment of the requirement of 4th Semester Project-I. The satisfaction and success of completion of this task would be incomplete without heartfelt thanks to people whose constant guidance, support, and encouragement made this work successful. In doing this undergraduate project we have been fortunate to have help, support, and encouragement from many people. We would like to acknowledge them for their cooperation.

We would like to thank St. Lawrence College for providing us a huge platform to gain knowledge about different aspects of Computer Science and Information Technology.

We would like to thank our Supervisor Mr. Raj Kumar Shrestha who persuaded and continuously guided us during the whole course of our project. We would also like to thank him for providing us with the necessary content and classes regarding the project. We are also grateful to Mr. Raj Kumar Shrestha for acting as our supervisor and showing immense patience and understanding throughout the project and provided suggestions.

Last, but not least, we also take this opportunity to thank our friends and colleagues for their support and feedback throughout this project.

With Regards,

Table Of Content

Supervisor's Recommendation	i
LETTER OF APPROVAL	ii
ABSTRACT.....	iii
ACKNOWLEDGEMENTiv
Table Of Content.....	v
List Of Abbreviations	vii
List of Figures	viii
List of Tablesix
Chapter 1: Introduction	1
1.1. Introduction.....	1
1.2. Problem Statement.....	2
1.3. Objectives	2
1.4. Scope and Limitation	2
1.4.1. Scope.....	2
1.4.2. Limitations	3
Chapter 2: Background Study and Literature Review	4
2.1. Background Study.....	4
2.2. Literature Review.....	4
Chapter 3: System Analysis	6
3.1. System Analysis.....	6
3.1.1. Requirement Analysis	6
3.1.2. Feasibility Analysis.....	7
3.1.4. Process Modeling.....	10
3.2. System Design	11
3.2.1 Architectural Design	11
3.2.3. Database Schema Design.....	12
3.2.3. Interface Design (UI Interface)	14
3.2.4. Physical Data Flow Diagram	18
Chapter 4: Implementation and Testing.....	20
4.1. Implementation	20
4.1.1. Tools Used	20
4.1.2. Implementation Details of Modules.....	21

4.2. Testing.....	24
4.2.1. Unit Testing	24
4.2.2. System Testing.....	29
Chapter 5: Conclusion and Future Recommendations.....	31
5.1. Lesson Learnt / Outcome	31
5.2. Conclusion	31
5.3. Future Recommendations	32
Appendix.....	33
Screenshot.....	33
References.....	62
Bibliography	62

List Of Abbreviations

HTML: HyperText Markup Language

CSS: Cascading Style Sheet

UI: User Interface

UX: User Experience

KYC: Know Your Customer

CRUD: Create, Read, Update, Delete

ERD: Entity Relationship Diagram

DFD: Data Flow Diagram

List of Figures

Figure 1: Gyantt Chart	8
Figure 2: Entity-Relationship Diagram of Book Review Platform	9
Figure 3: DFD Level 0	10
Figure 4: DFD Level 1	10
Figure 5: Architecture Design.....	11
Figure 6: Database Schema Part 1	12
Figure 7: Database Schema Part 2	13
Figure 8: UI Design Login	14
Figure 9: UI Design Register	14
Figure 10: UI Design Admin User Dashboard	15
Figure 11: UI Design Admin Dashboard User Create	15
Figure 12: UI Design Admin Dashboard Genres.....	16
Figure 13: UI Design Admin Dashboard Genre Detail and Update	16
Figure 14: UI Design Admin Dashboard Genre Delete	17
Figure 15: UI Design Admin Dashboard Publishers List	17
Figure 16: Physical DFD of End User	18
Figure 17: Physical DFD of Admin	19
Figure 18: Screenshot of Home Page.....	33
Figure 19: Screenshot of Books List.....	34
Figure 20: Screenshot of Authors List.....	35
Figure 21: Screenshot of Contact Us Page	36
Figure 22: Screenshot of Login Page.....	36
Figure 23: Screenshot of Administrator Login Page	37
Figure 24: Screenshot of New User Registration	37
Figure 25: Screenshot of Reset Password Page	38
Figure 26: Screenshot of Changing Password	38
Figure 27: Screenshot of Book Detail Page	39
Figure 28: Screenshot of Author Detail Page	40
Figure 29: Screenshot of Publisher Detail Page	41
Figure 30: Screenshot of Creating a New Review.....	42
Figure 31: Screenshot of Reviews in Book Detail Page	43
Figure 32: Screenshot of Book List under English Lanugage	44
Figure 33: Screenshot of User's Profile Page	45
Figure 34: Screenshot of Book List According to Category.....	46
Figure 35: Screenshot of Books in Read List	47
Figure 36: Screenshot of Books in Buy List.....	48
Figure 37: Screenshot of Requesting a New Book	48
Figure 38: Screenshot of Admin Dashboard.....	49
Figure 39: Admin Dashboard Screenshot of Users List	49
Figure 40: Admin Dashboard Screenshot of Create New User	50
Figure 41: Admin Dashboard Screenshot of Delete User.....	50
Figure 42: Admin Dashboard Screenshot of Genres List	51

Figure 43: Admin Dashboard Screenshot of Publishers List.....	52
Figure 44: Admin Dashboard Screenshot of Adding a New Publisher	52
Figure 45: Admin Dashboard Screenshot of Authors List.....	53
Figure 46: Admin Dashboard Screenshot of Adding New Author.....	54
Figure 47: Admin Dashboard Screenshot of Author Detail Page.....	54
Figure 48: Admin Dashboard Screenshot of Languages List	55
Figure 49: Admin Dashboard Screenshot of Books List	56
Figure 50: Admin Dashboard Screenshot of Adding a New Book.....	57
Figure 51: Admin Dashboard Screenshot of Book's Detail and Update	57
Figure 52: Admin Dashboard Screenshot of Followers List	58
Figure 53: Admin Dashboard Screenshot of Reviews List.....	59
Figure 54: Admin Dashboard Screenshot of Review's Detail.....	59
Figure 55: Admin Dashboard Screenshot of Messages List.....	60
Figure 56: Admin Dashboard Screenshot of Book Requests List	61

List of Tables

Table 1: Test case for User Authentictions.....	27
Table 2: Test case for Admin Login ann KYC Module.....	29
Table 3: System Testing.....	30

Chapter 1: Introduction

1.1. Introduction

Books play one of the important roles in human civilization for spreading knowledge, culture, and entertainment for centuries. They are the medium passed down from generations which shared stories, ideas, and experience. Books educate, inspire, and entertain readers. It often helps readers reach new insight and perspective. It also helped tackle difficult situations in life.

A book is a written or printed work consisting of pages bound together. It often comes with a cover and range of pages from a few pages to a hundred or even more. They come in formats such as paper and digital versions, which provide readers with several options to access the content.

There are a vast number of books available. It has become increasingly difficult for readers to choose quality content books. Here Book review comes into play. Book reviews are nothing, but comments, critics, analysis, and evaluation of a book written by other book readers, professionals from publication houses, scholars, and authors [1].

With the rise of the internet and digital era, book review platforms emerged that made a significant shift in book reviews. Book review platforms are online platforms, space or internet-based applications dedicated to discussing and reviewing books. With online platforms, book reviews were not just limited to critics, authors, or professionals from the publishing house. The book readers were able to share their thoughts, perceptions, review, opinions, rating, and recommendations from the online platform.

Before the book review platform came into existence, authority to write book reviews was held by the professionals, critics, and reviews from the publication houses. However, the emergence of book review platforms opened a major space for user generated content which allowed any users to comment, review, recommend and rate the books. It helped in democratization of reviewing. This shift in book reviews helped give a broad range of perspectives to the readers [2].

Since book review platforms are based on the internet, it helped in creating a community among the readers. Readers can connect with like-minded individuals and join in discussion about the book. These platforms provided a virtual space for readers to share their thoughts and perspectives.

Book review platforms have had a major impact on book sales. High ratings, positive reviews, thoughts, perceptions, and recommendations helped in increasing the sales of books. It also helped in increasing the popularity of the author and the publishing house.

1.2. Problem Statement

In the context of Nepal, the availability of book review platforms is limited. However, these platforms face several challenges, including the following: -

- I. One of the main issues is the lack of a mechanism to verify whether a reviewer is a genuine human or not.
- II. They are not able to search books according to the author or ISBN.
- III. These platforms are yet to provide services to readers like adding books to read list, buy list, reader's profile, and stats.

1.3. Objectives

The system aims to address the current challenges faced by readers by providing effective solutions. The objectives of the system include: -

- I. To permit only KYC-verified users to submit book reviews, and ratings.
- II. To enable authenticated users to request books that are yet to be added to the platform.
- III. To offer users services such as buy list and read list.

1.4. Scope and Limitation

1.4.1. Scope

The system can be used by various book readers where they can give and take feedback. It allows users to create accounts and log in securely. It enables users to rate books using a numeric based system. It allows users to submit reviews for books they've read. It allows users to write and submit textual reviews with their thoughts and opinions. Let users edit or delete their own reviews. Create profiles for users and add profile statistics. This system can handle a growing number of users and reviews without performance issues. It provides administrators with tools to manage users, books, authors, publishers, reviews, and reported content.

1.4.2. Limitations

There are some criteria that may not be fulfilled by our application. Some of such limitations of our project are mentioned below:

- There is no spam filtering mechanism.
- There is no slang word filtering mechanism in reviews.
- There is no Two Factor Authentication (TFA) Mechanism.
- There is no recommendation system to recommend books to users according to their reading history.
- There is no virtual discussion space for users.
- There is no e-commerce integration to sell the books.
- There is no smartphone application version of Book Review Platform.
- There is no real time notification system.

Chapter 2: Background Study and Literature Review

2.1. Background Study

A book review platform is an online space where individuals share their opinions and critiques of books they have read. These platforms have evolved from traditional newspaper and magazine reviews to digital spaces like Goodreads and Amazon, where users can write and publish their reviews, rate books, and engage with a community of readers. Book review platforms serve as a valuable resource for readers seeking book recommendations, authors looking for feedback, and publishers aiming to understand market trends. They promote literary discussion, aid book discovery, and provide a space for critical analysis, contributing significantly to the world of literature and reading culture.

2.2. Literature Review

Book review platform can be traced back to the pre-digital era. Back then, reviews were written by reviewers from the publishing houses and professional critics. The reviews were mainly published in newspapers, magazines, and literary journals. In the early digital era, with the rise of the User Generated Content (UGC) and internet-based book review platforms, the reviews were generalized, and readers got the opportunity to have a broad range of perceptions and thoughts from like-minded individuals or readers. These platforms also helped gain author and publishing houses more popularity and helped in increasing the sales of the book [2]. In the context of Nepal, the book review platform helped democratize the reviews, individuals can share their reviews, give ratings to the books, provide the author's profile, and follow the authors.

In Nepal, there are currently only a handful of publicly available book review platforms. One of them is “Nepali Expert”. It is a popular platform where users can write reviews and give ratings to the book.

Pros of Nepali Expert Website

- Users can add reviews and ratings to books.
- Users can view books list according to genre and awards.
- Users can give likes to the book.
- Users can follow other users.

Cons of Nepali Expert Website

- Any user can add a book directly without anyone's concern.

- The same user can give more than one review in the same book.
- No user profile except for editing email and password.
- No information on username after creating the account.
- No mechanism to verify the origin of the user.
- There is no information on how to contact the administrator.
- It only searches according to book name.

Chapter 3: System Analysis

3.1. System Analysis

3.1.1. Requirement Analysis

A. Functional Requirements

a) For Administrator

- The system should allow admin to login and logout from the system.
- The system should allow admin to (CRUD) create, read, update, and delete information of users.
- The system should allow the admin to (CRUD) create, read, update, and delete books, authors, publishers, genres, and languages.
- The system should allow the admin to read and delete reviews.
- The system should allow the admin to validate user's KYC (Know Your Customer).
- The system should allow the admin to view the list of new book requests from the user.
- The system should allow the admin to view messages.

b) For Readers/Users

- The system should enable users to create their user accounts.
- The system should enable users to update their details for KYC (Know Your Customer)
- The system should allow users to login using their username and password.
- The system should allow users to delete their account.
- The system should allow validated users to add reviews and ratings to the book.
- The system should allow users to add books to their read list and buy list.
- The system should have user-friendly UI/UX.
- The system should allow users to search books based upon book name, author, publication house and ISBN.

B. Non-Functional Requirements

I. Security

Only authorized users and admin are allowed to access the data. The system must use a username and password to login. The system uses at least 8 - 20 characters password for security. For every change to the database such as adding books, deleting books, adding reviews and so on, the system uses different validations.

II. Performance

The performance of the system is optimized to make it fast and accurate as the database is normalized.

3.1.2. Feasibility Analysis

I. Technical Analysis

This system is technically feasible. The required hardware and software for development and implementation of this system is available. The programming languages and its libraries are readily available and can achieve the desired result and target.

II. Operational Analysis

To use this system, a basic computer and internet operation knowledge is required. No additional manpower is required except the administrator. Users can also easily operate it as this system is user-friendly with good User Interface and User Experience. This system includes all the basic requirements for the book review system as well as the user's personal experience.

III. Economic Analysis

All the programming languages, tools and resources required are free and open source. No additional hardware and software required after the completion of the system. Thus, this system is economically feasible and cost-effective.

IV. Schedule Analysis

This system is completed within scheduled time and does not exceed the scheduled time.

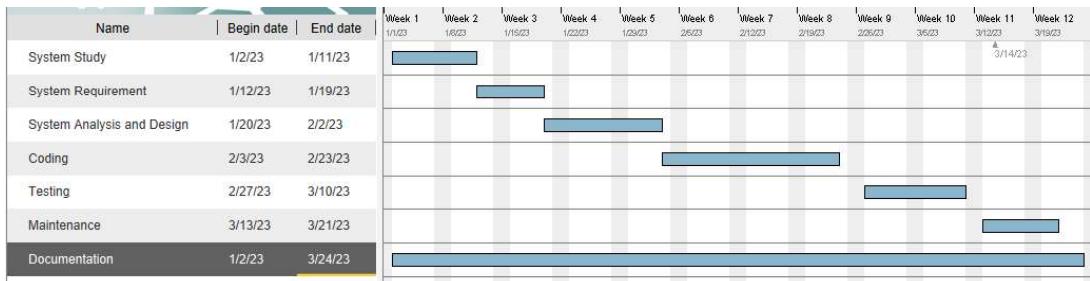


Figure 1: Gantt Chart

3.1.3. Data Modeling (Entity-Relationship Diagram (ERD))

An Entity-Relationship Diagram is a visual representation that helps in modeling data requirements of this system. It allows us to define and organize the data entities that need to be stored in the database.

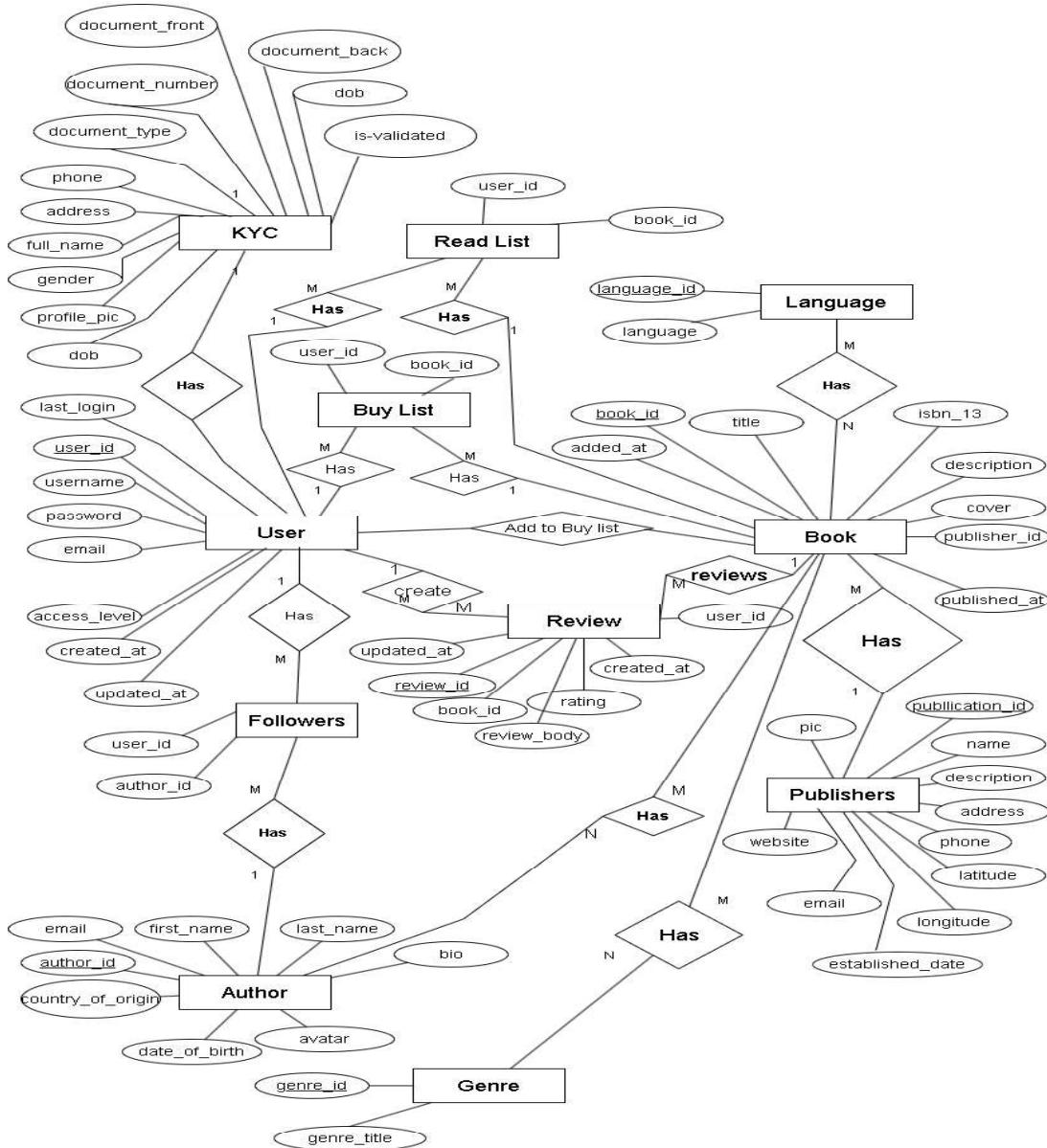


Figure 2: Entity-Relationship Diagram of Book Review Platform

3.1.4. Process Modeling

Data Flow Diagram (DFD) of Book Review Platform consists of one level DFD and two level DFD. Both diagrams show how the data flows inside the system.

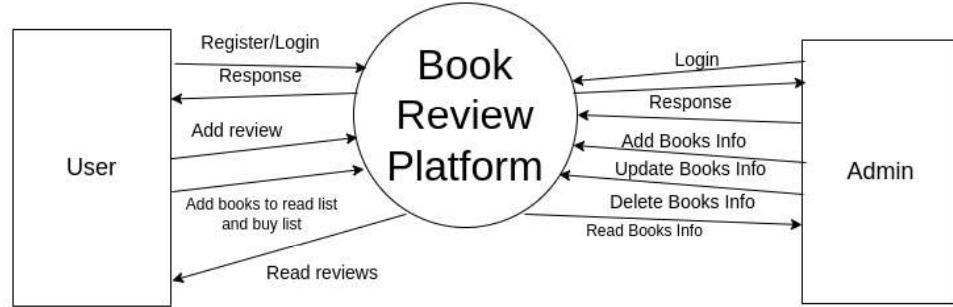


Figure 3: DFD Level 0

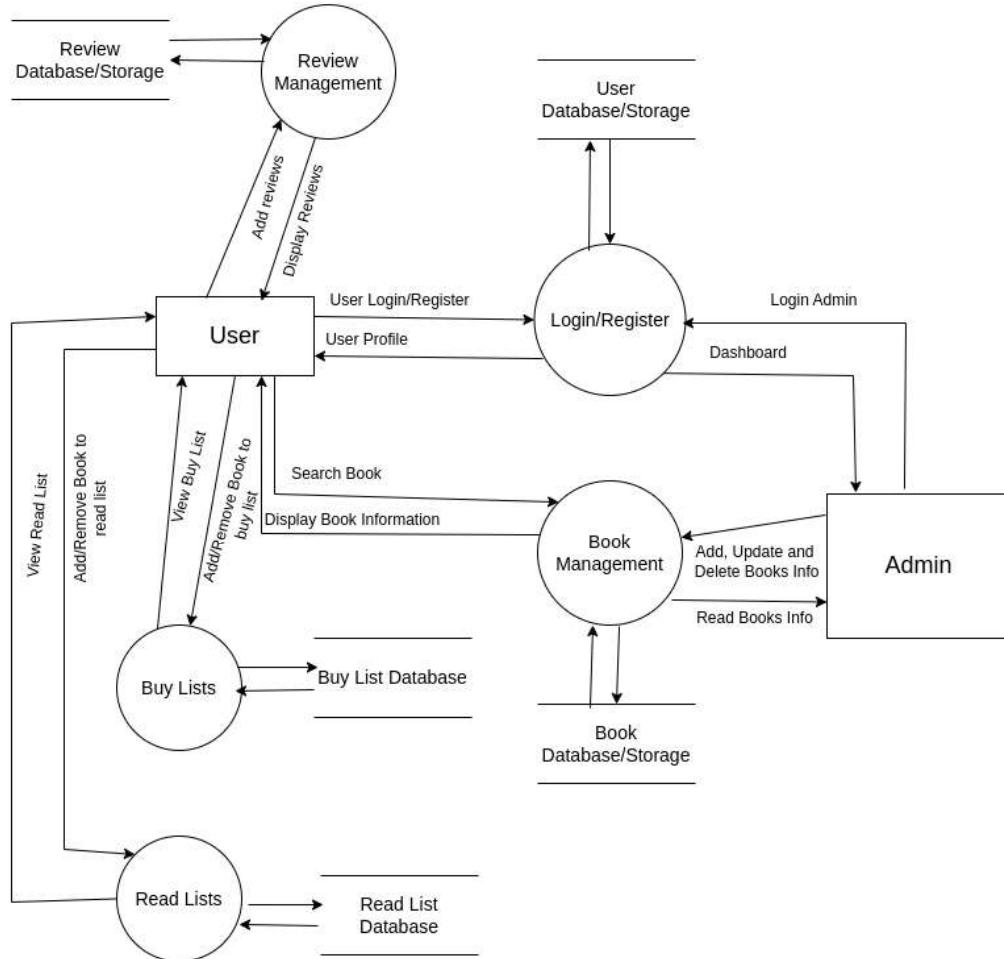


Figure 4: DFD Level 1

3.2. System Design

3.2.1 Architectural Design

Three Tier Architecture design is used to create this system. This system includes a user interface, a cache, a web server, and a database.

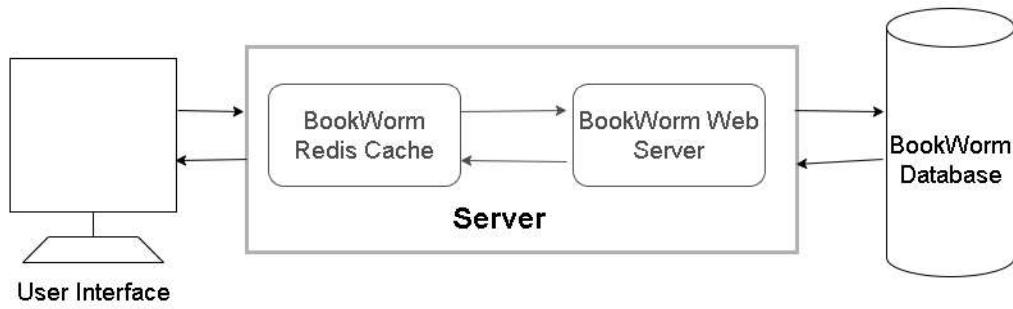


Figure 5: Architecture Design

a) User Interface

- Handles user interactions and input.
- Presents data to users in a user-friendly format.
- Collects user input and sends requests to the application server.

b) Server

- Manages application logic and business processes.
- Acts as an intermediary between the user interface and the database.
- Handles user requests, processes data, and communicates with other layers.

c) Database

- Stores application data in a reliable and scalable way.
- Supports CRUD (Create, Read, Update, Delete) operations for application data.

3.2.3. Database Schema Design



Figure 6: Database Schema Part 1



Figure 7: Database Schema Part 2

3.2.3. Interface Design (UI Interface)

Interface Design is the design of how this system Book Review Platform looks like.

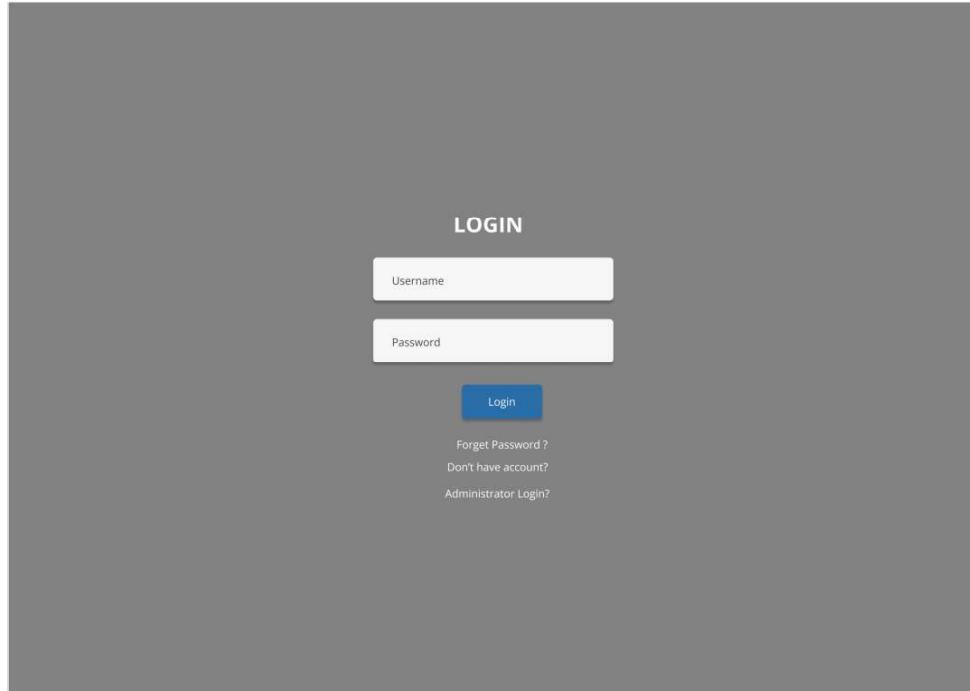


Figure 8: UI Design Login

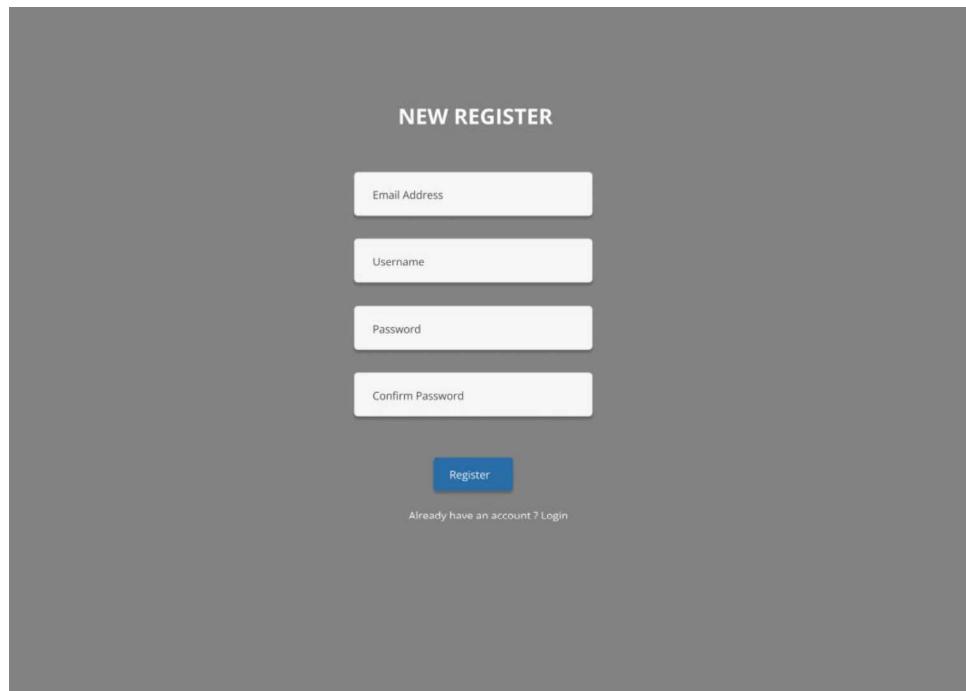


Figure 9: UI Design Register

ALL USERS						
ID	FULL NAME	USERNAME	LEVEL	VALIDATED	CREATED BY	ACTION
01	Binod Waiba Tamang	iambinod	09	YES	1 day ago	
01	Binod Waiba Tamang	iambinod	09	YES	1 day ago	
01	Binod Waiba Tamang	iambinod	09	YES	1 day ago	

PREVIOUS 1 2 3 4 NEXT

Figure 10: UI Design Admin User Dashboard

CREATE A NEW USER						
<input type="text" value="Username"/> <input type="text" value="Email"/> <input type="password" value="Password"/>						
<input type="button" value="CREATE"/> <input type="button" value="CANCEL"/>						

Figure 11: UI Design Admin Dashboard User Create

BookWorm Admin

PUBLIC SITE ADMIN LOGOUT

ALL GENRES

ADD NEW GENRE ADD

ID	TITLE	ACTION
01	Fantasy	
01	Horror	
01	Romance	
01	Fantasy	

USERS GENRES BOOKS AUTHOR PUBLICATION HOUSE REVIEW BUY LIST READ LIST FOLLOWERS

The screenshot shows the 'Genres' section of the BookWorm Admin dashboard. On the left is a sidebar with navigation links: USERS, GENRES (which is highlighted in teal), BOOKS, AUTHOR, PUBLICATION HOUSE, REVIEW, BUY LIST, READ LIST, and FOLLOWERS. The main area is titled 'ALL GENRES' and contains a table with four rows of genre data. Each row includes an ID (01), a title (Fantasy, Horror, Romance, Fantasy), and an 'ACTION' column with an edit icon. A button at the top right says 'ADD NEW GENRE' and another says 'ADD'. At the bottom of the page, there are links for PUBLIC SITE, ADMIN, and LOGOUT.

Figure 12: UI Design Admin Dashboard Genres

BookWorm Admin

PUBLIC SITE ADMIN LOGOUT

ALL GENRES

ADD NEW GENRE ADD

ID	TITLE	ACTION
01	Fantasy	

DETAIL

Fantasy

CANCEL UPDATE

USERS GENRES BOOKS AUTHOR PUBLICATION HOUSE REVIEW BUY LIST READ LIST FOLLOWERS

The screenshot shows the same 'Genres' list as Figure 12, but with a modal window overlaid on the 'Fantasy' row. The modal has a title 'DETAIL' and a single input field containing 'Fantasy'. At the bottom of the modal are two buttons: 'CANCEL' (green) and 'UPDATE' (red). The background of the page is dimmed to indicate an active modal.

Figure 13: UI Design Admin Dashboard Genre Detail and Update

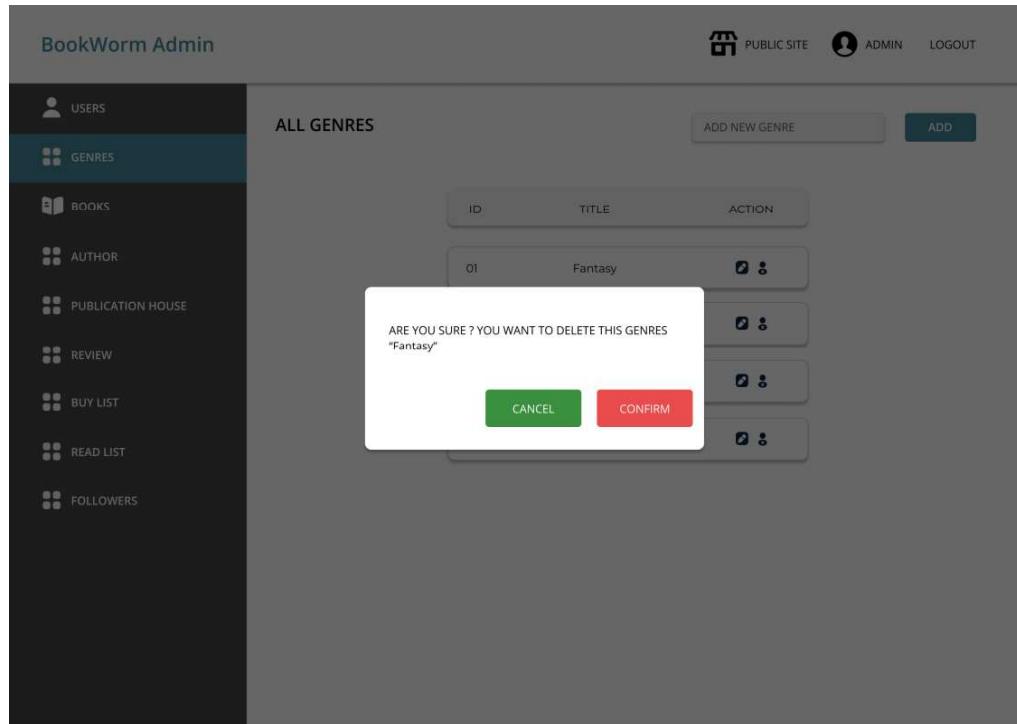


Figure 14: UI Design Admin Dashboard Genre Delete

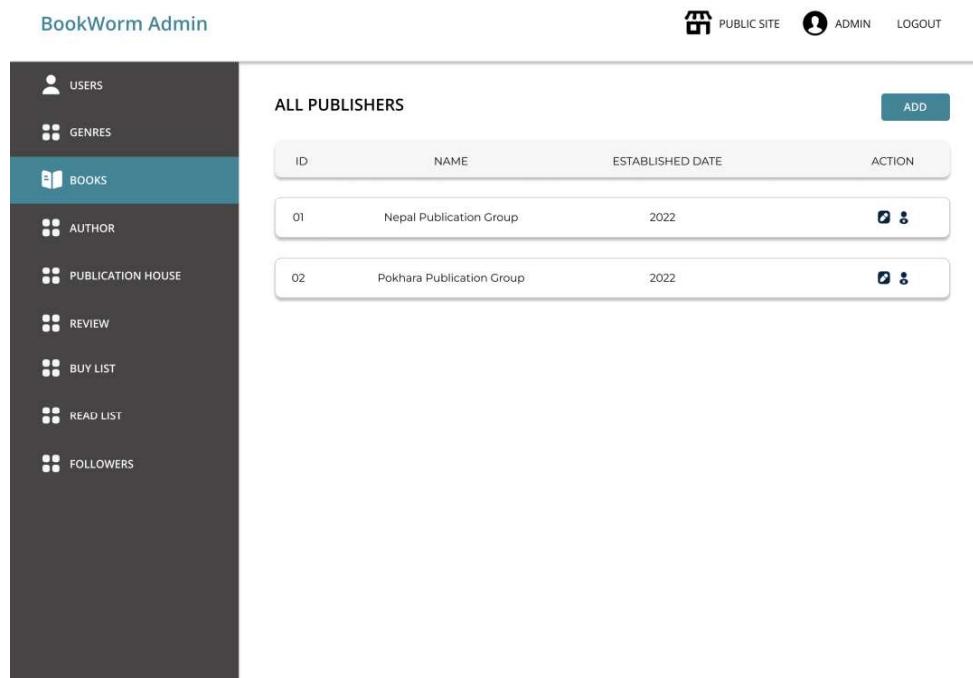


Figure 15: UI Design Admin Dashboard Publishers List

3.2.4. Physical Data Flow Diagram

A physical data flow diagram is a visual representation that shows how data flows between the system components. For this system, the physical data flow diagram is illustrated below:

- For End User

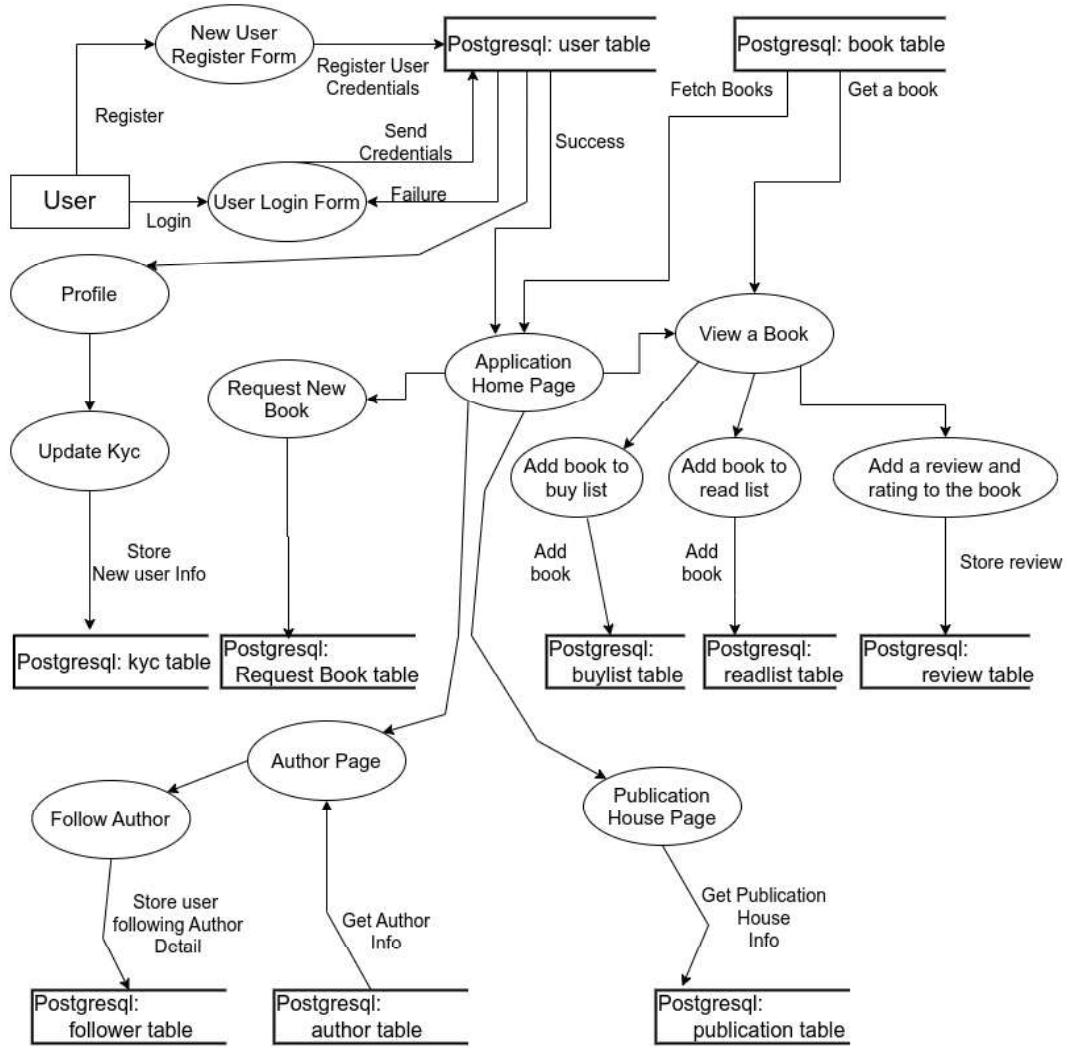


Figure 16: Physical DFD of End User

- Physical Data Flow Diagram of admin

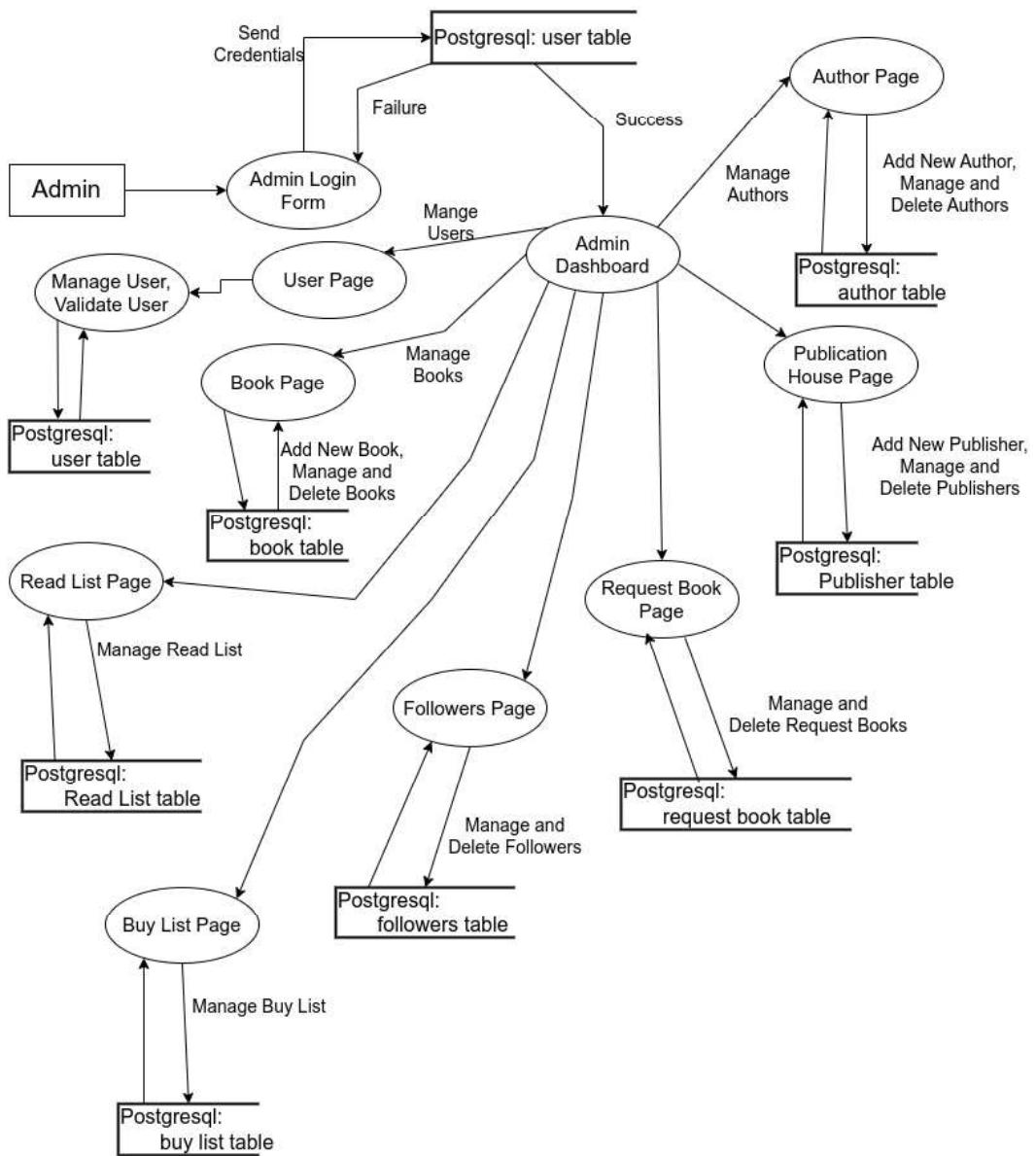


Figure 17: Physical DFD of Admin

Chapter 4: Implementation and Testing

4.1. Implementation

4.1.1. Tools Used

The tools used in the process of creating this system are as follows:

I. Front-End Tools

A. HyperText Markup Language (HTML)

In Book Review Platform, HTML is used for creating the skeleton of different web pages and sites. It is used to create sections, headings, links, paragraphs, image sections and so on.

B. Cascading Style Sheet (CSS)

CSS is used to design different tags and elements of HTML. By using CSS, we can control the font style, font size, text color, space between characters, image properties, and so on.

C. JavaScript

In Book Review Platform, JavaScript is used for making dynamic, interactive, and responsive web pages.

II. Back-End Tools

A. Go-Lang

In Book Review Platform, Go-Lang is used as a server-side language. It was created by Google. It is used for server-side communication with the purpose of connecting and communicating with databases, encrypting the data, validating user authentication, authorizations and performing Create, Read, Update and Delete (CRUD) operations.

III. Server

A. Nginx

In Book Review Platform, nginx is used as a reverse proxy to run the web server.

IV. Database

A. PostgreSQL

PostgreSQL is one of the most popular open-source relational databases. This system, Book Review Platform, uses PostgreSQL as its main database to store and manage data.

V. Documentation Tools

A. Draw.io

It is an online system design tool. It is used to create architectural design, Entity-Relation Diagram, User Case Designs and so on.

B. Dbdiagram.io

It is an online database schema design tool and is used to create the database schema for Book Review Platform.

C. Figma

It is an online UI/UX design tool.

4.1.2. Implementation Details of Modules

Details of different modules of this system are described below:

A. Admin Modules

a. Admin User Module

This module can manage the users and their details. It also allows admin to add, edit, update, and delete user accounts or details. The admin allows the validation of user origin using KYC (Know Your Customer) detail provided by the user. By clicking the user button, admin can view the list of users. Likewise, admin can add a new user by clicking the add button, delete the user by clicking the delete button and update the user detail by clicking the update button. Admin can also use the search function to find the user using username or email of the user.

b. Admin Genre Module

In this module, admin can manage the genres. Admin can add new genre type by clicking add genre button. Likewise, admin can delete the current genre or update the existing genre by clicking delete or update respectively.

c. Admin Language Module

Admin can manage the languages in this module. Admin can add a new type of language, delete, or update existing languages in the system.

d. Admin Publisher Module

Admin can manage the publishers and its details. They can add a new publisher. They can also edit the details of existing publishers or delete the publisher. They can also find the publisher by searching with publisher

name, address, email, or website address instead of scrolling among hundreds or thousands of publishers.

e. Admin Author Module

Admin can manage the authors and their details. By clicking the author button, admin can view the list of authors. They can update or edit the details of existing authors or delete them. They can also add a new author. They can search for a specific author by their first or last names.

f. Admin Book Module

Admin can manage the books in the platform. They can add a new Book, delete a book, and edit book details. They can view the list of books. They can also search books using book title, description, or ISBN number.

g. Admin Review Module

Admin can manage the reviews of the book. They can view the list of reviews by clicking the review button. They can add, edit, and delete reviews. They can filter the reviews using the book name or the username.

h. Admin Contact Module

Admin can view the list of messages sent by the end user. They can view message details or delete them.

i. Admin Request Books Module

In this module, admin can view the list of requests to add books, sent by the authenticated users. Admin can delete the request and accept the request. After the book is added, an email is sent to the requester, telling them that the book has been added.

j. Admin Login Module

In this module, admin can login to the system. Admins can use their username and password to login to the system. They are directed to the admin dashboard. If non admin user tries, then they are denied access to the system.

B. User Module

a. User Authentication Module

Within this module, a user can register a new account in the system by giving details such as name, username, email, and password. Furthermore, users can login to the system using the username and email. This module also checks for existing username or email while registering. If a username

or email exists, it will return an error message. It also checks for strong passwords such as length, uppercase, lowercase, number, and special characters. If a redundancy is detected, this module prompts an error message as well as a strong password guide.

b. Forget Password Module

This module lets a user reset their password if they forget it. Users can reset the password using their email address. A token and a link are sent to the given email address. They can use the token and a reset link to reset the password.

c. KYC (Know Your Customer) Module

The KYC module in the system is designed to verify the user's identity and origin. Users are required to provide comprehensive information to establish their identity. This includes personal details, proof of identity, address, and other relevant documents. The verification process acts as a safeguard, ensuring only KYC verified user can gain access to full set of services provided by the system. Without verification, users can only access limited features of the system.

d. Request a Book Module

This module lets the user request admin to add books to the platform. Users must send the book title and author. These modules also send an email message to admin about the book request.

e. Books Module

This module manages the books and services provided to the user. It will let users view the list of books in the platform. Users can also view the details of books. The detail consists of book title, authors, publisher, pages and so on. Users can view the reviews posted by other users about the book. Only KYC verified users can post a new review, edit their own review, or delete their review. A user can post only one review to a book.

Also, users can use the search function to search the books in the platform using title name or ISBN number.

f. Author Module

This module manages the list and details of the author. Users can view the list of authors. They can also view the author's details and books they have written.

g. Contact Module

With this module, any user can send message and content to the admin.

h. Author Follow Module

This module lets the user follow the authors. In the author detail page, user can click follow button to follow the user.

i. Read List Module

This module lets the user add a book to their reading list. In the book detail page, users can click the add to read list button. This module also shows the list of books that the user added.

j. Buy List Module

This module lets the user add a book to their buying list. This module also shows the list of books that the user added.

k. Profile Module

This module shows the profile statistics of the user, allows the user to upload a profile picture and provides an interface for updating the KYC. It displays the user profile details including the joining date, last updated date, and last login. And lastly the profile provides statistics such as total number of authors that user is following, total books in read list and buy list.

4.2. Testing

Testing refers to the process of evaluating the system or a software application to identify the bugs, defects, and vulnerabilities to ensure that it meets the specified requirements and verify it is working correctly. Its primary goal is to ensure the quality and reliability of the software before it is deployed for production. The testing is carried out over and over in the development phase.

4.2.1. Unit Testing

Unit testing is a testing technique where individual components or the modules of the system are tested to ensure they work as intended. The term “unit” refers to the smallest testable component of the system such as functions or methods. The primary objective of unit testing is to validate each of the units of the system performs as they are expected and catch bugs or defects as much as possible from the early stage of development. The unit test performed for this system are as follows:

A. Test Cases of User Authentications

S.N.	Test Name	Test Description	Input	Excepted Output	Actual Output	Result
1	Black User Registration Form Submission	In the user registration page, the form is submitted without filling it up. As a result, it should provide an error message for every field.	Register button is clicked in the user register page.	Display error message message “This field cannot be blank” in respective fields.	The error message ‘This field cannot be blank’ was displayed below every field of the form in user register page.	Pass
2	Check for existing user.	When an existing username or email address is filled in the user registration form it should display respective error message below the respective fields.	Email Address: ishan@gmail.com m Username: ishanshrestha Password: Test@123 Confirm Password: Test@123	Below the email address and username fields, the error message should be displayed as “This email already exists” and “This username already	An error message was displayed	Pass

				exists” respectively.		
3	Check for strong password	This system has enforced a strong password validation mechanism. The rules of strong password in this system are that a password must contain at least 8 characters, one uppercase, one lowercase, one number and one special character.	Email Address: ishan1@gmail.com Username: ishanshrestha1 Password: Test1234 Confirm Password: Test1234	An error message “This field must have at least special characters” was displayed below the password field.	An error message “This field must have at least special characters” was displayed below the password field.	Pass
4	Successful User Register	Register a user successfully .	Email Address: ishan12@gmail.com Username: ishanshrestha12	Redirects to the login page and display a flash	User Registered with no errors and redirects to	Pass

			Password: Test@123 Confirm Password: Test@1234	message “User Registration Successful.”	the login page and displayed a flash message “User Registration Successful.”	
--	--	--	--	--	---	--

Table 1: Test case for User Authentictions

B. Admin Login and KYC Module

S. N.	Test Name	Test Descripti on	Input	Excepted Output	Actual Output	Resu lt
1	Admin Login Unsuccess ful.	When non admin user tries to login in admin login page, it should display an error message.	Username: ishanshresh tha Password: Test@123	It should display an error message “Invalid admin username/password” below the username and password field.	Admin login page displayed an error “Invalid admin username/password” below the username and password when a non admin user tries to login using their account.	Pass
2	Admin Login Successful	Redirects to admin page when	Username: admin	Admin user login to system using admin credentials in login page with	Admin users use the admin credentials in admin login	Pass

		login is successful.	Password: Admin@123	admin credentials and is redirected to the admin page.	page and was redirected to the admin dashboard.	
3	Update User Profile Picture without Picture.	This test is about a user clicking the profile picture upload button without uploadin g the picture.	A user clicks on the upload button without selecting any picture.	The page should display an error message “Please Add a picture to upload” was displayed when user clicked the Update Profile Button.	An error message “Please Add a picture to upload” was displayed when user clicked the Update Profile Button.	Pass
4	KYC verified user writes review to a book.	A user opens book detail page gives a rating and a review to it.	Rating: 4.5 Review: This book is a good one.	The user opens the book detail page and clicks on the review button. Then give the book a rating and a review. A flash message “Review/Rating added Successful” should be displayed. The	The user opened the book detail page and gave rating and review. A flash message “Review/Rating added Successful” was displayed. In the book detail page, the review and rating were	Pass

				review and rating that the user given should be displayed in the review section of the book.	displayed in the review section.	
--	--	--	--	--	----------------------------------	--

Table 2: Test case for Admin Login and KYC Module

4.2.2. System Testing

System testing is one of the important tests in software development, where the entire system is tested. Its primary goal is to identify any defects or issues before the release of the system to the user. The system test cases performed for this system are as follows:

S.N.	Test Name	Test Description	Input	Expected Output	Actual Output	Result
1	Confirmation email after User Registration	Ensure that users can successfully register on the platform and an email is sent to the user.	User provides valid registration details (name, email, password).	User is expected to register successfully and receives a confirmation email.	Users registered successfully, and a confirmation email was received.	Pass
2	Verify Forgot Password Functionality	Ensure that users can reset their password using the "Forgot Password" feature.	User clicks on the "Forgot Password" link and provides the registered	The user receives a password reset link and a token via email.	The user received a password reset link and a token via email.	Pass

			email address.	link and token to set a new password.	link and token to set a new password.	
3	Verify Book List Display	Ensure that users can view a list of books on the platform.	User navigates to the book list page.	List of books is displayed with pagination. Each book entry includes details such as title, and cover page.	The list of books was presented with pagination, where each book entry included details such as the title, author, and rating.	Pass
4	Verify Adding Book Review	Ensure that users can give reviews and ratings for books.	User selects a book and provides a review with a rating.	Review is added successfully. The overall rating for the book is updated. Review must be displayed in the review section of the book.	Review was added successfully and was displayed in the review section of the book. The overall rating for the book was updated.	Pass

Table 3: System Testing

Chapter 5: Conclusion and Future Recommendations

5.1. Lesson Learnt / Outcome

Embarking on the development journey of our system “Book Review Platform” using Golang for the server-side operations, PostgreSQL for database management and HTML, CSS, and JavaScript for the frontend was a massive learning experience in navigating multiple technology stacks. The collective decision-making process around our technology choices yielded a well round and effective stack that not only met our immediate needs but also laid a solid foundation for future scalability for future scalability and development. The dynamic nature of Golang proved to be the key contributor to efficient server-side development, with its strong built-in concurrency feature and performance providing a robust backend infrastructure.

Our development with Golang brought to light the importance of language simplicity and readability in coding. The statically typed nature and concise syntax of Golang resulted in cleaner code and minimized bugs. Code reviews and a consistent coding style emerged as integral practices that elevated our collective coding standard.

On the front end, the choice of traditional web technologies HTML, CSS, and JavaScript proved to be a well-judged decision. This selection provided a familiar and accessible platform for all team members, even those with less experience in front-end development. There are more advanced frameworks that exist, while this decision prioritized a smooth learning curve and rapid development, aligning with the team’s expertise and project requirements.

As a team, we effectively managed project tasks through thoughtful project management. With clear communication, we assigned roles, ensuring each team member’s strength was utilized to the fullest. Team meetings on a regular basis facilitated a greater understanding of project progress, challenges, and upcoming tasks.

5.2. Conclusion

To sum it up, building our “Book Review Platform” was a learning adventure. It has been a rewarding experience marked by strategic technological decisions and effective collaboration. The selection of technologies like Golang for server-side and traditional web

tools for frontend, has provided a robust and scalable foundation. The implementation of well-defined roles and communication within the team has played a pivotal role in project success. We have gained valuable insights, particularly in managing our database and coding collaboratively. This project not only met our goals but also contributed to our growth as developers.

5.3. Future Recommendations

In consideration of the future trajectory of our “Book Review Platform”, we propose a set of recommendations aimed at enhancing user satisfaction and elevating platform functionality. One promising road is the implementation of the advanced recommendation engine, providing users with personalized book suggestions based on their preferences and reading history. This approach not only enhances user engagement but also contributes to a more fulfilling and user-centric platform. Additionally, expanding the social aspect of the platform introducing features like book discussion forums or user-created reading groups that could foster a strong sense of community among the users. Implementing a real time notification system to keep users informed about the new book releases, author updates, or responses to their review would add a dynamic element to their interaction with the platform. Lastly, continuous monitoring of user feedback and analytics will be vital in identifying areas for improvement and adapting the platform to evolving user needs, ensuring its long-term relevance and success.

Appendix

Screenshot

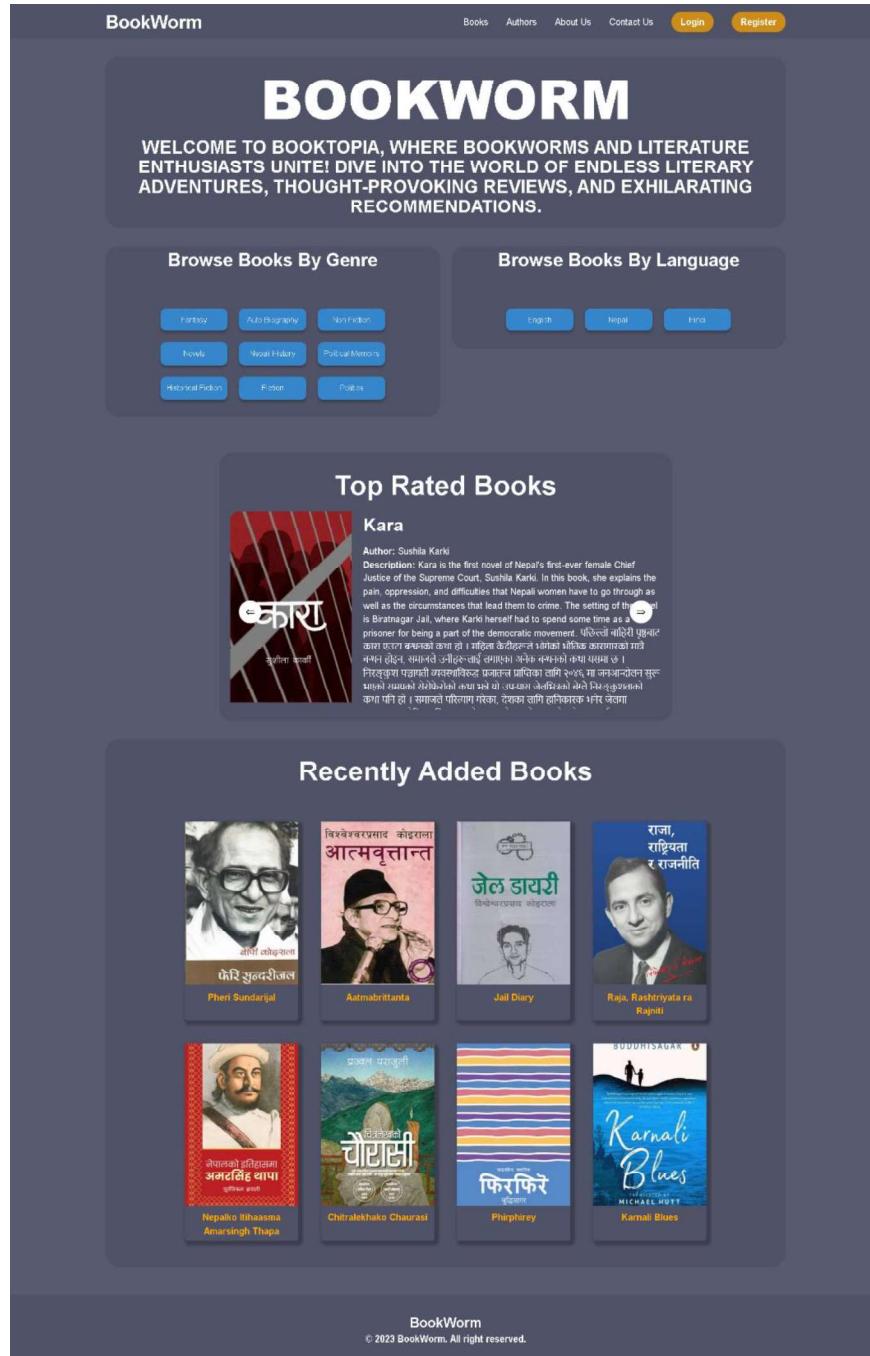


Figure 18: Screenshot of Home Page

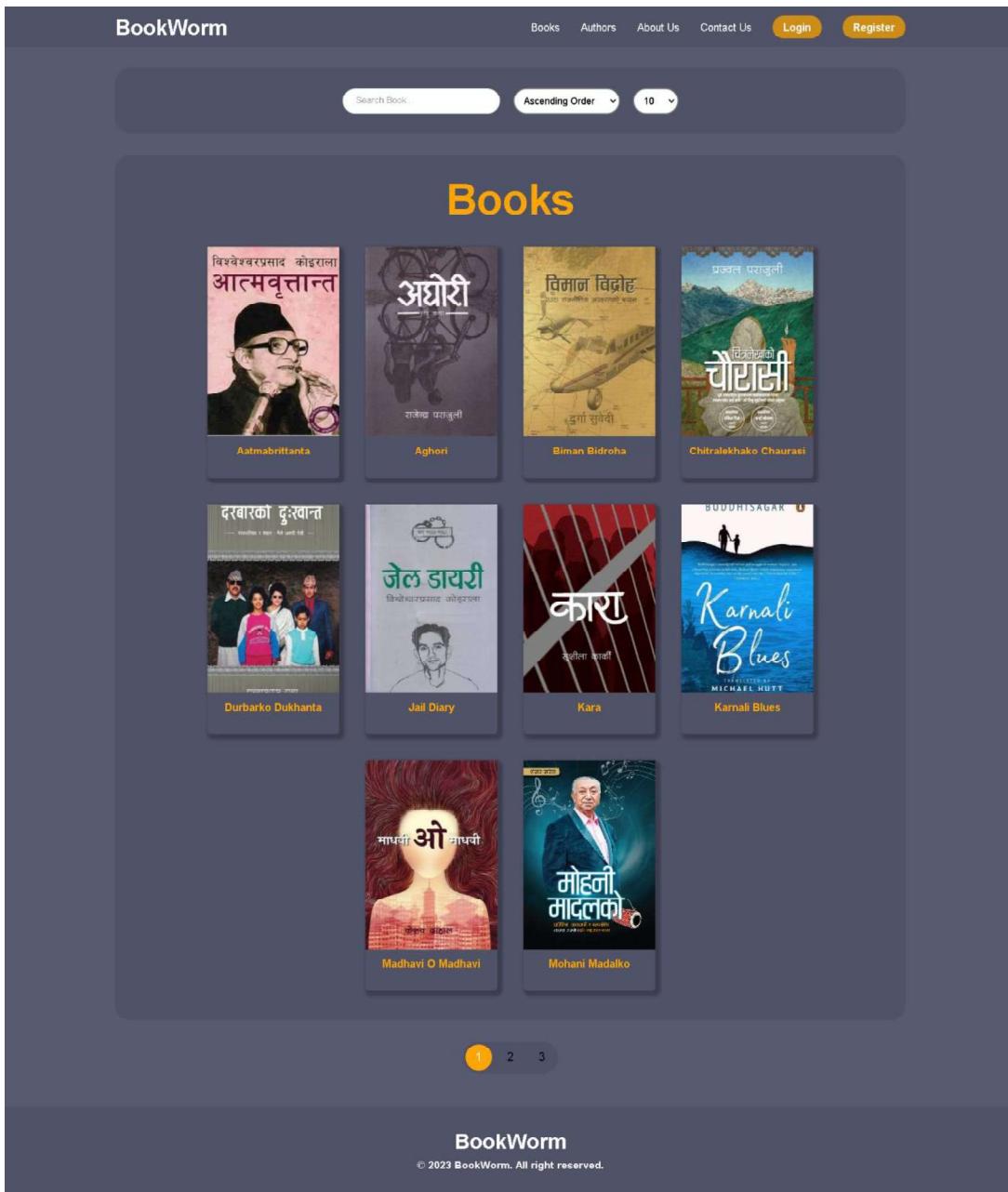


Figure 19: Screenshot of Books List

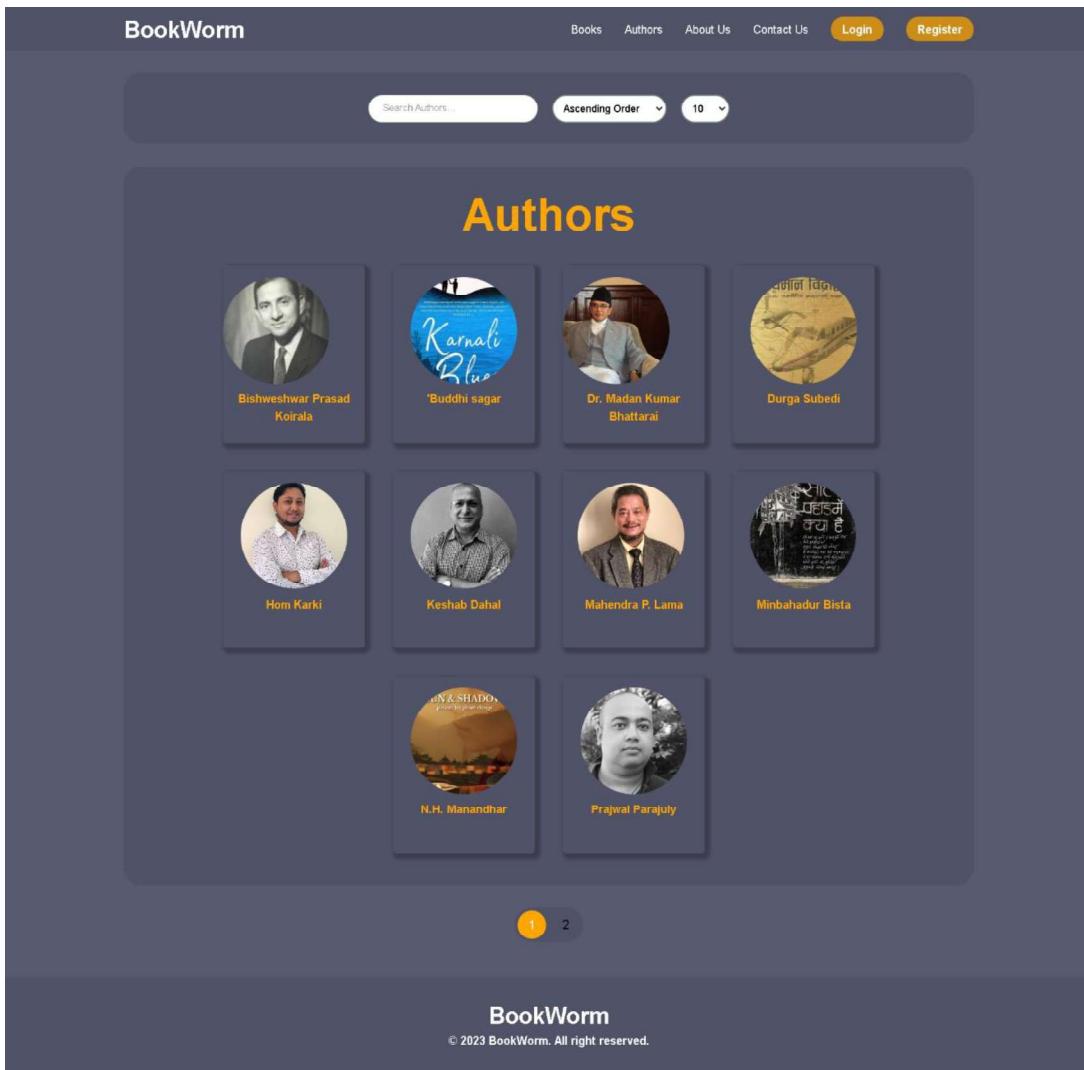


Figure 20: Screenshot of Authors List

The screenshot shows the 'Contact Us' page of the BookWorm website. At the top, there is a navigation bar with links for Books, Authors, About Us, Contact Us, Login, and Register. The main content area has a dark blue background with a light blue rounded rectangle containing the form fields. The title 'Contact Us' is at the top of the form. Below it are six input fields with labels: 'First Name:', 'Last Name:', 'Email:', 'Phone:', 'Subject:', and 'Message:'. A 'Send' button is located at the bottom of the form.

BookWorm

Books Authors About Us Contact Us Login Register

Contact Us

First Name:

Last Name:

Email:

Phone:

Subject:

Message:

Send

BookWorm
© 2023 BookWorm. All right reserved.

Figure 21: Screenshot of Contact Us Page

The screenshot shows the 'Login' page of the BookWorm website. At the top, there is a navigation bar with links for Books, Authors, About Us, Contact Us, Login, and Register. The main content area has a dark blue background with a light blue rounded rectangle containing the login form. The title 'Login' is at the top of the form. Below it are two input fields: 'Username' and 'Password'. A 'Login' button is positioned below the password field. Below the button are three links: 'Forgot Password?', 'Don't have account?', and 'Administrator Login?'. A copyright notice is at the bottom of the page.

BookWorm

Books Authors About Us Contact Us Login Register

Login

Username

Password

Login

Forgot Password?

Don't have account?

Administrator Login?

BookWorm
© 2023 BookWorm. All right reserved.

Figure 22: Screenshot of Login Page

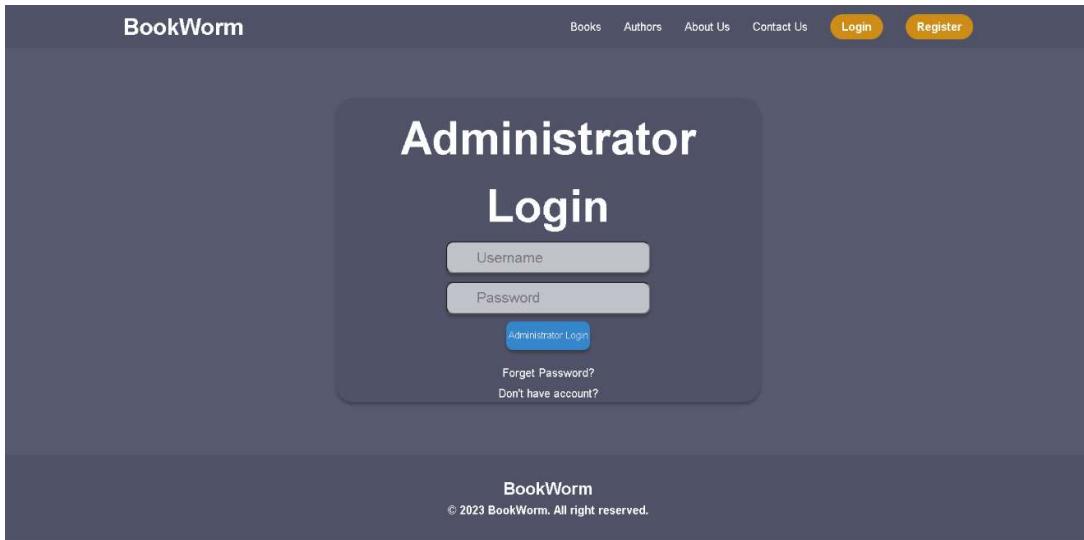


Figure 23: Screenshot of Administrator Login Page

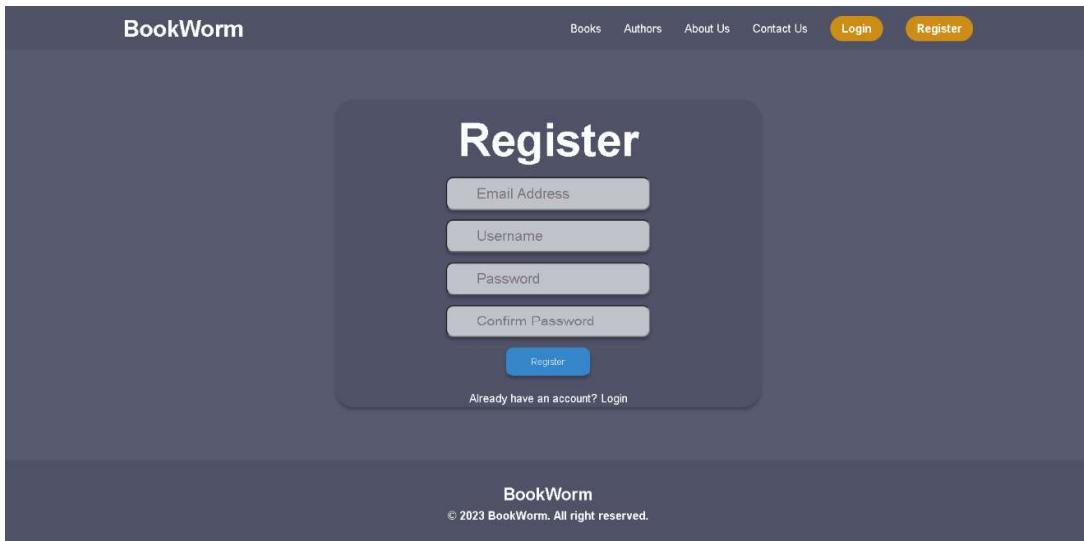


Figure 24: Screenshot of New User Registration

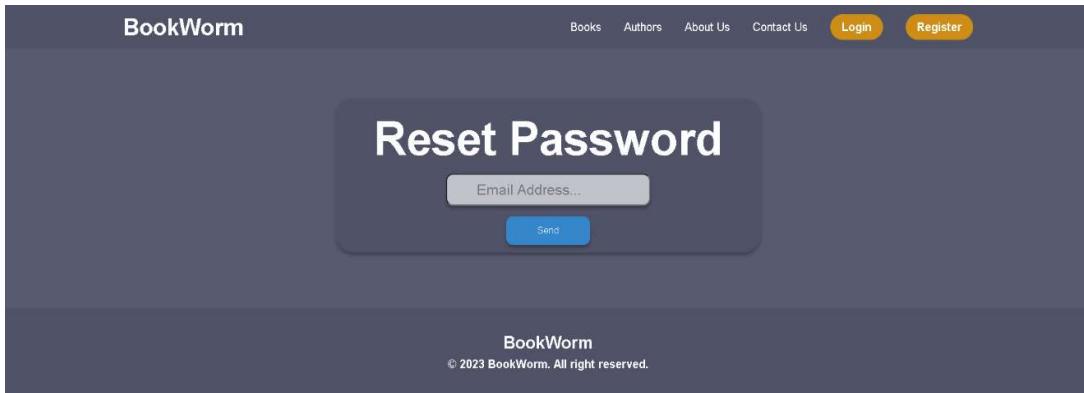


Figure 25: Screenshot of Reset Password Page

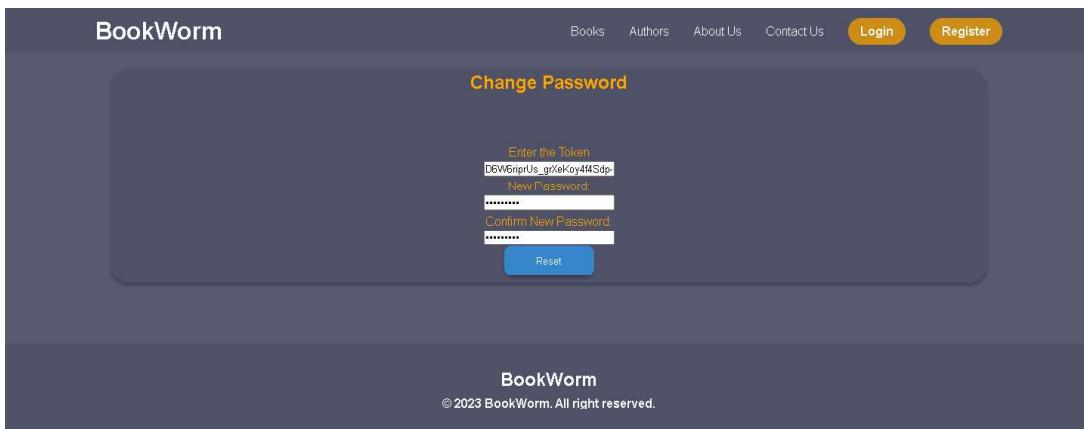
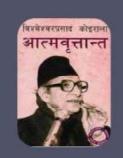


Figure 26: Screenshot of Changing Password

BookWorm

Books Authors About Us Contact Us [Login](#) [Register](#)



Aatmabrittanta

Authors: Bishweshwar Prasad Koirala
Genres: Politics
Languages Available: Nepali
Description:
Writer, thinker, statesman and humanitarian, B.P. Koirala was a Nepali to be proud of. He fought for Indian independence and then turned homeward to fight the Rana regime. As the towering figure of the post-Rana era, he gave momentum to Nepal's entry into modern times. His many years of imprisonment (in British India and, later, in a Nepal ruled by the king) and exile gave BP's career the poignancy of unfulfilled expectations. Even as he has been elevated to the status of political icon, BP's life and aspirations are little understood. Here, at last, in his own words, is what BP had to say—spoken with clarity and conviction into a microphone in his dying days.
ISBN: 9789993312024
Pages: 450
Published Date: 2000-11-29
Published By: Kitab Publishers
Average Rating: 0
Book Added: 2023-12-11
Last Updated: 2023-12-11

[Reviews](#) [Write a Review](#)

BookWorm
© 2023 BookWorm. All right reserved.

Figure 27: Screenshot of Book Detail Page

BookWorm

Books Authors About Us Contact Us [Login](#) [Register](#)



Bishweshwar Prasad Koirala

Bio:

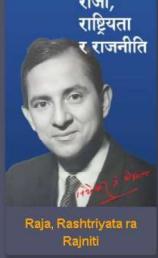
बिश्वेश्वर प्रसाद कोइराला नेपालका प्रथम जन निवाचित प्रधानमन्त्री तथा नेपाली हिन्दू भाषाका साहित्यकार थिए। उनले आम्नो जीवनको लागो समयसम्म नेपाली कास्टेसको लेहुङ्क, सन १९५९ देखि १९६० त्रिम्ब सेपालको प्रधानमन्त्री, र नेपालमा उत्तरव खालिका गर्नेको लागि राजनीतिक नेतृत्व पदाम गरे। नेपाली भाषा साहित्यमात्रा उत्तर मनोविज्ञानिक काव्यहरूको नवीन प्रयोग गरे। (Bishweshwar Prasad Koirala (6 September 1914 – 21 July 1982) was a Nepali politician and a prolific writer. He was the Prime Minister of Nepal from 1959 to 1960. He led the Nepali Congress, a social democratic political party. Koirala was the first democratically elected and 22nd Prime Minister of Nepal. He held the office for 18 months before being deposed and imprisoned at the instruction of King Mahendra. The rest of his life was spent largely in prison or exile and in steadily deteriorating health. Widely regarded as one of the greatest political personalities of Nepal, Koirala was a staunch supporter of democracy. He asserted that guarantees of individual liberty and civil and political rights alone were not sufficient in a poor country like Nepal; democratic socialism was the solution to Nepal's underdevelopment.)

Date Of Birth: 1959

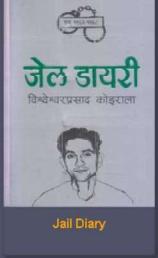
Email:

Country of Origin: Nepal

Books Written by Author



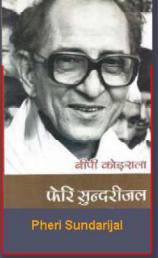
Raja, Rashtriyata
ra Rajniti



Jail Diary



Aatmabrittanta



Pheri Sundarijal

BookWorm
© 2023 BookWorm. All right reserved.

Figure 28: Screenshot of Author Detail Page

BookWorm

Books Authors About Us Contact Us [Login](#) [Register](#)



Kathalaya Inc.

Description:

Kathalaya Inc. Kathalaya is an independent publishing company based in Kathmandu, Nepal. Established in 2007, Kathalaya's focus was on publishing quality children's Nepali books in Nepali, English and other regional languages. Today, it has grown to publish popular literature and youth-centric books for adults and young adults under the imprint named "WeRead". Besides publishing, Kathalaya is also engaged in implementing various programmes aimed to promote reading culture and habit among children in the country. These programmes include library development and reading activity packages for government and private schools. The books published by Kathalaya not only contain quality writing and illustrations, but more importantly are categorized according to age, grade and reading levels, which are essential tools needed to address reading skill issues of primary grade children. Today, Kathalaya has published more than 350 picture books for children ranging from stories, fact books, rhymes to encyclopedias and series books. To further promote reading culture in Nepal and Nepali language, literature and writers all over the world, Kathalaya has released Nepal's first e-book reader application called "WeRead App" featuring books by Nepali writers and publishers.

Address: Kathalaya Inc., (The House of Stories) Ram Niwas, Kumari Colony, Parbat Marga, Thapathali - 11, Kathmandu, Nepal

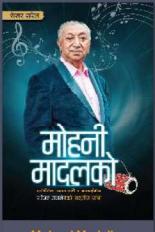
Phone: 0851219040

Email: info@kathalaya.com.np

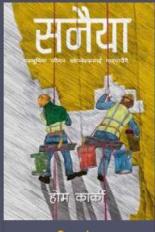
Website: <https://www.kathalaya.com.np/>

Established Date: 2007

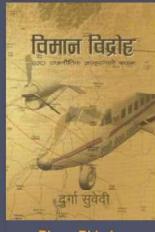
Books By The Publisher



Mohani Madalko



Sanjaya



Biman Bidroha



Phirphirey



Jail Diary

BookWorm
© 2023 BookWorm. All right reserved.

Figure 29: Screenshot of Publisher Detail Page

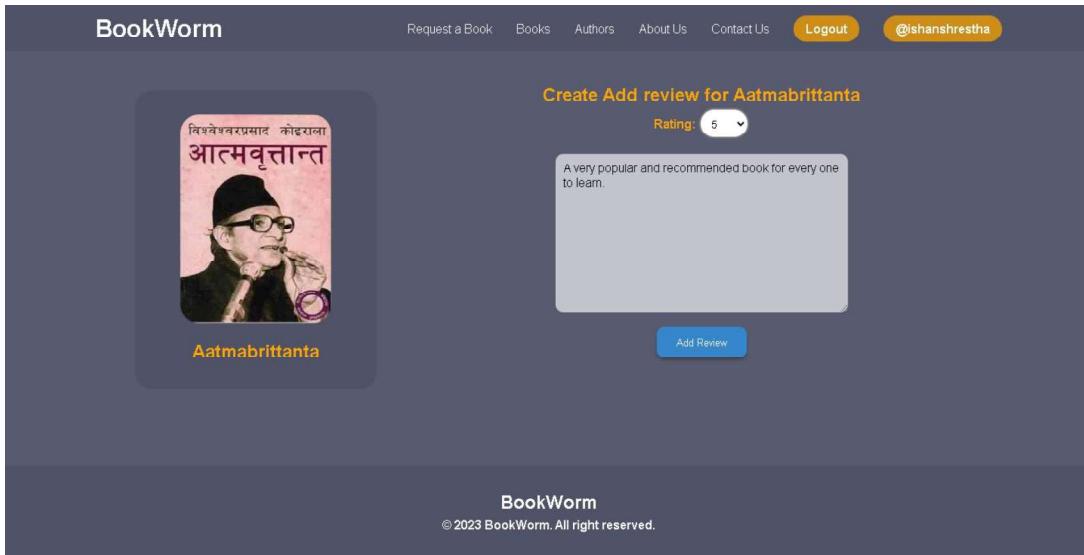


Figure 30: Screenshot of Creating a New Review

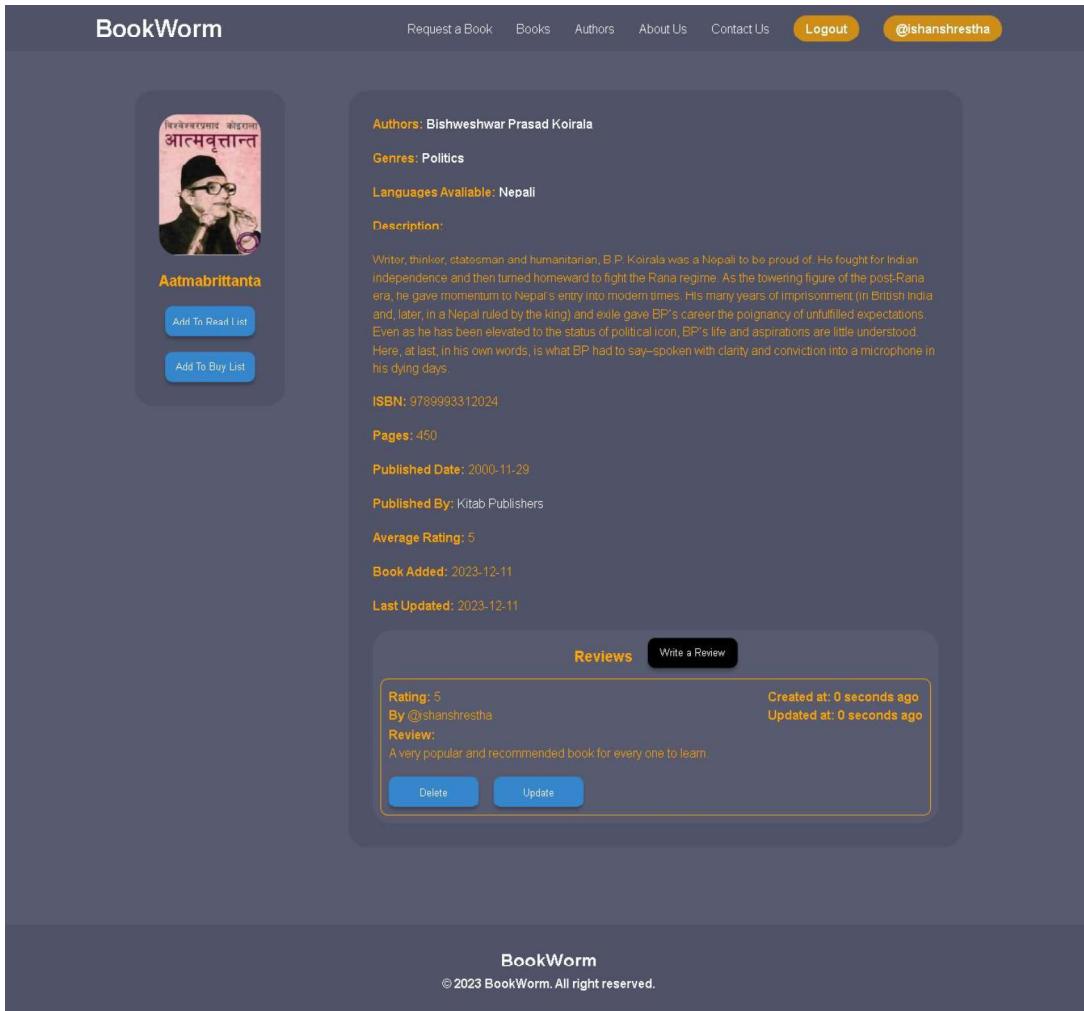


Figure 31: Screenshot of Reviews in Book Detail Page

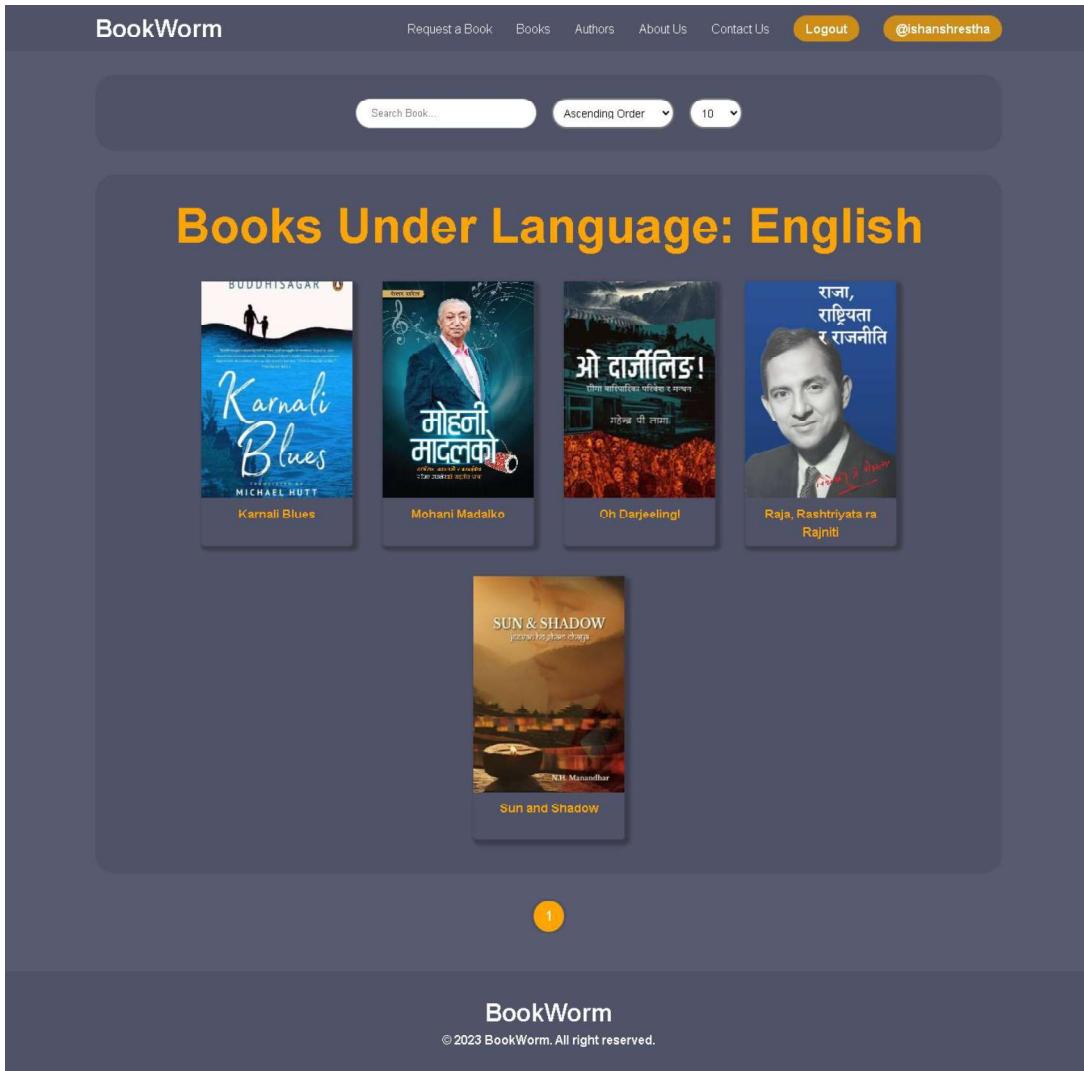


Figure 32: Screenshot of Book List under English Lanugage

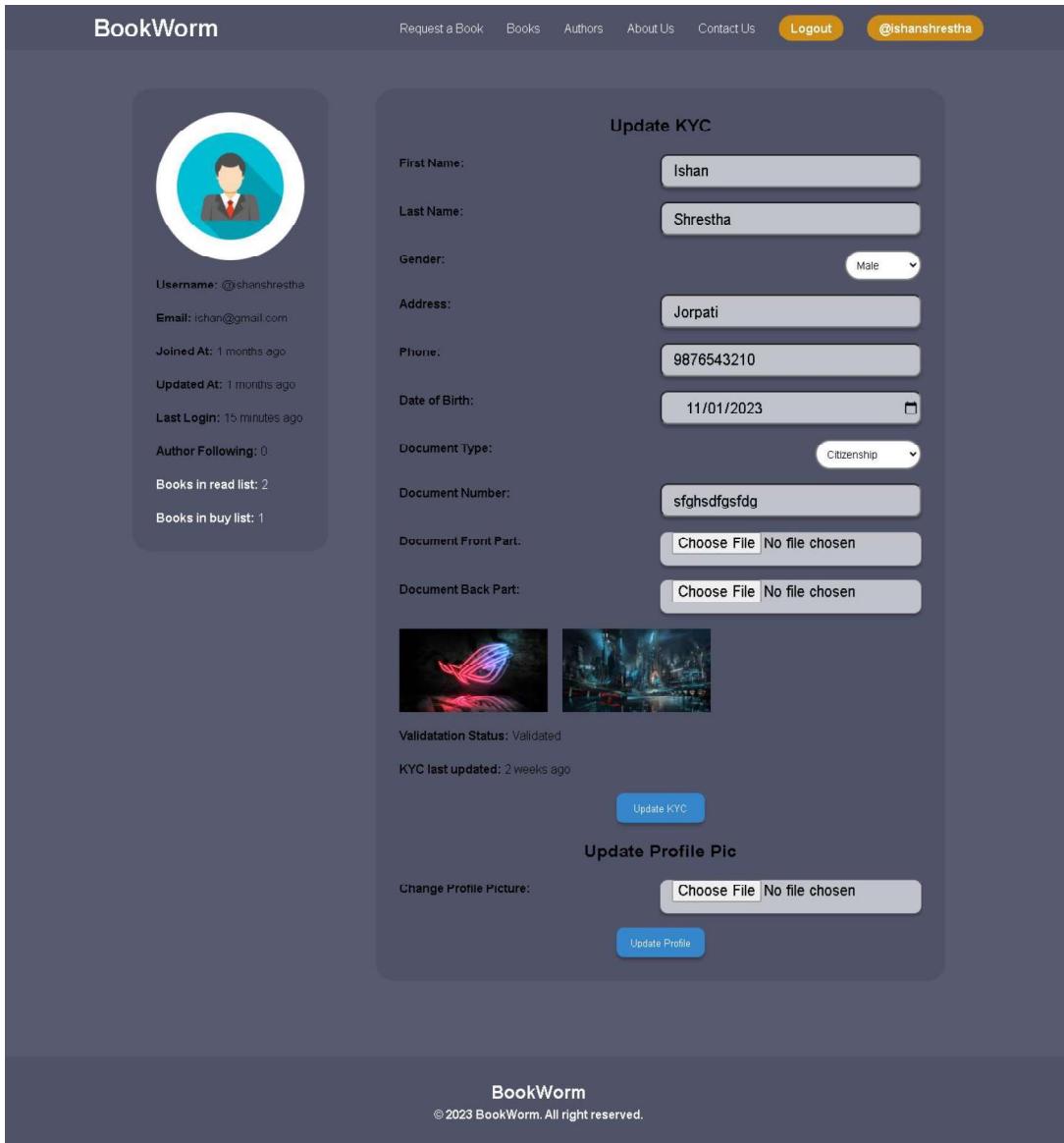


Figure 33: Screenshot of User's Profile Page

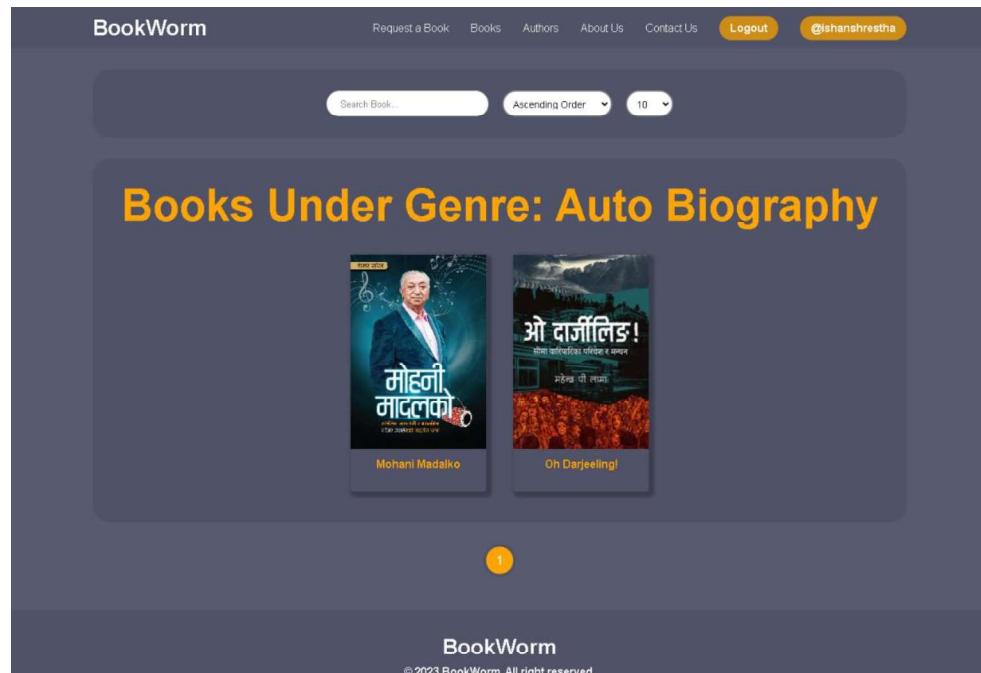


Figure 34: Screenshot of Book List According to Category

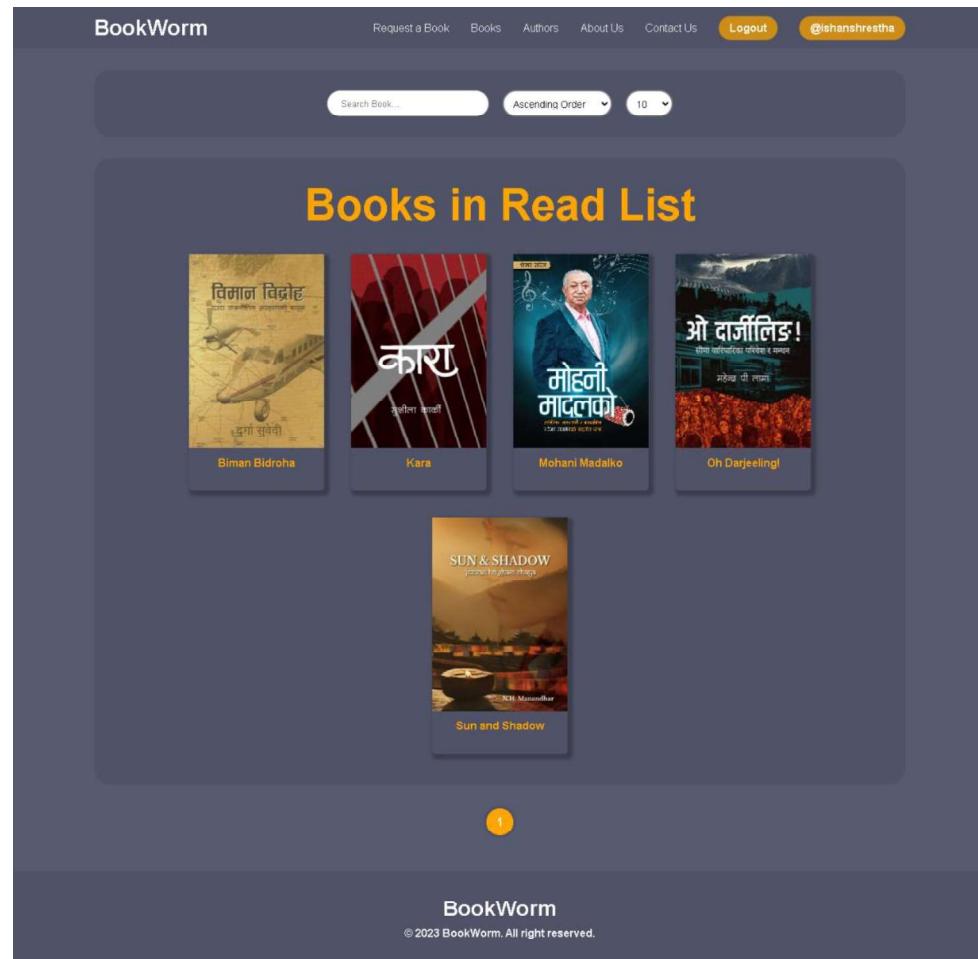


Figure 35: Screenshot of Books in Read List

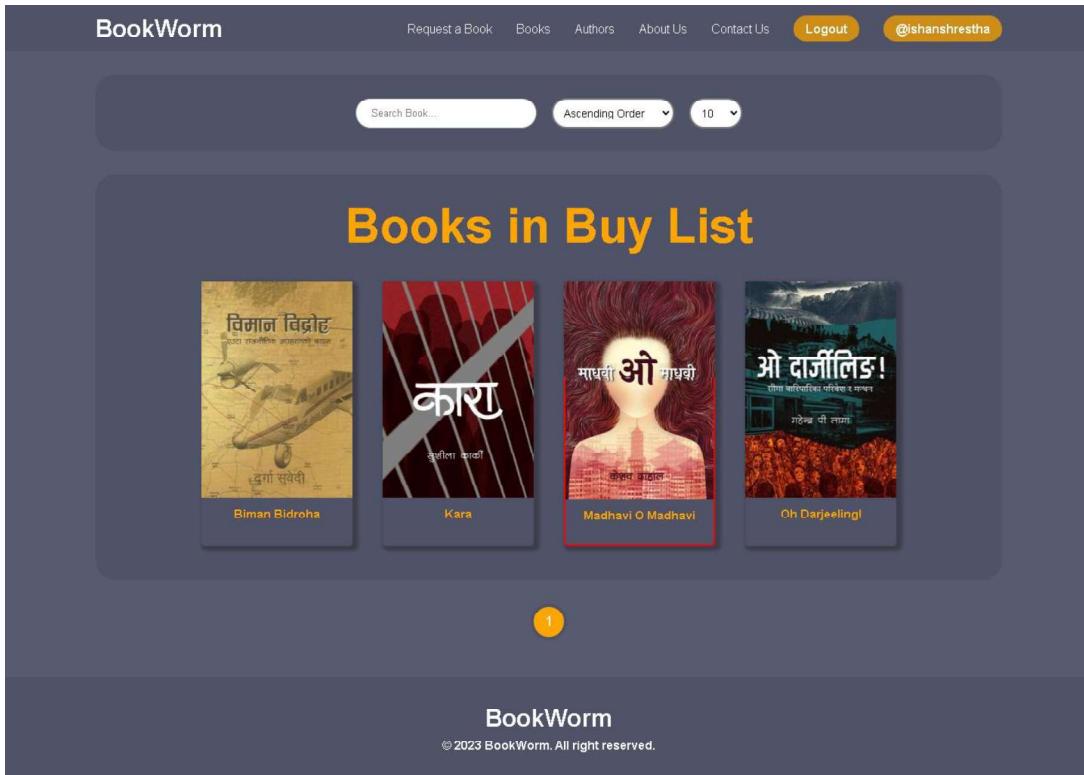


Figure 36: Screenshot of Books in Buy List

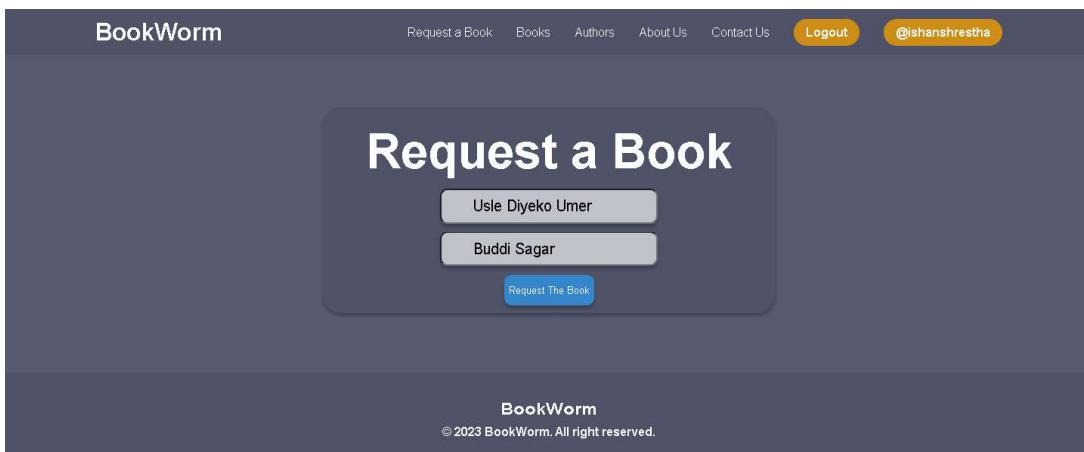


Figure 37: Screenshot of Requesting a New Book

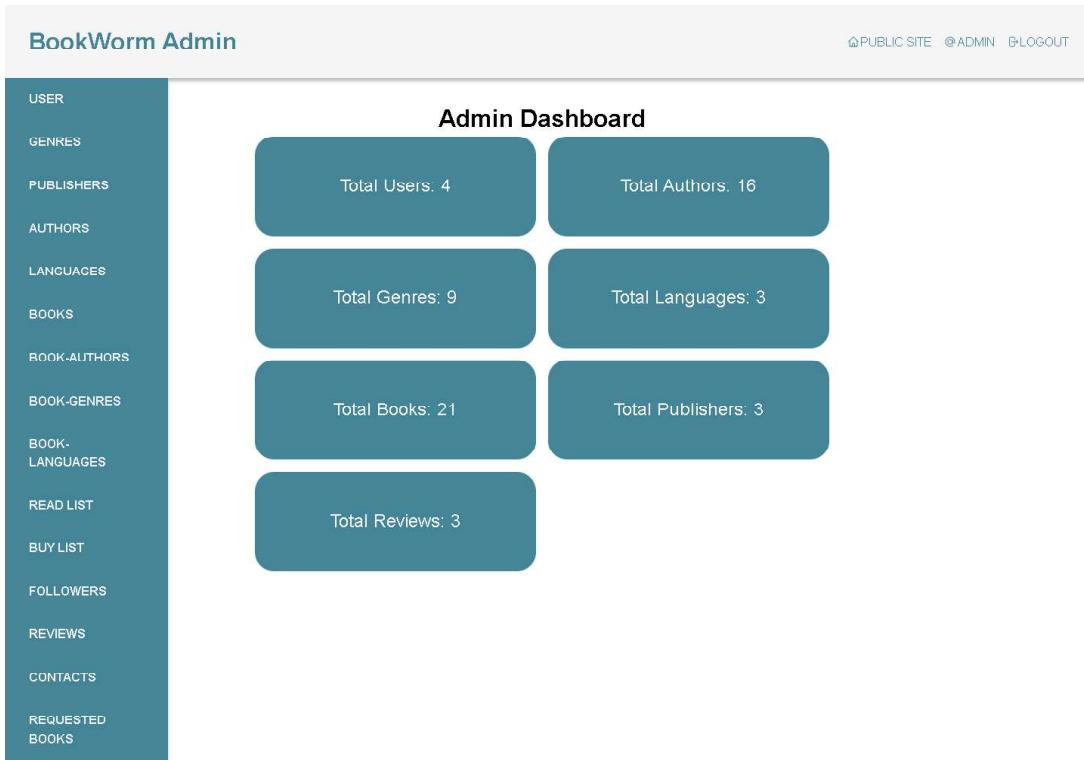


Figure 38: Screenshot of Admin Dashboard

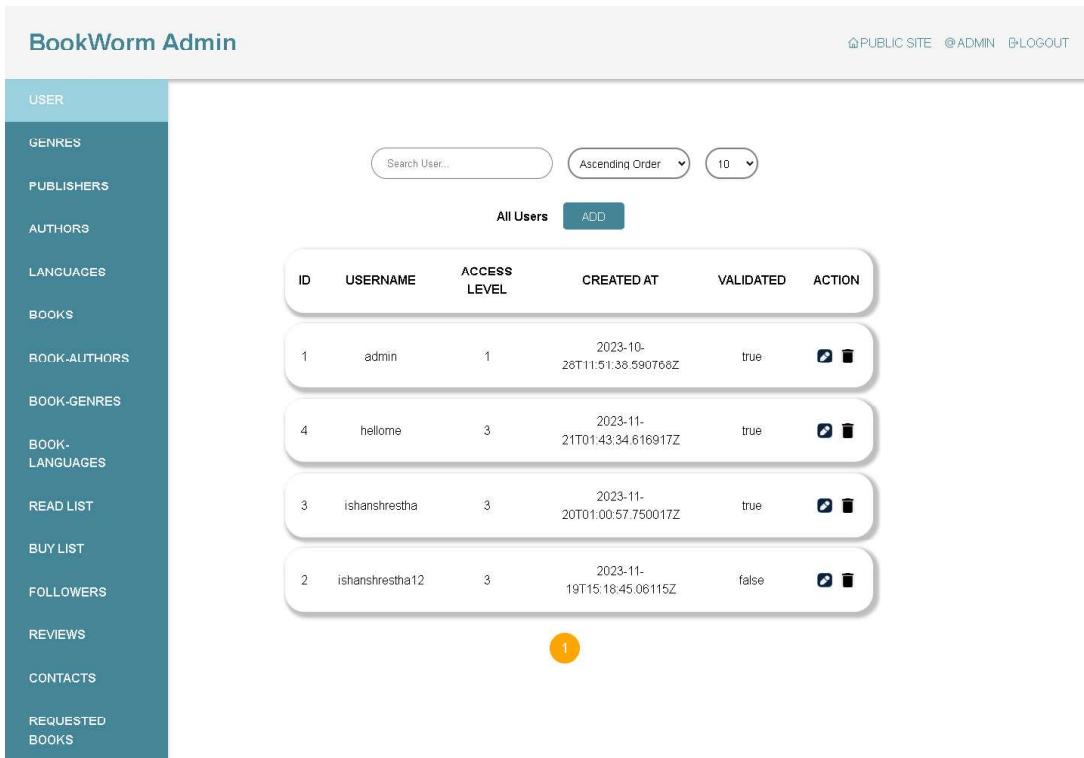


Figure 39: Admin Dashboard Screenshot of Users List

BookWorm Admin

PUBLIC SITE @ADMIN ⌂LOGOUT

USER

- GENRES
- PUBLISHERS
- AUTHORS
- LANGUAGES
- BOOKS
- BOOK-AUTHORS
- BOOK-GENRES
- BOOK-LANGUAGES
- READ LIST
- BUY LIST
- FOLLOWERS
- REVIEWS
- CONTACTS
- REQUESTED BOOKS

Create New User

Username:

Email:

Password:

Register

Figure 40: Admin Dashboard Screenshot of Create New User

BookWorm Admin

PUBLIC SITE @ADMIN ⌂LOGOUT

USER

ID	USERNAME	ACCESS LEVEL	CREATED AT	VALIDATED	ACTION
1	admin	1	2023-10-28T11:51:38.590768Z	true	
4	hellome	3	2023-11-21T01:43:34.616917Z	true	
3	ishanshrestha	3	2023-11-20T01:00:57.750017Z	true	

All Users **ADD**

Do you want to delete @hellome?

Delete Record **No**

Figure 41: Admin Dashboard Screenshot of Delete User

BookWorm Admin

PUBLIC SITE @ADMIN LOGOUT

USER
GENRES
PUBLISHERS
AUTHORS
LANGUAGES
BOOKS
BOOK-AUTHORS
BOOK-GENRES
BOOK-LANGUAGES
READ LIST
BUY LIST
FOLLOWERS
REVIEWS
CONTACTS
REQUESTED BOOKS

All Genres

Genre Title: Add New Genre

Add New Genre

ID	Title	Action
1	Fantasy	
3	Auto Biography	
5	Non Fiction	
6	Novels	
8	Nepali History	
10	Political Memoirs	
11	Historical Fiction	
12	Fiction	
13	Politics	

Figure 42: Admin Dashboard Screenshot of Genres List

PUBLISHERS

ID	NAME	ESTABLISHED DATE	ACTION
3	Himalayan MapHouse Pvt. Ltd.	1997	
1	Kathalaya Inc.	2060	
2	Kitab Publishers	2000	

Figure 43: Admin Dashboard Screenshot of Publishers List

Add Publisher

Name:	<input type="text"/>
Description:	<input type="text"/>
Publisher Pic:	<input type="file"/> Choose File No file chosen
Address:	<input type="text"/>
Phone:	<input type="text"/>
Email:	<input type="text"/>
Website:	<input type="text"/>
Established Date:	<input type="text"/> 0
Latitude:	<input type="text"/>
Longitude:	<input type="text"/>

Figure 44: Admin Dashboard Screenshot of Adding a New Publisher

BookWorm Admin																																			
	PUBLIC SITE	@ADMIN																																	
USER																																			
GENRES																																			
PUBLISHERS																																			
AUTHORS																																			
LANGUAGES																																			
BOOKS																																			
BOOK-AUTHORS																																			
BOOK-GENRES																																			
BOOK-LANGUAGES																																			
READ LIST																																			
BUY LIST																																			
FOLLOWERS																																			
REVIEWS																																			
CONTACTS																																			
REQUESTED BOOKS																																			
	<input type="text" value="Search Authors..."/> <input type="button" value="Ascending Order"/> <input type="button" value="10"/>																																		
	<input type="button" value="All Authors"/> <input type="button" value="ADD"/>																																		
	<table border="1"> <thead> <tr> <th>ID</th> <th>NAME</th> <th>ACTION</th> </tr> </thead> <tbody> <tr> <td>17</td> <td>Bishweshwar Prasad Koirala</td> <td><input type="checkbox"/> <input type="button"/></td> </tr> <tr> <td>14</td> <td>'Buddhi sagar</td> <td><input type="checkbox"/> <input type="button"/></td> </tr> <tr> <td>9</td> <td>Dr Madan Kumar Bhattacharya</td> <td><input type="checkbox"/> <input type="button"/></td> </tr> <tr> <td>11</td> <td>Durga Subedi</td> <td><input type="checkbox"/> <input type="button"/></td> </tr> <tr> <td>6</td> <td>Hem Karki</td> <td><input type="checkbox"/> <input type="button"/></td> </tr> <tr> <td>2</td> <td>Keshab Dahal</td> <td><input type="checkbox"/> <input type="button"/></td> </tr> <tr> <td>5</td> <td>Mahendra P. Lama</td> <td><input type="checkbox"/> <input type="button"/></td> </tr> <tr> <td>3</td> <td>Minbahadur Bista</td> <td><input type="checkbox"/> <input type="button"/></td> </tr> <tr> <td>13</td> <td>N.H. Manandhar</td> <td><input type="checkbox"/> <input type="button"/></td> </tr> <tr> <td>15</td> <td>Prajwal Parajuly</td> <td><input type="checkbox"/> <input type="button"/></td> </tr> </tbody> </table>	ID	NAME	ACTION	17	Bishweshwar Prasad Koirala	<input type="checkbox"/> <input type="button"/>	14	'Buddhi sagar	<input type="checkbox"/> <input type="button"/>	9	Dr Madan Kumar Bhattacharya	<input type="checkbox"/> <input type="button"/>	11	Durga Subedi	<input type="checkbox"/> <input type="button"/>	6	Hem Karki	<input type="checkbox"/> <input type="button"/>	2	Keshab Dahal	<input type="checkbox"/> <input type="button"/>	5	Mahendra P. Lama	<input type="checkbox"/> <input type="button"/>	3	Minbahadur Bista	<input type="checkbox"/> <input type="button"/>	13	N.H. Manandhar	<input type="checkbox"/> <input type="button"/>	15	Prajwal Parajuly	<input type="checkbox"/> <input type="button"/>	
ID	NAME	ACTION																																	
17	Bishweshwar Prasad Koirala	<input type="checkbox"/> <input type="button"/>																																	
14	'Buddhi sagar	<input type="checkbox"/> <input type="button"/>																																	
9	Dr Madan Kumar Bhattacharya	<input type="checkbox"/> <input type="button"/>																																	
11	Durga Subedi	<input type="checkbox"/> <input type="button"/>																																	
6	Hem Karki	<input type="checkbox"/> <input type="button"/>																																	
2	Keshab Dahal	<input type="checkbox"/> <input type="button"/>																																	
5	Mahendra P. Lama	<input type="checkbox"/> <input type="button"/>																																	
3	Minbahadur Bista	<input type="checkbox"/> <input type="button"/>																																	
13	N.H. Manandhar	<input type="checkbox"/> <input type="button"/>																																	
15	Prajwal Parajuly	<input type="checkbox"/> <input type="button"/>																																	
		1 2																																	

Figure 45: Admin Dashboard Screenshot of Authors List

BookWorm Admin

PUBLIC SITE @ADMIN BLOGOUT

USER GENRES PUBLISHERS AUTHORS LANGUAGES BOOKS BOOK-AUTHORS BOOK-GENRES BOOK-LANGUAGES READ LIST BUY LIST FOLLOWERS REVIEWS CONTACTS REQUESTED BOOKS	<h3>Add New Author</h3> <p>First Name: <input type="text"/></p> <p>Last Name: <input type="text"/></p> <p>Bio: <input type="text"/></p> <p>Date of Birth (Year): <input type="text" value="0"/></p> <p>Email: <input type="text"/></p> <p>Country of Origin: <input type="text"/></p> <p>Avatar: <input type="file" value="Choose File"/> No file chosen</p> <p>Add Author</p>
---	---

Figure 46: Admin Dashboard Screenshot of Adding New Author

BookWorm Admin

PUBLIC SITE @ADMIN BLOGOUT

USER GENRES PUBLISHERS AUTHORS LANGUAGES BOOKS BOOK-AUTHORS BOOK-GENRES BOOK-LANGUAGES READ LIST BUY LIST FOLLOWERS REVIEWS CONTACTS REQUESTED BOOKS	<h3>Author Detail</h3> <p>First Name: Bishweshwar</p> <p>Last Name: Prasad Koirala</p> <p>Bio: विश्वेश्वर प्रसाद कोइराला नेपालका प्रथम जन निर्बाचित प्रधान</p> <p>Date of Birth: 1959</p> <p>Email: <input type="text"/></p> <p>Country of Origin: Nepal</p> <p>Avatar: <input type="text" value="public\author\avatar-author-1959qn2zycl5.jpg"/></p> <p>Update</p> <p>Delete</p>
---	---

Figure 47: Admin Dashboard Screenshot of Author Detail Page

BookWorm Admin

PUBLIC SITE @ADMIN LOGOUT

USER
GENRES
PUBLISHERS
AUTHORS
LANGUAGES
BOOKS
BOOK-AUTHORS
BOOK-GENRES
BOOK-LANGUAGES
READ LIST
BUY LIST
FOLLOWERS
REVIEWS
CONTACTS
REQUESTED BOOKS

Add Language

Language: Add

All Languages

ID	Language	Action
1	English	Update
2	Nepali	Update
3	Hindi	Update

Figure 48: Admin Dashboard Screenshot of Languages List

USER
GENRES
PUBLISHERS
AUTHORS
LANGUAGES
BOOKS
BOOK-AUTHORS
BOOK-GENRES
BOOK-LANGUAGES
READ LIST
BUY LIST
FOLLOWERS
REVIEWS
CONTACTS
REQUESTED BOOKS

Ascending Order

10

All BooksADD

ID	TITLE	IS ACTIVE	ADDED AT	ACTION
20	Aatmabrittanta	true	2023-12-11T14:52:11.265375Z	
12	Aghori	true	2023-12-03T12:08:34.015124Z	
11	Biman Bidroha	true	2023-12-03T12:00:30.152383Z	
16	Chitralekhako Chaurasi	true	2023-12-03T13:01:59.194914Z	
7	Durbarko Dukhanta	true	2023-12-02T06:54:51.197313Z	
19	Jail Diary	true	2023-12-11T14:49:54.704863Z	
4	Kara	true	2023-11-21T14:53:20.574153Z	
14	Kamali Blues	true	2023-12-03T12:22:38.410234Z	
2	Marhavi O Marhavi	true	2023-11-20T01:33:28.562309Z	
1	Mohani Madalko	true	2023-11-20T01:23:42.194171Z	

1 2 3

Figure 49: Admin Dashboard Screenshot of Books List

BookWorm Admin

PUBLIC SITE @ADMIN BLOGOUT

Add Book	
USER	Title: <input type="text"/>
GENRES	Description: <input type="text"/>
PUBLISHERS	Cover: <input type="file"/> Choose File No file chosen
AUTHORS	ISBN number: <input type="text"/> 0
LANGUAGES	Published Date: <input type="text"/> mm/dd/yyyy
BOOKS	Paperback: <input type="text"/> 0
BOOK-AUTHORS	Is Active: <input type="radio"/> False <input checked="" type="radio"/> True
BOOK-GENRES	Published By: <input type="text"/> Kathalaya Inc.
BOOK-LANGUAGES	<input type="button" value="Add"/>
READ LIST	
BUY LIST	
FOLLOWERS	
REVIEWS	
CONTACTS	
REQUESTED BOOKS	

Figure 50: Admin Dashboard Screenshot of Adding a New Book

BookWorm Admin

PUBLIC SITE @ADMIN BLOGOUT

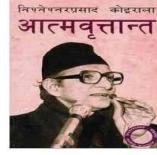
Book Detail	
USER	
GENRES	Added At: 1 weeks ago
PUBLISHERS	Updated At: 1 weeks ago
AUTHORS	ID: 20
LANGUAGES	Title: Aatmabrittanta
BOOKS	Description: Writer, thinker, statesman and humanitarian, B.P. K.
BOOK-AUTHORS	ISBN number: 9789993312024
BOOK-GENRES	Published Date: 2000-11-29
BOOK-LANGUAGES	Paperback: 450
READ LIST	Is Active: <input checked="" type="radio"/> True
BUY LIST	Published By: <input type="text"/> Kitab Publishers
FOLLOWERS	<input type="button" value="Update"/>
REVIEWS	<input type="button" value="Delete"/>
CONTACTS	
REQUESTED BOOKS	

Figure 51: Admin Dashboard Screenshot of Book's Detail and Update

BookWorm Admin

PUBLIC SITE @ADMIN LOGOUT

USER
GENRES
PUBLISHERS
AUTHORS
LANGUAGES
BOOKS
BOOK.AUTHORS
BOOK-GENRES
BOOK-LANGUAGES
READ LIST
BUY LIST
FOLLOWERS
REVIEWS
CONTACTS
REQUESTED BOOKS

User to follow author

Author: Sekhar Kharel

User: ishanshrestha12

Add

Search Read List... Ascending Order 10

All Follower List

BOOK NAME	USERNAME	CREATED AT	ACTION
Keshab Dahal	admin	2023-11-22T01:11:52.753Z	

1

Figure 52: Admin Dashboard Screenshot of Followers List

All Reviews						
ID	RATING	USERNAME	BOOK TITLE	CREATED AT	UPDATED AT	ACTION
1	5	admin	Kara	2023-11-21T15:11:01.436288Z	2023-11-21T15:11:01.436288Z	 
4	4.5	ishanshrestha	Mohani Madalko	2023-12-01T01:28:25.843253Z	2023-12-01T01:28:25.843253Z	 
5	5	ishanshrestha	Aatmabrittanta	2023-12-20T00:45:14.101703Z	2023-12-20T00:45:14.101703Z	 

Figure 53: Admin Dashboard Screenshot of Reviews List

Review Detail

ID:	1	
Rating:	<input type="text" value="5"/>	
Review Body:	This one is good book to learn about histroy	
Book:	<input type="text" value="Kara"/> Kara 	
User:	<input type="text" value="admin"/> @admin 	
IsActive:	<input type="radio"/>	False
<input checked="" type="radio"/>	True	
Created At: 1 week ago		
Update		

Figure 54: Admin Dashboard Screenshot of Review's Detail

BookWorm Admin

PUBLIC SITE @ADMIN LOGOUT

USER
GENRES
PUBLISHERS
AUTHORS
LANGUAGES
BOOKS
BOOK.AUTHORS
BOOK.GENRES
BOOK-LANGUAGES
READ LIST
BUY LIST
FOLLOWERS
REVIEWS
CONTACTS
REQUESTED BOOKS

All Contants

ID	Name	Email	Subject	Submitted At	Action
3	Aruna Chaulagain	aruna@gmail.com	Cannot Login	2023-12-20	
4	Shuvam Adhakari	shuvam@gmail.com	Cooperatell	2023-12-20	

Figure 55: Admin Dashboard Screenshot of Messages List

BookWorm Admin

PUBLIC SITE @ADMIN LOGOUT

USER
GENRES
PUBLISHERS
AUTHORS
LANGUAGES
BOOKS
BOOK-AUTHORS
BOOK-GENRES
BOOK-LANGUAGES
READ LIST
BUY LIST
FOLLOWERS
REVIEWS
CONTACTS
REQUESTED BOOKS

Search Request Books... Ascending Order 10

All Request Books

ID	REQUESTED BOOK	AUTHOR	REQUESTED BY	REQUESTED DATE	Add Status	ACTION
1	Golang Basic	Taylor Jenkins Reid	admin	2023-11-19T04:18:25.333509Z	false	<input checked="" type="checkbox"/> <input type="button" value="Delete"/>
2	Karnali Blues	Buddi Sagar	admin	2023-11-30T01:52:59.587051Z	false	<input checked="" type="checkbox"/> <input type="button" value="Delete"/>

1

Figure 56: Admin Dashboard Screenshot of Book Requests List

References

- [1] J. A., "The Importance of Book Reviews," 26 11 2021. [Online]. Available: <https://www.thebooknetwork.co.uk/the-blog/the-importance-of-book-reviews>. [Accessed 25 8 2023].
- [2] D. D. Sprague, "The History of Online Reviews and How They Have Evolved," 20 12 2019. [Online]. Available: <https://results.shopperapproved.com/blog/the-history-and-evolution-of-online-reviews>. [Accessed 21 9 2023].

Bibliography

- [3] A. Freeman, Pro Go: The Complete Guide to Programming Reliable and Efficient Software Using Golang, London: Apress Media, 2022, p. 582.
- [4] S. Kumar, "Prototype Model in Software Engineering," Scaler Topics, 16 2 2023. [Online]. Available: <https://www.scaler.com/topics/software-engineering/prototype-model-in-software-engineering/>. [Accessed 23 8 2023].
- [5] Lucidchart, "What is a Data Flow Diagram and What are your DFD needs?," [Online]. [Accessed 12 8 2023].