

E-Commerce Website For Book Store

CSI1007 – Software Engineering Principles Laboratory

23MID0026

B Varun

E-Commerce Website For Book Store



Description of the Project: A full-stack e-commerce application for buying and selling books.



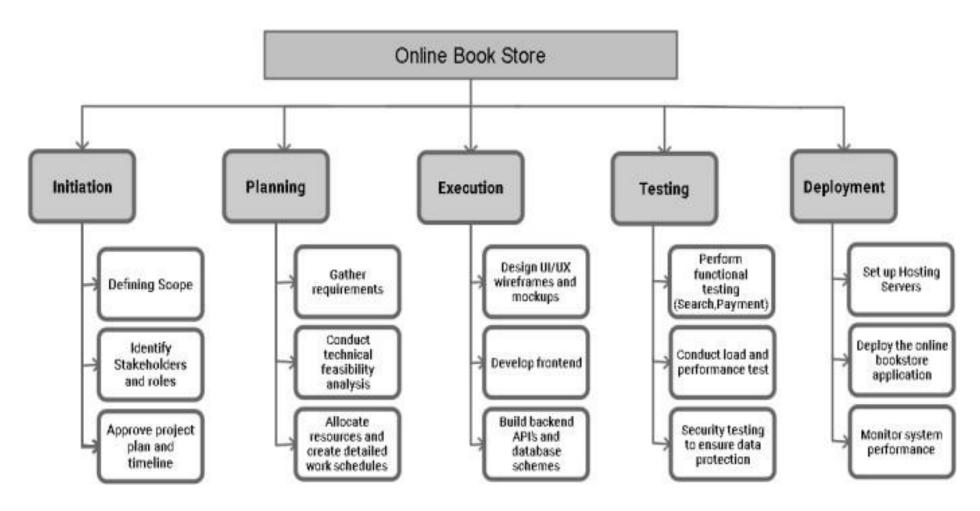
Scope of the Project: To develop a secure, user-friendly e-commerce platform for a bookstore, enabling users to browse, search, and purchase books online.



Impact of the developing Project: To expand market reach and enhance community engagements and accessibility, and reduce carbon emissions from fewer store visits, through it may increase packaging waste.

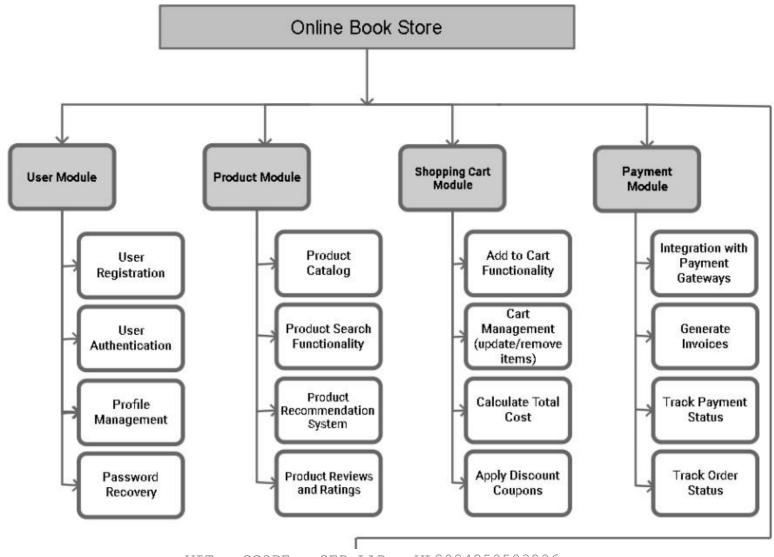
Work Breakdown Structure

• Process-Based Work Breakdown Structure

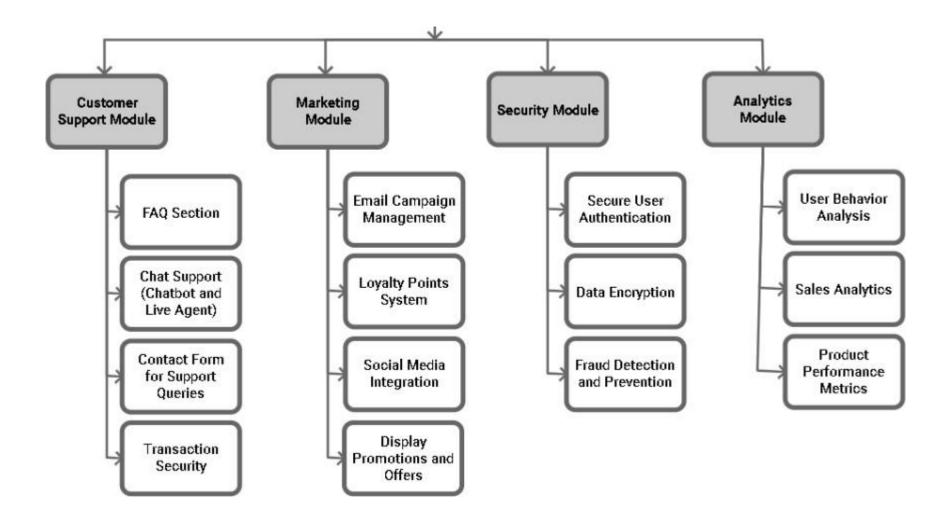


Work Breakdown Structure

Product-Based Work Breakdown Structure



Cont.



SRS Document

Functional Requirements

Customer Interface:

- Home Page: Displays featured books, search functionality, and promotional banners.
- Search and Browse Interface: Allows users to search for books by title, author, genre, or ISBN and filter results by price, rating, or availability.
- Book Details: Provides detailed information about a selected book, including a synopsis, author biography, price, and user reviews.
- Shopping Cart and Checkout: Enables users to add books to their cart, review their selections, and proceed with secure payments.
- User Account Management: Offers functionalities for managing personal information, order history, and wishlists.

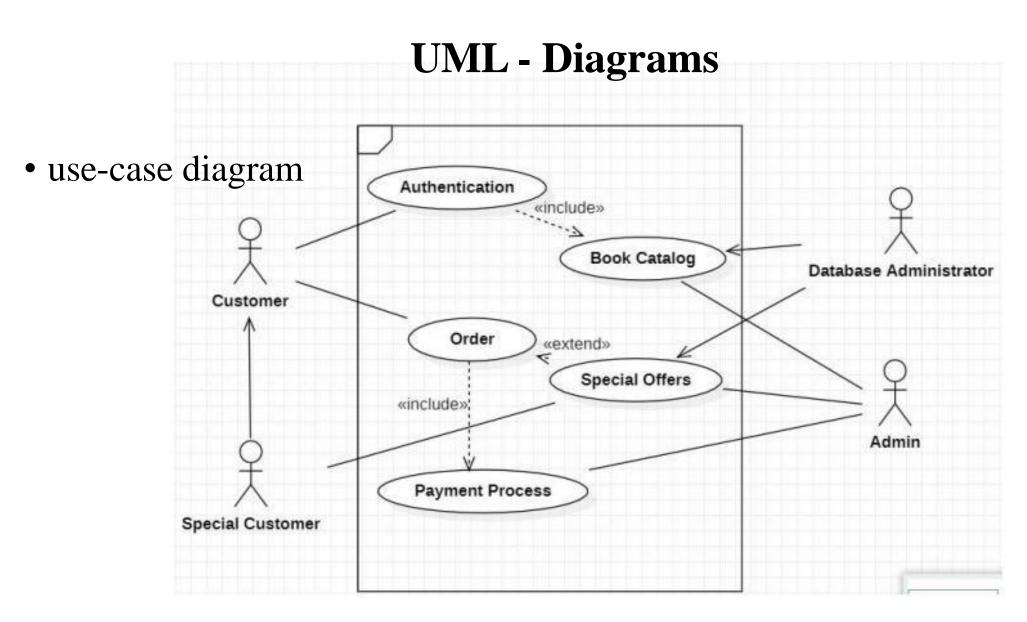
Store Administrator Interface:

- Inventory Management: Enables administrators to add, update, or remove books from the catalog and manage stock levels.
- Order Management: Facilitates the tracking and processing of customer orders.
- Analytics Dashboard: Displays key metrics such as sales performance, popular books, and customer trends.

SRS Document

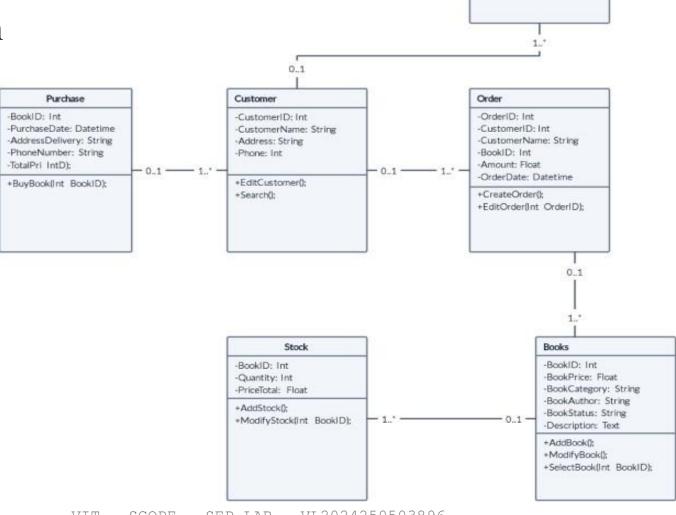
Non-Functional Requirements

- **Usability**: Provide a user-friendly interface with clear navigation, enabling users to easily browse, purchase, and track orders.
- Scalability: Design the platform to handle growing user demand and inventory sizes efficiently.
- **Response Time**: Ensure the maximum response time for system operations such as user login, book search, and checkout does not exceed 2 seconds under normal conditions.
- **Throughput**: Support processing of up to 1,000 orders per second during peak periods without system degradation.
- **Concurrency**: Allow up to 100,000 simultaneous users to browse, search, and purchase books without affecting performance or stability.
- Availability: Ensure a minimum of 99.99% system uptime, excluding scheduled maintenance, to provide consistent access to customers worldwide.
- Fault Tolerance: Implement mechanisms to recover from failures such as server crashes or network outages without data loss or service disruption
- **Responsiveness**: Ensures website design adapts and renders well across various devices and screen sizes maintaining optimal usability and appearance.



UML - Diagrams

• class diagram



Comment

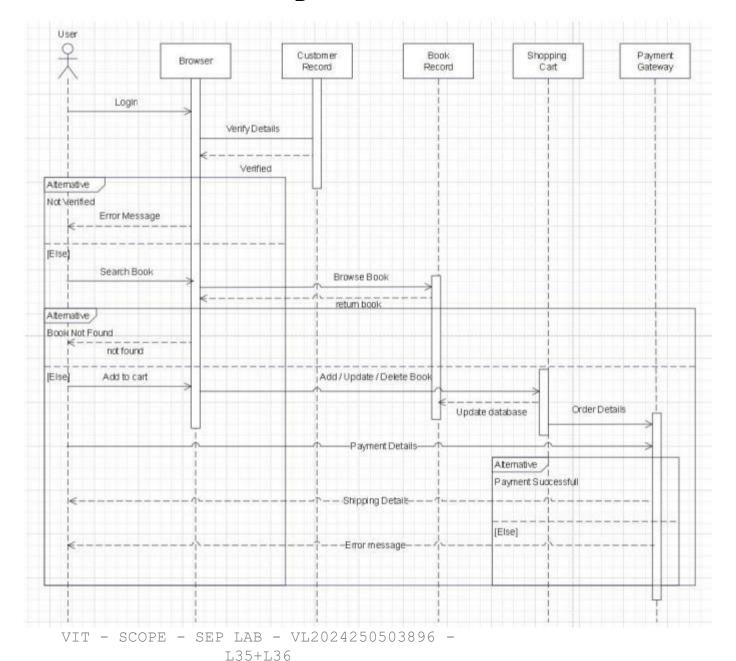
-CommentDate: Datetime -CommentMessage: String +CreateComment(): +EditComment(Int CommentiD);

-BookID: Int -CustomerID: Int. -CommentID: Int -CustomerName: String

VIT - SCOPE - SEP LAB - VL2024250503896 -L35+L36

UML - Diagrams

• sequence diagram



Testing

TEST CASE 1: Verify Gmail Login for New Account Creation

TEST CASE ID: TC001

TEST SCENARIO: Ensure that a new user can create an account using Gmail login

TEST CASE DESCRIPTION: Validate that the user can register successfully using Gmail

authentication and access the online bookstore.

TEST DATA:

• Valid Gmail: <u>user@gmail.com</u> (with correct credentials)

• Invalid Gmail: wronguser@gmail.com (wrong credentials)

EXPECTED RESULT:

• If valid Gmail credentials are used, the account should be created, and the user should be redirected to them homepage.

• If invalid credentials are used, an error message like "Invalid email or password" Should appear.

ACTUAL RESULT:

• Valid credentials: Successfully signed up and redirected to homepage.

• Invalid credentials: Error message displayed.

PASS/FAIL: Pass.

Testing

TEST CASE 2: Verify add to cart functionality

TEST CASE ID: TC004

TEST SCENARIO: ensure that users can add books to cart

TEST CASE DESCRIPTION: validate that users can add books to cart and purchase later

Test Steps:

- 1. Open online book store app
- 2. Login in using Gmail
- 3. Search for a book
- 4. Click on "Add to cart"
- 5. Navigate to the cart section
- 6. Verify that the book is added to the cart

EXPECTED RESULT:

• The book should be saved in the cart

ACTUAL RESULT:

• Book successfully added to cart

PASS/FAIL: Pass

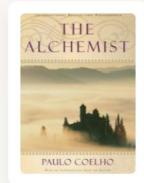
Home Page

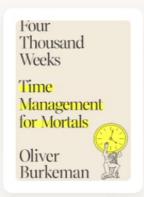


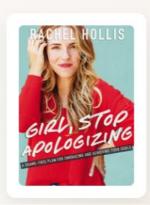
Discover Your Next Favorite Book

Find everything from bestsellers to rare collections. Browse our extensive library with exclusive discounts on every purchase.









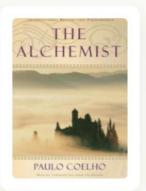


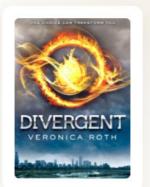


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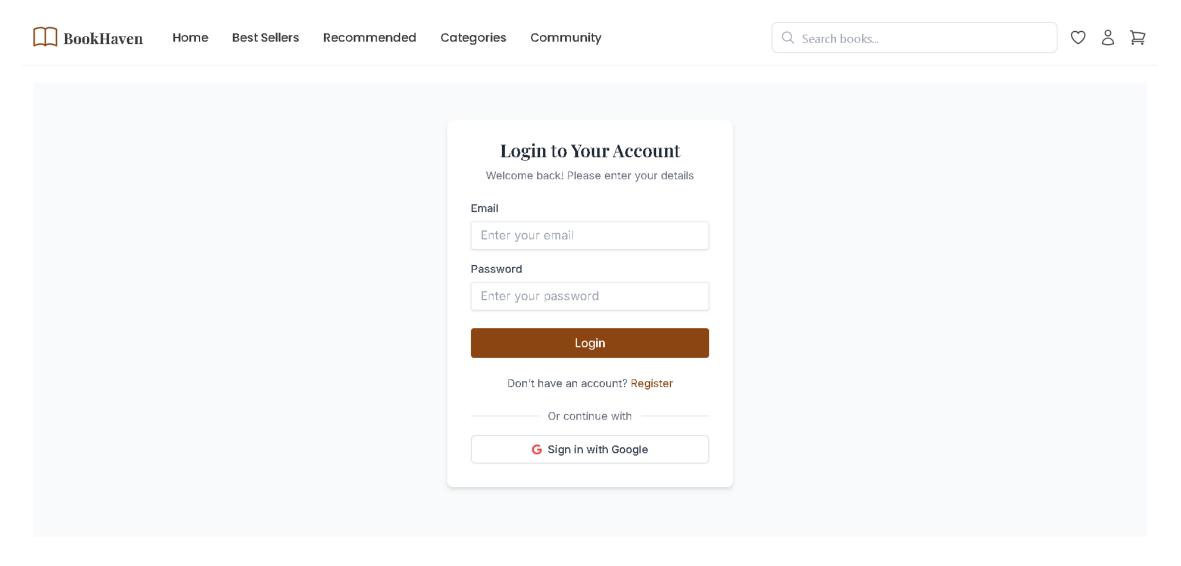








Login/Signup Page

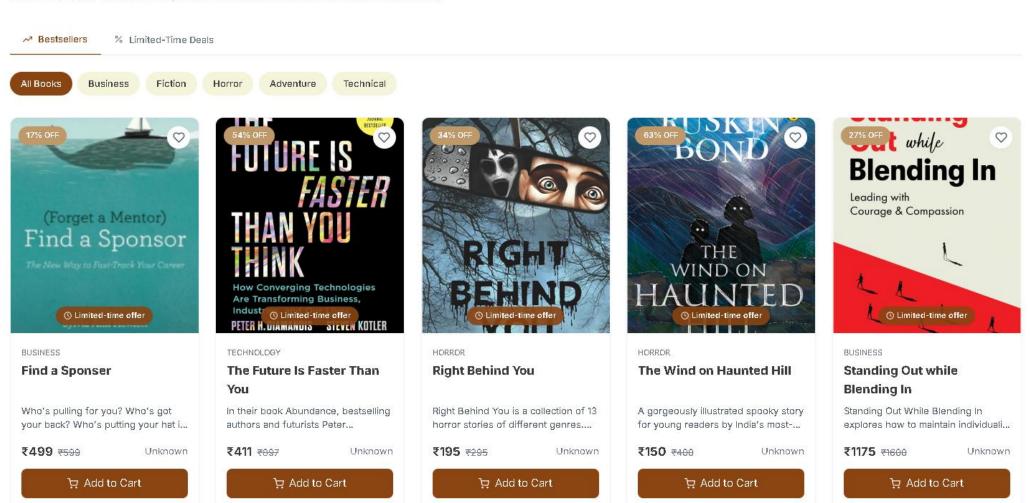


Book Catalog

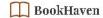
Bestsellers & Deals

View all books →

Discover popular books loved by readers worldwide and exclusive limited-time offers



Product Page



Home

Best Sellers

Recommended

Categories

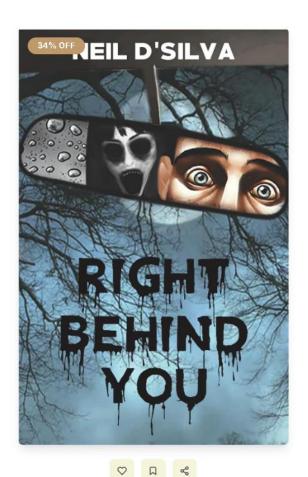
Community



















Description

Right Behind You is a collection of 13 horror stories of different genres. The thing that connects these stories is the emotion of our inner fears that resides in all of us. We might mask these fears, we might even deny them, but they emerge when least expected and then they begin to encroach upon every aspect of our lives. In this collection of assorted horror stories, you will find noir horror, urban myths, fantasies, campfire tales, stories of phobias, gore, and even a story that takes place entirely on chat. An e-horror story, if you could call it that. Just like a rollercoaster is a source of unexpected adventure and you won't find its shocks and thrills unless you actually ride on it, you won't get the real experience of Right Behind You unless you read it. So, sit back, fasten your seatbelts, and plunge into the drive.

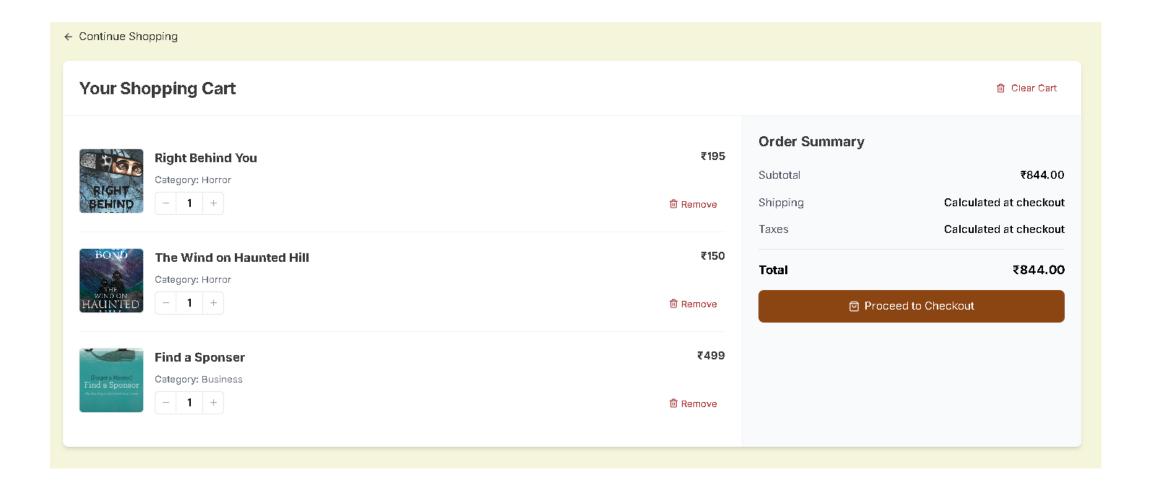
Product Details

Category: Horror

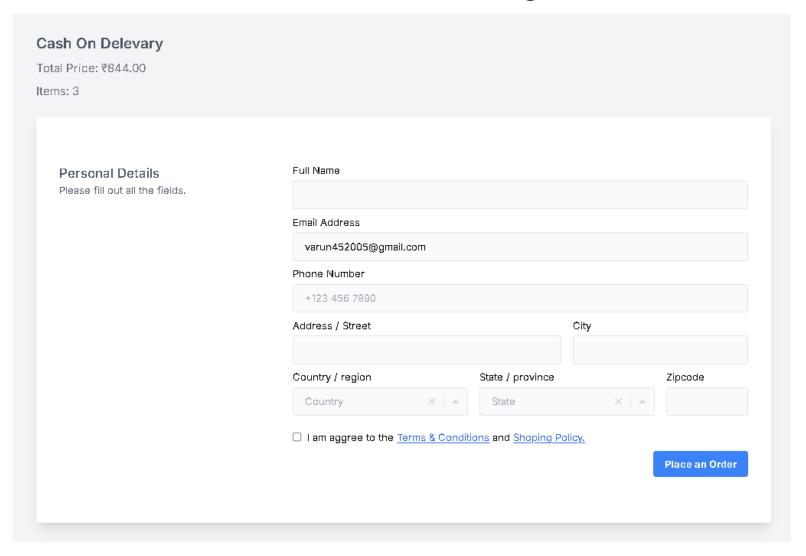
Publication: 2025

Product ID: 67e00d0e

Shopping Cart



Order Placement Page



User Dashboard



Order Details Page

Your Orders



Order ID: 67cdec1903fe75a44f0563da

Name: werg

Email: varun452005@gmail.com

Phone: 65126265152

Total Price: ₹40

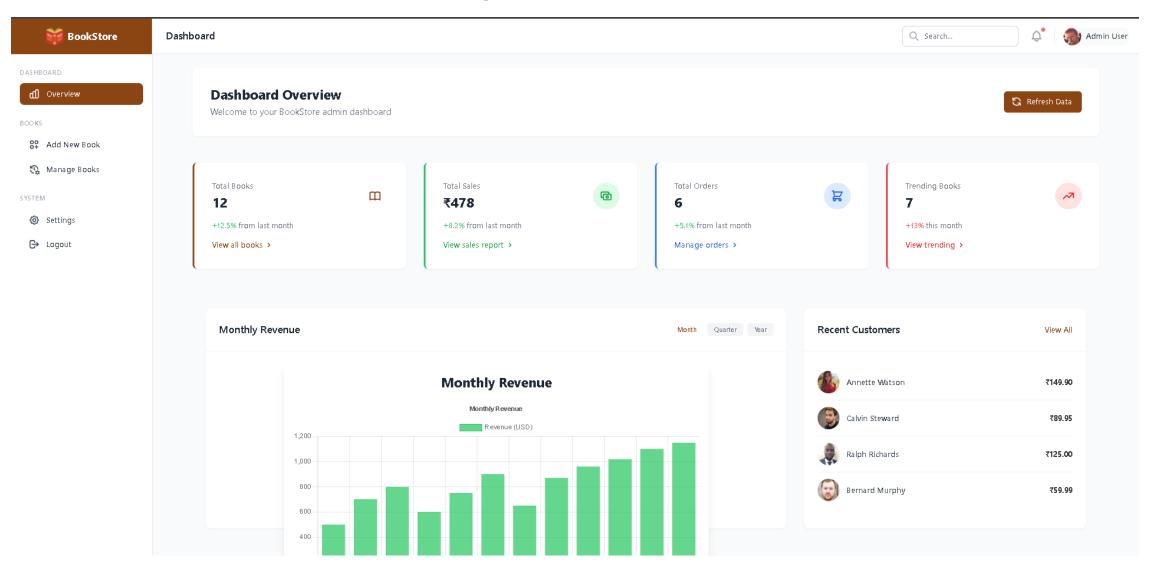
Address:

HYDERABAD, Telangana, India, 500008

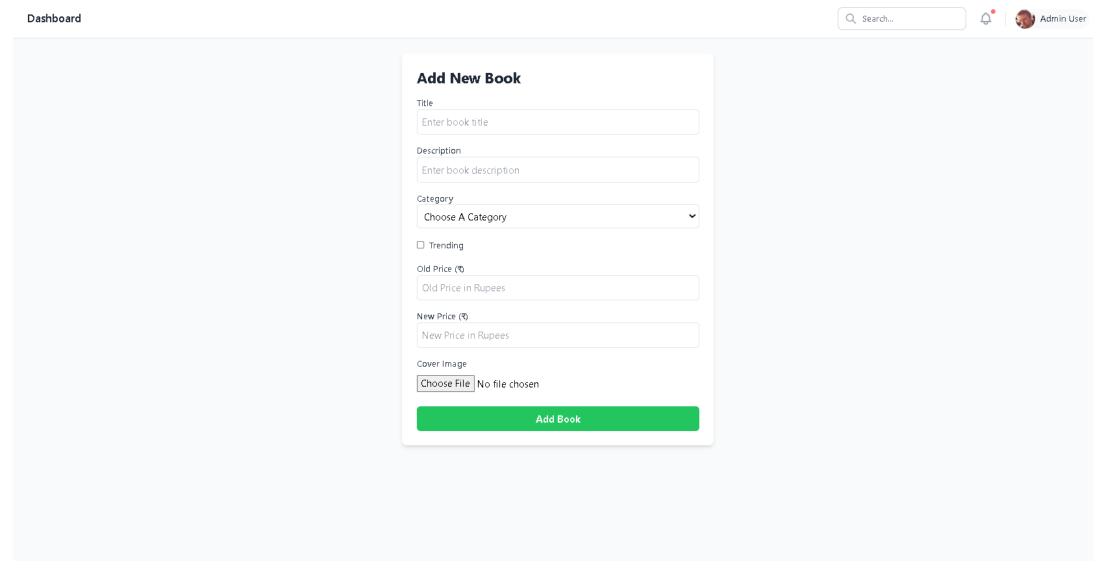
Products Id:

6772c575ab90f6dd193417e5

Admin Page for Store Administrator



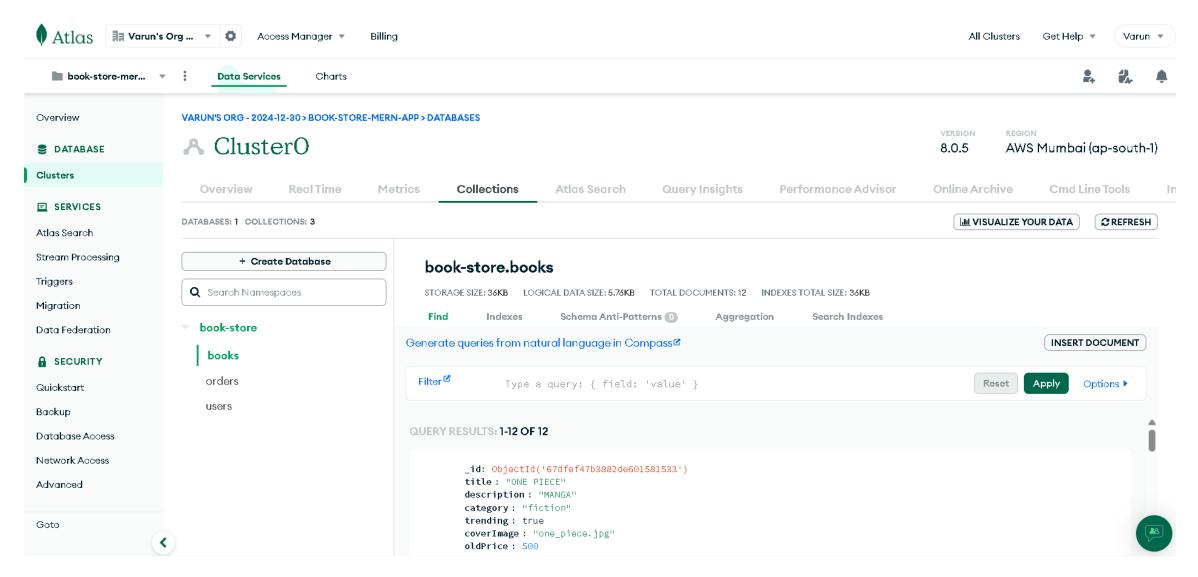
Adding new Books



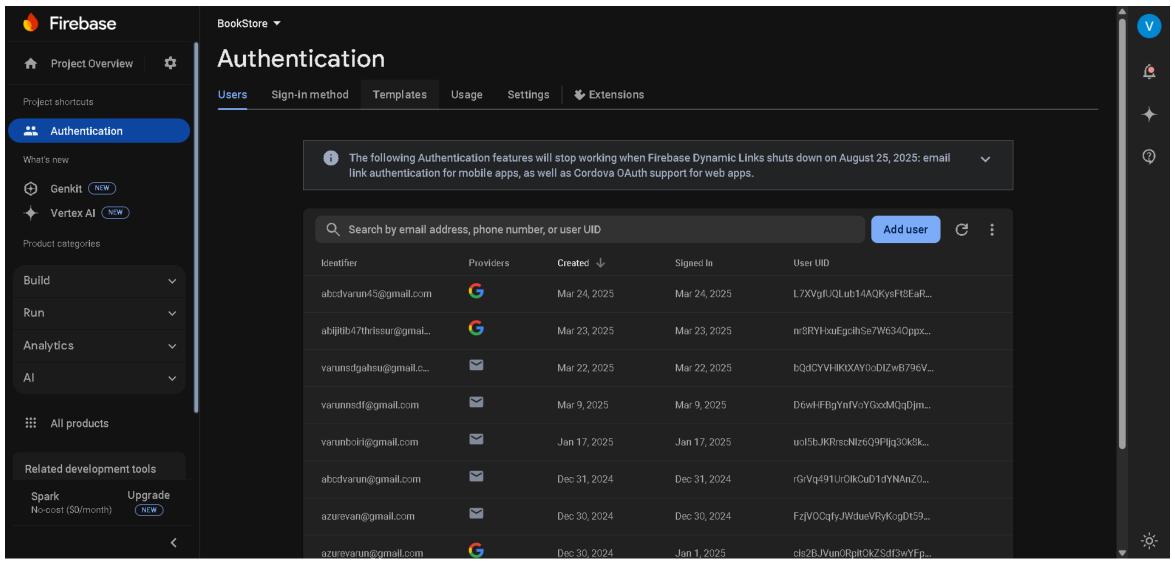
Managing/Modifying Book Details

All Books					
#	BOOKTITLE	CATEGORY	PRICE	ACTIONS	
1	Find a Sponser	business	₹499	Edit Delete	
2	The Future Is Faster Than You	technology	₹411	Edit Delete	
3	Right Behind You	horror	₹195	Edit Delete	
4	The Wind on Haunted Hill	horror	₹150	Edit Delete	
5	Standing Out while Blending In	business	₹1175	Edit Delete	
6	DANDADAN	fiction	₹270	Edit Delete	
7	VINLAND SAGA	fiction	₹580	Edit Delete	
8	BLEACH	adventure	₹370	Edit Delete	
9	Haikyuu	adventure	₹350	Edit Delete	
10	NARUTO	fiction	₹450	Edit Delete	
11	ATTACK ON TITAN	fiction	₹1100	Edit Delete	
12	ONE PIECE	fiction	₹600	Edit Delete	

Database Management using MongoDB



User Authentication using Firebase



THANK YOU