BookHaven

your escape from reality,
one book at a time

Project scope

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Project Scope:

The online bookstore **BookHaven** focuses on delivering a **user-friendly platform** for customers to effortlessly explore, purchase, and engage with a diverse book collection. The application would enable the customers to create an account, view their profile, order history, and preferences, and **provide feedback and ratings** for the books they buy. The customers would also get various book recommendations based on their interests and previous purchases. The project also involves managing the books' inventory, suppliers, and orders. The application would enable the suppliers to register, update their details, and upload their catalog of books. A **secure and efficient order fulfillment system** for timely book deliveries will be implemented. The application would also offer **various payment options**, such as credit card, debit card, net banking, or cash on delivery for the ease of the customers. The application would also allow the suppliers to **track the status** of their orders and shipments.

The project also requires an **admin module** that can monitor and control the overall functioning of the application. The admin module would enable the admin to add, edit, or delete books, suppliers, customers, and orders. The admin module would also provide various reports and analytics on sales, revenue, customer feedback, and supplier performance.

Overall, The database will facilitate the **smooth operation** of user roles, including customers, vendors, and administrators, ensuring **a comprehensive and tailored user experience**.

Tech Stack:

- Frontend: Cascading Style Sheets, HTML & NodeJS
- Backend: JavaScript, Python
- Database: MySQL

Functions & Activities:

- **Homepage**: The application will open up to a homepage moving from where users can login/sign up and browse collections.
- **Login/SignUp**: Users can login/sign up for the website through their Email and password.
- **Browse Collections**: Users can browse collections of the available books on the website.
- **View/generate Cart**: Users can add their required books to the cart and view it anytime. To add a book to their cart the user will be required to login/sign up if not done so already.
- **Buy Books**: Once the user adds a book to the cart they can checkout and the inventory will reflect the purchase.
- **Payment Options**: Users can pay using a variety of payment methods available like UPI/credit-debit cards/Pay on Delivery(POD) etc.
- **Download free pdf**: Once the payment is complete, users can download password protected pdfs of their purchased books.
- **Submit Feedback**: Users can submit ratings and reviews for their purchased books.

Technical Requirements:

- The project would use a relational database management system(RDBMS) such as MySQL to store and retrieve the data from the platform.
- Each user needs to be uniquely identified, which can be done by letting them create their account with their Emails/Contact numbers.
- Users can view/generate their cart only after logging in.
- The User can have multiple addresses and can order multiple books at once.
- There is a need to store the inventory, price, and availability of each book from each vendor.The inventory needs to be updated after each order and display “Out of Stock” once the quantity runs out.

- User password needs to be stored securely. The same password can be used to protect their downloaded pdfs.
- Implementing an Email subscription service for customers to receive updates on upcoming releases and exclusive offers. Also may include a loyalty program to reward frequent customers.
- There is a need for an extensive sorting and searching method to allow the user to browse books on the basis of their preferred genre, author, price, ratings etc.
- Allowing the customers to submit reviews and ratings for books they have purchased and reflecting the average rating of a book.
- Focus on ACID transactions. The entire transaction takes place at once or does not occur at all. The database remains consistent before and after a transaction takes place. Multiple users can conduct transactions independently without interference. Changes of a successful transaction should occur even if system fails.

Additional Scope:

- Maintaining a database of vendor information, like name, contact, author/genre etc. Different vendors can offer the same books.
- Admin can assign utmost one delivery person for a particular address area.
- Refilling the inventory once it falls below the bare minimum value decided, by contacting the respective vendor.
- Allow users to donate books through BookHaven for a good cause(like forwarding it to an NGO) and earn reward points accordingly.

Contribution:

- Aaradhya Verma (2022004) - Ideation, Functions & Activities, Project Scope

- Mohmmad Ayaan (2022302) - Ideation, Technical Requirements, Project Scope
- Ritika Thakur (2022408) - Functions & Activities, Technical Requirements, Project Scope