E-COMMERCE PROJECT REPORT

E-Book Store

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1. Project Name:

E Book Store

2. Team:

صلاح حسن السيد السيد حسين

حسن فتحي ابراهيم ابو سرية

عادل عبدالناصر حموده فايد

احمد اسامه احمد امبابي

3. Project Details:

Mission Statement:

Our mission is to create a user-friendly, secure, and responsive online eBook store that enables users to easily browse, compare, and purchase eBooks. We aim to provide a seamless shopping experience with advanced features such as book comparisons, detailed specifications, user reviews, and a dynamic shopping cart.

Target Audience:

- Tech-savvy individuals seeking detailed book comparisons and reviews.
- Young adults and professionals (aged 18–40) who prefer online shopping.
- Students and hobbyists interested in affordable eBooks.
- Shoppers who value convenience and transparency in book information.

Intended Marketplace:

- The online eBook market.
- Small to medium-sized eBook retailers seeking a digital platform.
- Regions with growing e-commerce activity, particularly in urban areas with high demand for eBooks.

Strategic Analysis:

- **Strengths:** Full-stack implementation (frontend + backend), key features like filtering, sorting, cart, reviews, and comparisons, responsive design for mobile and desktop users.

- **Weaknesses:** Currently in prototype stage, may require UX testing and performance optimization, limited backend scalability (can be improved with cloud hosting or caching systems).

- **Opportunities:** Potential to integrate payment gateways and shipping APIs for real-world use, possibility to expand into a commercial business or startup, social media integration for marketing and engagement.

- **Threats:** High competition in e-commerce platforms, security vulnerabilities if not continuously maintained, current reliance on local storage for features like reviews and wishlist.

Development Timeline:

Phase	Tasks	Duration
Planning	Requirements gathering, feature listing	1 Day
Design	UI/UX design using Bootstrap	1 Day
Frontend Development	Book listing, filtering, sorting, cart, comparisons, reviews	2 Days
Backend Development	Authentication, book APIs, cart logic, review APIs	2 Days
Testing & Debugging	Functional testing, responsiveness check	1 Day
Final Touches	Performance tuning, responsive design optimization	1 Day
Total	—	8 Days

4. Technical Details:

Frontend:

- **React:** Modern JavaScript library for building dynamic and interactive user interfaces.
- **Bootstrap:** For clean, responsive, and consistent UI design across devices.
- **CSS:** Custom styles to enhance the visual appeal and layout of the application.
- **React Router:** For page navigation and routing within the single-page application.
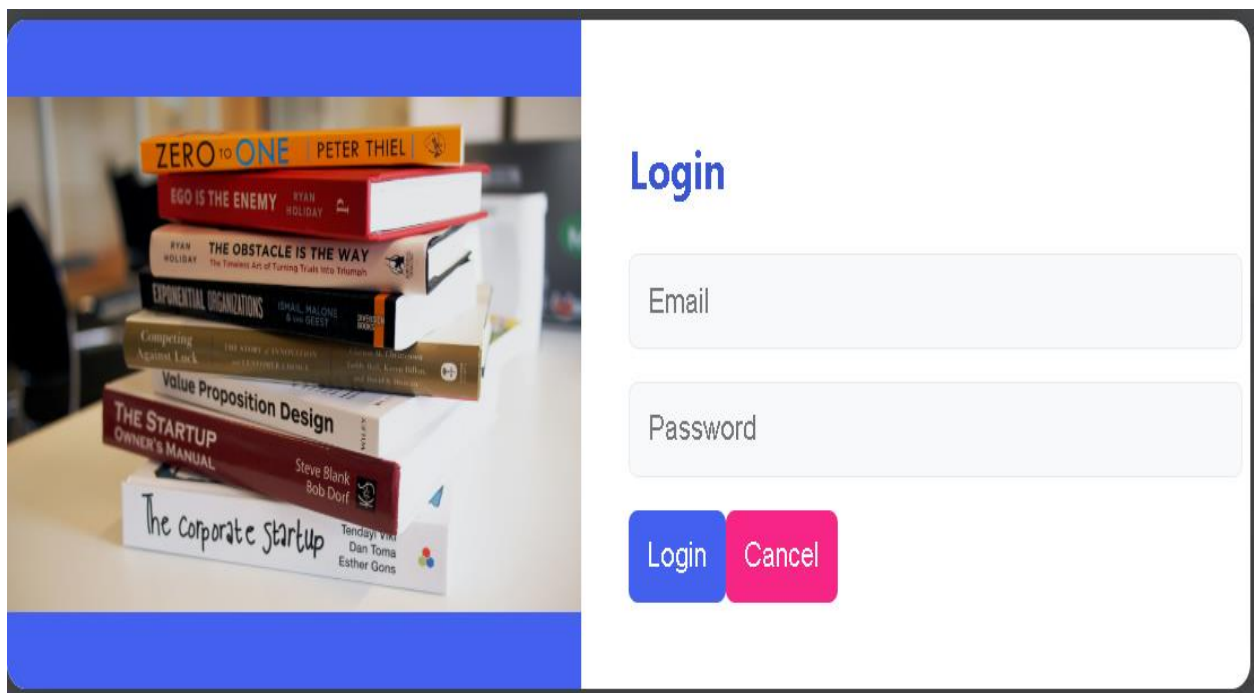- **Axios:** For API integration and data fetching from the backend.

Backend:

- **Node.js with Express.js:** For developing scalable RESTful APIs.
- **MongoDB:** NoSQL database for storing user, book, cart, and review data.
- **JWT:** For secure user authentication and session management.
- **RESTful APIs:** To manage users, books, shopping cart, and reviews.

Core Features:

- **Book Filtering:** Filter books by category, price, or author.
- **Sorting:** Sort books by price or rating.

- **Shopping Cart:** Manage item quantities and view cart contents.
- **Book Reviews:** Star-based rating system for user feedback.

- **Book Comparison:** Compare up to 4 books side-by-side.

- **Responsive Design:** Fully responsive layout for mobile, tablet, and desktop devices.

- **Demo Checkout Flow:** Simulated checkout process with a confirmation step.

- **Order Creation:** Store order details after checkout for processing.
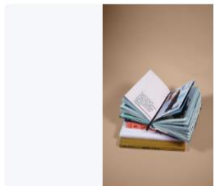
6. Images:

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E-Book Store

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Select Category ⌄   **Add Book**

React for Beginners

Author: John Doe

Category: Programming

Price: $20.00

Average Rating: No ratings

1 Star ⌄ | Add a com | **Submit Rating**

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Mastering JavaScript

Author: Jane Smith

Category: Programming

Price: $25.00

Average Rating: No ratings

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CSS in Depth

Author: Emily Johnson

Category: Design

Price: $15.00

Average Rating: No ratings

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React for Beginners

John Doe

20

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Programming ⌄

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localhost:3000 says

Are you sure you want to delete this book?

OK   Cancel

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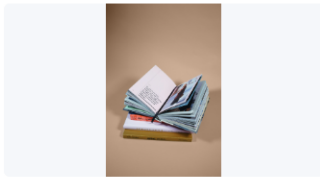
Home   Books   Categories   Cart³   Login   Register   🌙

Design Systems

Author: James Clark

Category: Design

Price: $26.00

Average Rating: No ratings

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Fullstack Development

Author: Alice Walker

Category: Programming

Price: $28.00

Average Rating: No ratings

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HTML & CSS Design

Author: Michael Brown

Category: Design

Price: $18.00

Node.js Essentials

Author: Linda Green
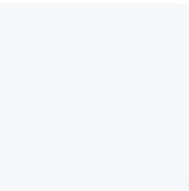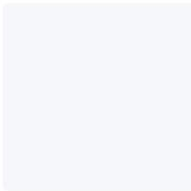
Category: Programming

Price: $22.00

Advanced React Patterns

Author: Chris Wilson

Category: Programming

Price: $30.00
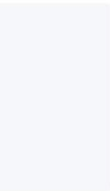
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Design Systems

Author: James Clark

Category: Design

Price: $26.00

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Fullstack Development

Author: Alice Walker

Category: Programming

Price: $28.00

| Add to Cart | ♥ | Share |

Shopping Cart

Node.js Essentials	Author: Linda Green	Price: $22.00	Quantity: 8	Remove
Advanced React Patterns	Author: Chris Wilson	Price: $30.00	Quantity: 2	Remove
HTML & CSS Design	Author: Michael Brown	Price: $18.00	Quantity: 5	Remove

Total: $326.00

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