

PROJECT SYNOPSIS REPORT

ON

The Book Bazaar - Marketplace for buying and selling books at great prices

SUBMITTED

TO

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FOR

Back End Engineering(22CS026)

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Problem Statement

Many readers struggle with the high cost of new books and often face difficulties in finding affordable options to purchase or sell pre-owned books. Additionally, book lovers are often unaware of platforms that allow them to easily exchange books with others, leading to unnecessary waste and missed opportunities for accessing affordable literature. There is a need for a reliable, user-friendly marketplace where individuals can buy, sell, or trade books at reasonable prices, fostering a community of readers and promoting sustainable book circulation.

Title of project:

The Book Bazaar - Marketplace for buying and selling books at great prices

Objective

To develop a web-based **BOOK STORE** that allows users to buy and sell books at reasonable prices using the **MERN stack**.

Key Learning:

1. **Full-Stack Development:** Building both front-end and back-end with React.js and Node.js.
2. **Database Management:** Using MongoDB to manage and store health-related data.
3. **Authentication & Security:** Implementing secure user login with JWT and Bcrypt.
4. **API Development:** Creating RESTful APIs for smooth data interaction.
5. **Deployment:** Deploying the application on cloud platforms like Heroku.
6. **UI/UX Design:** Creating a responsive, user-friendly interface with React and Bootstrap.

Options available to execute the project

1. Standalone Web Application

- Description: Build a fully functional web app that users can access through browsers.
- Technologies: MERN Stack (MongoDB, Express.js, React.js, Node.js), JWT for authentication.
- Execution: Develop a complete front-end and back-end, including APIs for logging health data, prescriptions, appointments, and symptom tracking.

Advantages/Disadvantages

Advantages:

1. **Affordable Books** – Users can access books at lower prices compared to new retail options.
2. **Sustainability** – Promotes recycling and reusing books, reducing waste.
3. **Community Engagement** – Encourages a community of book lovers to share and trade.
4. **Wide Selection** – Offers a variety of books, including out-of-print and rare editions.
5. **Convenience** – Easy online platform to buy, sell, or trade books.

Disadvantages:

1. **Quality Variations** – Pre-owned books may have wear and tear.
2. **Limited Availability** – Not all titles may be available at any given time.
3. **Shipping Costs** – Additional charges for shipping may increase overall price.
4. **Trust Issues** – Risk of fraud or unreliable sellers/buyers.
5. **No Instant Gratification** – Unlike in-store purchases, waiting for delivery can take time.

REFERENCES

Here's a **short list of references** for your project:

1. **MongoDB Documentation** – MongoDB, Inc. (2023). *Official MongoDB documentation*.
<https://www.mongodb.com/docs/>
2. **Express.js Documentation** – Express.js Foundation. (2023). *Express framework for Node.js*.
<https://expressjs.com/>
3. **React Documentation** – React Team. (2023). *React library for building user interfaces*.
<https://reactjs.org/docs/getting-started.html>
4. **Node.js Documentation** – OpenJS Foundation. (2023). *Node.js runtime environment*.
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