K.R. MANGALAM UNIVERSITY

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Book Bazar

Minor Project Report
Submitted by

ROLL	NAME
2401560028	Neha Chaudhary
2401560066	Shristi Kumari

Industry Mentor:

Faculty Mentor: Kriti Sharma

Project Overview

The **Book Bazar** project is a comprehensive full-stack web application designed to provide a seamless platform for buying and selling books.

- **User Authentication**
- **Book Listings**
- **Cart and Order Management**
- **AI-Powered Rasa Chatbot**
- **Responsive Design**
- **Backend API**
- **Database**

Specific Objectives

- Create an easy-to-use platform where users can buy and sell second-hand books.
- Implement secure and scalable features using the MERN stack
- Build a responsive UI to enhance user experience across devices.
- Provide users with advanced search, filter, and categorization options for easy book discovery.
- Enable sellers to manage their listings and buyers to track their purchases
- Ensure user data security through authentication and safe transactions.

Key Features

1. **User Authentication:** Sign-up and login functionality using JWT (JSON Web Tokens) for secure user sessions
2. **Buy and Sell Old Books:** Users can post listings with book details (title, author, price, condition, etc.) and images.
3. **Search and Filters:** Advanced search options by genre, author, title, and price range.
4. **Responsive Design:** Optimized for both desktop and mobile users.
5. **Real-time Notifications:** Buyers and sellers receive notifications about sales and inquiries.
6. **Rating and Reviews:** Buyers can leave ratings and reviews for sellers.
7. **Payment Integration:** Secure payment gateways for transactions.

Project Usecases & Scope

1. **Target Audience:** College students, avid readers, or individuals who want to sell or buy old books at affordable prices.

2. **Use Case:** A user signs up, creates a listing for an old book, provides details (condition, price), and submits it. Another user searches for books, filters by genre or price, views the listing, contacts the seller, and completes the transaction.

3. **Scope:** The project can scale to include a review system, AI-powered recommendations, or integration with social media for wider exposure. The platform could evolve into a full-fledged marketplace for books, even new or rare editions.

Prototype/Project Flow diagram/ Architecture

1. **Landing Page -** Users are welcomed by a search bar and featured listings.
2. **User Authentication -** Users can sign up or log in to manage their book listings or purchase books.
3. **Browse/Search for Books -** Users can browse books by categories or use the search functionality.
4. **Book Listing -** Sellers can list books for sale with details (images, price, condition, description).
5. **Book Details Page -** Buyers view book details, ratings, seller information, and can proceed to purchase.
6. **Transaction -** Payment processing and order completion, followed by delivery instructions

Methodology

Frontend: React.js will be used to build the responsive and interactive user interface. React Router will handle navigation, while Redux or Context API will manage state.

Backend: Node.js and Express.js will create a robust API to handle user requests, while MongoDB will be the database to store book listings, user information, and transaction details.

Rasa Chatbot: AI integration to provide real-time customer support.

Deployment: The project will be hosted on platforms like Heroku or Netlify for frontend and backend, with MongoDB Atlas for cloud database hosting.

Expected Results & Impact

- Simplified process for buying and selling books online, making it easier for students, readers, and educators to access books affordably.
- Encourages collaborative team development with roles like **frontend developer**, **backend developer**, and **AI specialist.**
- Fast-loading pages and an interactive interface for an enhanced shopping experience.

THANK YOU