



# Bookstore Project Presentation

DEVELOPED USING MERN STACK

# Introduction

- ▶ • Project Title: Bookstore Webpage
- ▶ • Team Members:
  - ▶ - Dhirubhai: Full Stack Developer
  - ▶ - Karan: Frontend Developer
  - ▶ - Mohammed Kaif: Backend Developer
  - ▶ - Aakash: Frontend Developer

# Project Overview

- ▶ Purpose:
  - ▶ 1. Provide an online platform to find and purchase books.
  - ▶ 2. Enhance user experience with responsive design.
  - ▶ 3. Secure user data and payment transactions.
  - ▶ 4. Support admin for inventory and order management.
- ▶ Features:
  - ▶ • User management, book catalog, and order management.
  - ▶ • Admin panel, secure payments, and scalable architecture.

# Architecture

- ▶ Frontend:
  - ▶ - React.js with Tailwind CSS for responsive UI.
  - ▶ - Dynamic updates using JavaScript.
- ▶ Backend:
  - ▶ - Node.js and Express.js for server logic.
  - ▶ - Mongoose ODM for MongoDB interactions.
- ▶ Database:
  - ▶ - Collections for users, books, orders, and cart.
  - ▶ - Handles CRUD operations and role-based access.

# Setup Instructions

- ▶ Prerequisites:
  - ▶ • MongoDB, Node.js, Express.js, and a code editor (VS Code).
- ▶ Installation:
  - ▶ 1. Install Node.js and MongoDB.
  - ▶ 2. Clone the repository and install dependencies.
  - ▶ 3. Start backend and frontend servers.
  - ▶ 4. Access the app at <http://localhost:3000>.

# Folder Structure

- ▶ Client:
  - ▶ - Components: Navbar, Footer, BookCard, etc.
  - ▶ - Pages: Home, Books, Login, Cart, AdminDashboard.
  - ▶ - Context: Auth and Cart Context for global state.
- ▶ Server:
  - ▶ - Controllers: Handle business logic.
  - ▶ - Routes: API endpoints for authentication, books, etc.
  - ▶ - Models: MongoDB schemas for User, Book, Cart, and Order.

# Known Issues

- ▶ 1. Basic search functionality without fuzzy logic.
- ▶ 2. No payment gateway integration.
- ▶ 3. Limited error handling and JWT expiry handling.
- ▶ 4. Lack of book reviews and ratings.
- ▶ 5. Mobile responsiveness for admin dashboard is suboptimal.

# Future Enhancements

- ▶ • Implement fuzzy search and case insensitivity.
- ▶ • Integrate a payment gateway.
- ▶ • Add pagination and infinite scroll.
- ▶ • Enhance error handling and mobile responsiveness.
- ▶ • Introduce book reviews and ratings.



# Conclusion

- ▶ The Online Bookstore demonstrates the potential of MERN stack for building scalable and user-friendly web applications. Future updates will enhance functionality and user engagement.