ELEVATE LABS

JAVA DEVELOPER INTERNSHIP

Project Report

on

“ RESTful Bookstore API ”

Submitted

By

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PROJECT TITLE

Bookstore Management System

OBJECTIVE

Develop a full-stack web application to manage bookstore operations where users can browse available books and admins can manage book records by adding, updating, or deleting books. The system provides a user-friendly interface with secure access control and real-time interactions between the frontend and backend.

TECHNOLOGY STACK

Layer	Technology
Frontend	Angular, HTML, CSS, TypeScript
Backend	Spring Boot, Java
Database	MySQL, JPA (Hibernate)
Tools & Others	Postman, Maven, Git

FEATURES

User Features:

- User Registration and Login System
- Browse and view the list of available books
- Search functionality to filter books

Admin Features:

- Secure Admin Login
- Add New Books with details (title, author, price, description)
- Update existing book information
- Delete books from the system

OUTCOME AND LEARNINGS

This project provided hands-on experience in building a real-world full-stack application using modern frameworks and technologies.
Key learnings include:

- Building dynamic and responsive frontends using Angular components.
- Designing robust REST APIs with Spring Boot for seamless data flow.
- Implementing database persistence using MySQL and JPA (Hibernate).
- Practicing good software development practices including version control with Git and API testing using Postman.

CONCLUSION

This project enhanced my problem-solving abilities, understanding of layered architecture, and practical knowledge of full-stack development workflows.
It served as a valuable bridge between theoretical knowledge and industry-level software development. The **Bookstore Management System** is a simple yet scalable application demonstrating CRUD operations in a real-world setting.
It strengthens my foundation in **Angular, Spring Boot, MySQL, and full-stack web development**, preparing me for professional challenges in software engineering.