

# Chapter 7

## Using Full Stack to Uplift Book Reviews in the Literary World

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### **ABSTRACT**

*The Book Review Application is a comprehensive web platform developed using React.js for the front end and Spring Boot for the back end. The application offers features such as personalized book lists, and the ability to write and rate reviews. React.js ensures a fast, interactive, and responsive user interface. Spring Boot provides a robust back end with RESTful APIs to handle book data, user information, and review submissions. MongoDB*

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*is used to store book details, user profiles, and reviews, offering flexibility for managing large and unstructured data sets. Administrators have access to manage book entries, approve or delete reviews, and monitor the platform's activity. Security is integrated through user authentication and role-based access control, ensuring that only authorized users can modify sensitive data. The application also supports real-time updates, enabling dynamic interaction between users and the system without page reloads, handles high traffic, provides scalable user-friendly environment for book enthusiasts to connect, discover, and engage in literary world.*

## **1. INTRODUCTION**

In many book review applications, users face difficulties in accessing a comprehensive and personalized experience due to poor search functionality, limited filtering options, and inadequate role-based access control. This often results in frustration when searching for books, submitting reviews, or managing book data. Additionally, administrators may struggle to maintain the book catalog and user reviews efficiently, especially as the application scales. The absence of advanced search and filter capabilities makes it hard for users to find specific books based on criteria like title, author, genre, or rating. For example, users may need to manually browse large lists of books without being able to narrow down their search effectively. Similarly, without proper role management, users may have unauthorized access to admin-level actions, such as adding, editing, or deleting books, leading to data inconsistency and security concerns.

A full-stack book review application using Spring Boot and React.js can address these issues by providing robust search and filtering features that allow users to find books based on various parameters. Additionally, implementing role-based access control with Spring Security ensures that only authorized users can perform administrative actions, while MongoDB's flexible data model supports efficient storage and retrieval of reviews, user data, and books, thus enhancing the overall user experience and security. Web designing and web development are two distinct processes that are critical to building a successful website. Web designing primarily focuses on the visual aspects of a website, including layout, colour schemes,

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