

# Book Store Web Application using Microservices based on Spring boot

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**Abstract:** *The need for effective, scalable, and user-friendly online bookstore solutions has increased dramatically in a time when digitalization is the norm. Dynamic business needs are hard to meet with traditional monolithic systems because of issues with scalability, fault tolerance, and complicated maintenance. A microservices-based bookstore application is presented in this paper, utilizing Spring Boot, Spring Cloud, and RabbitMQ to build a distributed, modular, and dynamic platform for handling user ratings, books, orders, and prices. The project makes use of Swagger for efficient API documentation and testing, as well as MySQL Workbench 8.0 CE for persistent data storage, guaranteeing dependable data management. By using a decentralized architecture that allows services to independently develop, deploy, and scale, the system overcomes the drawbacks of monolithic applications and promotes resilience and flexibility. Through this research, we explore the architectural design, communication mechanisms, and implementation strategies, highlighting the benefits and challenges associated with microservices-based solutions*

**Keywords:** Spring Boot, Microservices, RabbitMQ, Eureka, Online Bookstore, REST API, Scalability, Flexibility.