**ABSTRACT:**

The **Online Glass Purchase** application is a web-based platform developed using **Spring Boot**, providing a seamless and engaging e-commerce experience for customers looking to purchase eyeglasses and sunglasses online. The system offers a comprehensive catalog of various eyewear categories, including **prescription glasses, sunglasses, blue-light filtering glasses, and designer frames**, with filtering and sorting options based on **frame style, lens type, brand, and price**.The application integrates essential features such as **user authentication, order management, a shopping cart, and secure payment gateways**. It ensures a **responsive and intuitive user interface** using modern web technologies, offering smooth navigation and a user-friendly shopping experience. Admin functionalities include **inventory management, order tracking, and customer management**, enabling efficient operations and business growth.Spring Boot serves as the **core backend framework**, providing a solid foundation for **scalability, performance, and security**. The application is designed to be **easily maintainable and extendable**, with **RESTful APIs** for future integrations, such as **virtual try-on features, AI-powered recommendations, third-party payment systems, and customer support services**.In conclusion, the **Online Glass Purchase** system leverages **Spring Boot’s** capabilities to deliver a **robust, scalable, and user-focused platform** for selling eyeglasses and sunglasses online, ensuring a **delightful shopping experience for customers and efficient operations for the business**.