



**Eyelounge Studio** is a comprehensive eye care platform designed for optometrists, targeting professionals who need efficient patient management, test administration, and access to patient records and test results. It integrates various eye tests, patient records, and report generation, secured via HTTPS for data privacy. Built with Node.js, HTML, CSS (Bootstrap), and JavaScript, the web application provides a responsive interface for conducting eye tests and managing records, featuring a Single-Page Application design for quick navigation and streamlined workflow with secure authentication. The backend, using Express.js, handles API requests for cohesive data flow, while MongoDB offers flexible, cost-effective data storage for test results and user profiles. Integrated with SendGrid, it simplifies email notifications. Features include interactive Visual Acuity Charts, Colour Vision tests, and Contrast Sensitivity tests, along with assessments for Astigmatism and Binocular Vision, allowing real-time patient response capture and automatic result recording. Eyelounge Studio enhances eye care efficiency with a user-friendly, secure, and comprehensive system, supporting robust patient management, educational resources, and precise calibration settings for accurate tests.