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Full-Stack Development of a Global Stay Management System

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Abstract: *This paper presents the development of the "Global Stay Management System", a full-stack web application designed to replicate the core functionalities of a modern vacation rental platform. The system employs an architecture centered on Node.js, Express.js, and MongoDB (MERN elements), utilizing EJS templates for the frontend interface. The primary technical achievements include the implementation of secure user authentication using JSON Web Tokens (JWT) and bcrypt for password encryption. Furthermore, the system incorporates structured MongoDB schema management to facilitate efficient CRUD (Create, Read, Update, Delete) operations for property listings, alongside responsive design techniques (Flexbox, Grid, media queries) to ensure seamless user experience across all devices. The developed system provides a functional, secure, and intuitive platform for listing, browsing, and booking accommodations.*

Keywords: Full-Stack Development, Node.js, MongoDB, JWT Authentication, Responsive Design, EJS Templating

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