IJARSCT





International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 11, April 2025



A Hybrid Hospital Framework Using HTML, **CSS3, REACT and Mangodb for Real-Time Assistance and Data Management**

Ashwin Anil Shelke, Deep Shelke, Trushna Shelar, Tejas Shende, Shaikh Roman, Mrs. Shubhnagi Kshirsager Department of Computer Engineering Dr. DY Patil College of Engineering and Innovation, Pune, India

Abstract: The healthcare industry is rapidly going digital to improve efficiency, security, and patient care. This paper proposes a hybrid hospital management system that combines HTML5, CSS3, React.js, and MongoDB to enable real-time support and efficient data management. The system has an AI-driven chatbot for quick support, role-based access control (RBAC) for security, and workflow automation for appointments, prescriptions, and patient history. Analyses indicate 62% quicker patient registration, 37% less no-show for appointments, and 85% satisfaction of doctors, establishing its effectiveness. The architecture fills the gap between old HMS and contemporary AI-based systems, providing an easily scalable, user-friendly health management system.

Keywords: Hospital Management System, AI Chatbot, React.js, MongoDB, Real-Time Data Processing, Role-Based Access Control



DOI: 10.48175/568

