

# An Intelligent Booking Platform for Sports and Conference Halls Using IoT Integration

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**Abstract:** *The Booking System for Sports and Conference Halls with IoT-Enabled Real-Time Display project aims to enhance facility management through an integrated digital platform and advanced Internet of Things (IoT) technology. This system simplifies the booking process by allowing users to check availability, make reservations, and receive instant confirmations via a centralized interface. IoT integration introduces smart sensors and real-time displays that provide up-to-date information on facility occupancy, environmental conditions, and event schedules. These sensors continuously monitor and transmit data, which is displayed on dynamic screens within the facility. This real-time data helps both users and facility managers stay informed, reducing scheduling conflicts and optimizing facility usage. The platform supports various user roles, including administrators, who manage bookings and generate reports, and facility managers, who oversee real-time data and maintenance. End-users benefit from an intuitive booking interface and live updates on availability and schedules. Overall, this system improves operational efficiency and user satisfaction by leveraging IoT technology for real-time monitoring and data-driven insights, modernizing the management of sports and conference halls.*

**Keywords:** Booking System, Sports Halls, Conference Halls, IoT Technology, Real Time Display, Digital Interface, Data-Driven Insights

