

ABSTRACT

The TransTRACK Meeting Room Information System (InMeeT), which initially only provided meeting room booking features without analytical support, has now been developed into a web-based analytical dashboard to enhance efficiency and data-driven decision-making. This dashboard presents information such as the most frequently used meeting rooms (Top Meeting Room), usage duration (Meeting Utilization), most active users (Top User), and summary statistics including total bookings, total usage duration, unbooked capacity, and peak usage hours. The system is also equipped with filters based on office location and date range, allowing for more flexible and contextual analysis. In addition, a rule-based recommendation feature has been added to suggest room additions or maintenance based on actual usage patterns. The system development adopts a quantitative approach using descriptive statistics to objectively and comprehensively identify usage patterns.

Keywords: Meeting Room Booking, Analytical Dashboard, Descriptive Statistics, Rule-Based System, Web Dashboard.