

# Automated Smart Office Using IOT

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**Abstract:** The "Automation Office using IoT" project aims to revolutionize the traditional office environment by integrating Internet of Things (IoT) technologies to automate various office functions. The project focuses on enhancing efficiency, safety, and convenience within the workplace through the implementation of four key features: RFID-based attendance tracking, automatic fire suppression systems, adaptive lighting control, and smart parking management. The RFID-based attendance system utilizes Radio-Frequency Identification technology to streamline the process of employee attendance, eliminating manual errors and reducing administrative workload. The fire sensor feature is designed to detect fire hazards promptly and deploy an automated response to suppress fires, ensuring the safety of office personnel and assets. Light sensors are employed to manage office lighting dynamically, adjusting brightness based on natural light availability and occupancy, leading to significant energy savings. Lastly, the parking feature incorporates IoT-enabled sensors to monitor parking space availability, providing real-time information to employees and visitors, thus optimizing parking space utilization. This project not only promises to create a more responsive and intelligent office environment but also aims to contribute to the sustainability of office operations by reducing energy consumption and improving resource management. The anticipated outcome is a smart office ecosystem that fosters a comfortable, secure, and productive workspace for all users.

**Keywords:** IOT, Office, Automation, Attendance, Parking, Fire

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