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Smart Warehouse Fire Management

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Abstract: *In the modern supply chain, warehouses play a pivotal role in linking various partners and have become a competitive factor. Efficient management and resource allocation in warehouses are crucial for maintaining operational efficiency. Traditional warehouse management systems are increasingly becoming inadequate due to the dynamic nature of the market. This paper proposes a Smart Warehouse system using Internet of Things (IOT) technology to monitor, track, and control warehouse operations. The system employs various sensors, including temperature, humidity, fire, and light sensors, integrated with Arduino microcontrollers. These sensors collect real-time data, which is then transmitted to a web application for monitoring and control. The system aims to reduce manual labor, minimize losses due to environmental changes, and enhance overall warehouse efficiency. By leveraging IOT, the proposed system offers a scalable, cost-effective, and automated solution for modern warehouse management.*

Keywords: Arduino, IOT, MQ-2 Sensor, DHT-11 Temperature Humidity Sensor, Flame Sensor, Buzzer, Relay, LDR Sensor, Warehouse Management

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