

IoT Based Home Monitoring System

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Abstract: *Security is a critical aspect of modern living, and with advancements in technologies like IoT, smart home systems have become more accessible and effective. This project presents a Smart Home Security System utilizing Arduino and IoT to monitor and detect intrusions, water leaks, and abnormal temperatures. Upon detecting any abnormal activity, the system sends an SMS notification to the user. The system allows remote, real-time monitoring via a cloud-based app, providing flexibility and peace of mind regardless of the user's location. The key aspect of the project is its affordability, making it feasible for widespread use in households.*

Keywords: IoT, Home Automation, Smart Home, Home security, Remote Monitoring, Sensor Network, Smart sensors, Wi-Fi, Data Analytics, Smart Devices, Smart Management, Home Safety