

Title: Design and Implementation of a Smart Home Automation System

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Abstract: This thesis presents the design and implementation of a cost-effective and energy-efficient smart home automation system using IoT technologies. The system allows users to control various home appliances remotely via a mobile application. It incorporates sensors for environmental monitoring and provides real-time data to the user. Experimental results demonstrate the system's reliability and user-friendliness, indicating its potential for widespread adoption in modern households.