


Digital Portfolio



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PROJECT TITLE



IoT Based Smart Home Automation System



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AGEND

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- 1.Problem Statement
- 2.Project Overview
- 3.End Users
- 4.Tools and Technologies
- 5.Portfolio design and Layout
- 6.Features and Functionality
- 7.Results and Screenshots
- 8.Conclusion
- 9.Github Link



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PROBLEM STATEMEN

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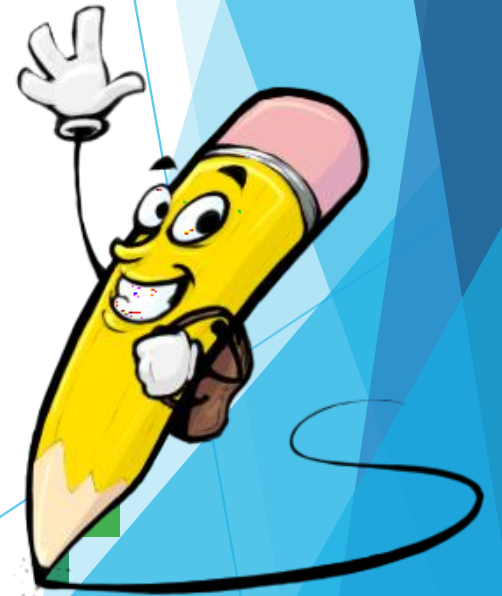
Traditional home appliances require manual operation, which is time-consuming and inconvenient. Energy is often wasted due to lights and devices being left switched on. There is a need for a smart system that can automate and remotely control appliances.



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PROJECT OVERVIEW

This project is about developing a Smart Home Automation System using IoT. The system allows users to monitor and control home appliances like lights, fans, and electrical devices through the internet, using smartphones or computers.



WHO ARE THE END USERS?

Home Owners

Offices and Small
Businesses

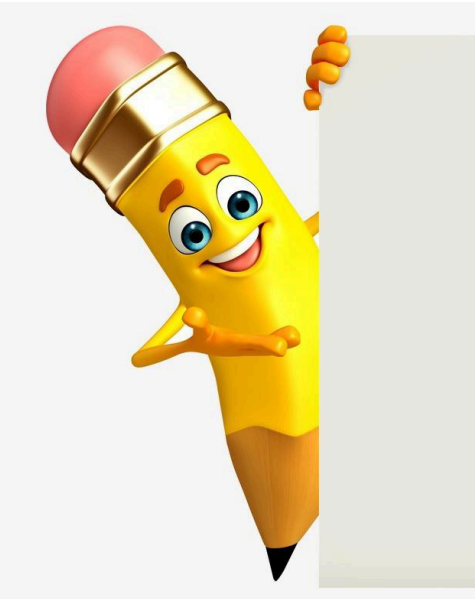
Elderly and Disabled People

Smart City Developers



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TOOLS AND TECHNIQUES



■ Login Page (for secure access)

Dashboard to control appliances

Sensor status display (temperature, light, motion)

■ Automatic and Manual control modes ■



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FEATURES AND FUNCTIONALITY

Remote control of appliances using mobile app

Automatic ON/OFF based on sensor inputs

Energy-efficient operation

Real-time monitoring of device status

User-friendly dashboard



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RESULTS AND SCREENSHOTS



Successfully controlled appliances remotely

Reduced unnecessary energy usage


Screenshots of the IoT app interface showing appliance control buttons



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CONCLUSION



The IoT-based Smart Home Automation System improves convenience, enhances security, and saves energy. It is cost-effective, scalable, and can be expanded to control multiple appliances in smart cities.



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