



Bahria University
Discovering Knowledge

FINAL YEAR PROJECT REPORT

A SMART HOME APPLIANCES POWER MANAGEMENT FOR HANDICAPPED AND ELDER PEOPLE

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A SMART HOME MANAGEMENT FOR HANDICAPPED AND ELDER PEOPLE **ACKNOWLEDGEMENTS**

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A SMART HOME APPLIANCES POWER MANAGEMENT FOR HANDICAPPED AND ELDER PEOPLE

ABSTRACT

As compare to the other healthy people Elderly and disabled people are more likely to face the difficulties performing their everyday. Elderly and disabled people can be supported by using Smart homes, providing them secure, safe, and controlled environments. Statistics shows that there is 4.4% of population belongs to elderly people. And then there is 18.93% of population that belongs to crippled, most of the people among them requires assistance to accomplish their personal day to day needs. The system allows the users to be able control the appliances with least physical effort. Moreover the home applications and appliances requires high energy making homes to be considered as critical area for impacting energy consumption, so smart home power management system can save the power from wastage.

The system allow users to switch the appliances ON and OFF just by sending message command by android app or SMS with the help of a cell phone.

Secondly the project uses an android application and messaging to regulate electrical loads. The system also uses the Bluetooth input signal received from the android device to control electric flow. Moreover the system can also be operated by sending the voice/speech commands via its android app. As it would be difficult for elderly and handicapped people to operate electrical switches manually each time.

The system solves the problem by an interface connecting a unit with home appliances that triggers the loads based on the input received from the device.

The device may be any simple mobile phone for SMS or android based phone. The application contains an effective user interface for providing this functionality.

This system can be used in various domestic applications controlling as well as in industrial setups, by further enhancement.

	2.1.2	A GSM, Internet and Speech Controlled Wireless Interactive Home Automation System	06
	2.1.3	Smart Home Appliances Using GSM	09
	2.1.4	Design and Implementation of Home Automation System	10
	2.2	Smart Home Appliances System Using Bluetooth	10
	2.2.1	Bluetooth Network	10
	2.2.1.1	History of Bluetooth	ii
		How it works	iv
	2.2.1.2	Bluetooth Based Home Automation System Using	vi
DECLARATION			ii
APPROVAL FOR SUBMISSION			iv
DEDICATION			vi
ACKNOWLEDGEMENTS			vii
ABSTRACT		Home automation using voice	viii
TABLE OF CONTENTS		Low power consuming voice based home automation	ix
LIST OF TABLES		containing RF-ZigBee	xii
LIST OF FIGURES		Home automation system based on voice commands monitoring system, using mobile devices	xiii
	2.1.3	Home automation for wireless environment, using client and server architectures through voice commands	12
	2.1.4	Home automation through Personal computers	13
	2.1.5	Home appliances control system, using ZigBee, by giving	14
		through household devices	14
		CHAPTERS	
1		INTRODUCTION	
	1.1	Background	01
	1.2	Problem Statements	02
	1.3	Aims and Objectives	04
	1.4	Scope of the Project	04
2		LITERATURE REVIEW	06
	2.1	Smart Home Appliances Using GSM	06
	2.1.1	A GSM, Internet and Speech Controlled Wireless Interactive Home Automation System	06
		2.1.1.1 GSM history-beginnings	06
		2.1.1.2 Technical Details	08
	2.1.2	Bluetooth Based Home Layout Monitor	27

2.1.2	A GSM, Internet and Speech Controlled Wireless Interactive Home Automation System	08
2.1.3	Smart GSM Based Home Automation System	09
2.1.4	Design and Implementation of Home Automation System	10
2.2	Smart Home Appliances System Using Bluetooth	10
2.2.1	Bluetooth Network	10
2.2.1.1	History of Bluetooth	11
2.2.1.2	How it works	11
2.2.2	Bluetooth Based Home Automation System Using Cell Phone	11
2.3	Home automation using voice	12
2.3.1	A low power consuming voice control home automation system using RF-ZigBee	12
2.3.2	Home automation system based on voice command and monitoring system, using mobile devices.	13
2.3.3	Home automation for wireless environment, using client and server architecture through voice commands	13
2.3.4	Home automation system through Personal computers	13
2.3.5	Home appliances control system, using ZigBee, by giving voice commands through handheld devices	14
2.4	Android	16
2.4.1	History	16
2.4.2	Features	18
3	DESIGN AND METHODOLOGY	20
3.1	Components	20
3.3	Software Used	25
3.4	Working	25
3.4.1	GSM Based Module	25
3.4.1.1	Through SMS	25
3.4.1.2	Through Android	27
3.4.2	Bluetooth Based Button Layout Module	27

	3.4.3	Voice Based Module	28
4		DESIGN AND IMPLMENTATION	29
	4.1	Flowchart	29
	4.2	Block/Circuit Diagram	30
	4.3	Circuit Images	31
	4.4	Project Coding	32
	4.4.1	Coding for arduino	32
	4.4.2	Coding for android	38
	4.4.3	Description of Android Code	63
5		RESULT AND DISCUSSION	65
	5.1	Comparison Between GSM Based SMS Module and Bluetooth Module	65
	5.1.1	GSM Based SMS Module	65
	5.1.2	Bluetooth Module	65
	5.2	Testing and Results	66
	5.2.1	Testing and Results for SMS System	66
	5.2.2	Testing and Results for Voice System	67
		5.2.2.1 For Voice system	68
		5.2.2.2 For operating by button interface	69
	5.3	End Result	71
6		CONCLUSION AND RECOMMENDATIONS	72
7		REFERENCES	73