

ANDROID BASED HOME AUTOMATION SYSTEM

Submitted in partial fulfilment of the requirements

Of the degree of

(Bachelor of Engineering)

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(2014-2015)

CERTIFICATE

This is to certify that the following students have submitted the project
report for the project titled

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At Dwarkadas J. Sanghvi College of Engineering, University of Mumbai as a
partial fulfilment of the requirements for the degree of Bachelors in Electronics
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DECLARATION

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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TABLE OF CONTENTS

CHAPTER NO.	SECTION NO.	TOPIC	PAGE NO.
		Certificate	i
		Project Report Approval for BE	ii
		Declaration	iii
		Acknowledgment	iv
1.		INTRODUCTION	01
	1.1	Software Development	02
	1.2	Hardware Development	02
2.		LITERATURE SURVEY	03
	2.1	Technical Paper 1 (IJECCT 2013)	04
	2.2	Technical Paper 2 (IJES 2013)	04
3.		SYSTEM ARCHITECTURE	05
	3.1	Block Diagram	06
	3.2	Flowchart	06
4.		APPLICATION COMPONENTS	07
	4.1	Software Elements	08
	4.2	Software Design	10
	4.3	Features of Android	10
	4.4	Application Development Elements	11
	4.5	Additional Components	12
	4.6	Life Cycle of an Activity in Android	15
	4.7	Application Elements	16
	4.8	Layouts in Android	18
	4.9	List Activity in Android	19
5.		HARDWARE COMPONENTS	21
	5.1	ARM's Mbed (FRDM-kl25z) Microcontroller	22
	5.2	GSM Module (SIM 300)	25
	5.3	5V Relay Module (Two Channels)	28
	5.4	Motor Driver IC L293D	30

6.		WORKING OF PROJECT	33
	6.1	Software Development (Application Behaviour)	34
	6.2	Shared Preferences	34
	6.3	Working of Android Application	36
	6.4	Application Screenshots	38
	6.5	Working of Hardware	41
	6.6	ARM's Mbed Online Compilation	43
	6.7	Code Snippet	43
7.		RESULTS & CONCLUSION	44
	7.1	Results	45
	7.2	Conclusion	45
8.		APPLICATIONS	46
	8.1	Applications of Home Automation System	47
9.		FUTURE SCOPE	48
	9.1	Future Scope of Home Automation System	49
10.		BIBLIOGRAPHY & REFERENCES	50
	10.1	Bibliography	51
	10.2	References	51
APPENDIX	A	IC L293D Datasheet	53

LIST OF FIGURES & TABLES

CHAPTER NO.	SECTION NO.	TOPIC	PAGE NO.
3.		SYSTEM ARCHITECTURE	05
	3.1	Block Diagram of Home Automation System	06
	3.2	Flowchart	06
4.		APPLICATION COMPONENTS	07
	4.1.3	Android Architecture (Programming Levels and OS Framework)	09
	4.4	Table: Application Development Elements	11
	4.5	Table: Additional Components	12
	4.6	Life Cycle of an Activity in Android	15
	4.7.1	Toggle Button Widget	16
	4.7.2	Text View Widget	17
	4.7.3	Edit Text Widget	17
	4.8.1	Linear Layout	18
	4.8.2	Relative Layout	18
	4.8.3	Layout Structure in Android ADK	19
	4.9	List View Layout in Android	20
5.		HARDWARE COMPONENTS	21
	5.1	ARM's Mbed based Microcontroller Board	22
		GSM Module (SIM 300)	
	5.1.4	FRDM-k125z Pin Description and I/O Ports Configuration	23
	5.2	GSM SIM 300 Module (12V/2A)	25
	5.2.2	Wireless Communication Overview	26
	5.3	Relay Module (5V/2 Channels)	28
	5.3.2	Relay Module Connections and Working	29
	5.4	IC L293D Motor Driver Configuration	30
	5.4.3	Table: Control with MCU's	31
	5.4.4	9V DC Motor	31
	5.4.5	L293D and DC Motor Assembling on Breadboard	32
6.		WORKING OF PROJECT	33
	6.3.4	Seek Bar in Android Application Environment	37
	6.4	Application Screenshots	38
	6.4.1.1	Authentication – Access Granted	38

	6.4.1.2	Authentication – Access Denied	38
	6.4.2	List View Layout	39
	6.4.3	GSM SIM Card Mobile Number	39
	6.4.4	Appliance Fan Screen	39
	6.4.5	Appliance Light Screen	40
	6.4.6	Appliance AC Screen	40
	6.4.7	Custom Layout Screen	40
	6.5.1	Hardware Assembly Screenshots	41
	6.6	ARM'S Mbed Compiler	43

ABSTRACT

This project report describes the design and implementation of a wirelessly controlled Home Automation System based on GSM Network Module and Android Application. The main objective of Home Automation and Security is to help handicapped and old-aged people to control home appliances wirelessly and alert them in critical situations. All such monitoring and control can be done without necessarily being around or inside the home.

The main control system implements wireless GSM Communications technology to provide remote access from PC/laptop or smart phone. With the help of a companion – a mobile phone, some daily household tasks can be accomplished by personifying the use of the mobile phone.

Home Automation System (HAS) has been designed for mobile phones having Android platform to automate an ARM Cortex M0+ Mbed platform based microcontroller which controls a number of home appliances like lights, fans, bulbs and many more using on/off relay.

This report presents the automated approach of controlling the devices in a household that could ease the tasks of using the traditional method of the switch. The HAS system for Android users is a step towards the ease of the tasks by controlling one to twenty four different appliances in any home environment.