ANDROID BASED HOME AUTOMATION SYSTEM

Submitted in partial fulfilment of the requirements

Of the degree of

(Bachelor of Engineering)

By

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Project Guide:

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Dwarkadas J. Sanghvi College of Engineering

(2014-2015)

CERTIFICATE

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

ANDROID BASED HOME AUTOMATION SYSTEM

At Dwarkadas J. Sanghvi College of Engineering, University of Mumbai as a partial fulfilment of the requirements for the degree of Bachelors in Electronics and Telecommunication Engineering in the year 2014 – 2015.

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PROJECT REPORT APPROVAL FOR B. E.

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Examiners 1.----------

2.----------

Date:

Place:

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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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.