PROJECT TITLE

A COURSE PROJECT REPORT

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Under the guidance of

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in

Department Name



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BONAFIDE CERTIFICATE

Certified that this project report "SMART HOME SYSTEM USING IoT " is the bonafide work of Student Name (Register no) who carried out the project work under my supervision.

SIGNATURE SIGNATURE

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1. **ABSTRACT:**

In order to help maintain comfortable living conditions within a home, home monitoring and automation are utilized. The standards of human's comfort in homes can be categorized into several types. Among these categories, the most significant ones are the thermal comfort, which is related to temperature and humidity, followed by the visual comfort, related to colors and light, and hygienic comfort, associated with air quality. A system can be set to monitor these parameters to help maintain them within an acceptable range. Additionally, making the house smart is to allow for intelligent automatic executing of several commands after analyzing the collected data. Automation can be accomplished by using the Internet of Things (IoT). This gives the inhabitant accesses to certain data in the house and the ability to control some parameters remotely. This report presents the complete design of an IoT based SMART HOME SYSTEM for smart home automation. The proposed design uses the cisco packet tracer platform for collecting and remote controlling of home appliances and devices. The selected platform is very flexible and user-friendly. The sensing of different variables inside the house is conducted using the mobile phone or the laptop, which allows the user to operate any device in the use with the help of home gateway which is connected to the WPA2 with passkey which is known as WIFI.So,the mobile phone or the laptop which has the control to either on/off any device need to be connected with the home gateway.

1. **INTRODUCTION:**

Home automation refers to handling and controlling home appliances by using micro-controller or computer technology. Automation is popular now days because it provides ease, security and efficiency. In this, a laptop/phone can operate any device in the house with the help of home gateway which connects two devices. If user is far away from home, he can access any appliances i.e. switches it on/off. User can use local PC/phone/laptop. This paper will describe approach of controlling home appliances by using IoT Monitor.

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Computer networks – Course Project Formatting Instructions

1. Chapter number and Chapter heading – font size 16, upper case, bold. 2. Space between Chapter number and Chapter heading - double spacing. 3. Space between heading and contents – double spacing.

4. Abstract heading – font size 16.

5. Content of abstract – font size 14, double spacing.

6. Sample document is given below, follow it for font size, upper/lower case , spacing 7. Sub-heading example as follows.

3.3 REQUIREMENT SPECIFICATION (Times New Roman 14) 3.3.1 Hardware Requirements (Times New Roman 12)

Processor : 2.4 GHz Clock Speed

RAM : 1 GB

Hard Disk : 500 MB (Minimum free space)

3.3.2 Software Requirements

Operating System : Windows 7

Platform : Java

Back End : MySql

Special Tools : Opencv, Xuggle

Server : Apache Tomcat

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Report Should contain minimum of 25 pages and maximum of 30 pages

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