SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057.

Department of Computer Science and Engineering

Certificate

Certified that the Project Work entitled **"HOME AUTOMATION USING IOT AND CLOUD SERVER"** carried out by **FLAVIA FRANCIS ERNANDES (1SG14CS029), HARSHITHA P (1SG14CS032), HUMA RAFFATH MAAB (1SG14CS033), KM MADHU KUMARI (1SG14CS039)**, bonafide students of **Sapthagiri College of Engineering**, in partial fulfillment for the award of **Bachelor of Engineering** in **Computer Science and Engineering** of **Visvesvaraya Technological University, Belagavi** during the academic year 2017-2018. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of **Project Work (10CS85)** prescribed for the said degree.

11/06/2018	12/06/18	12/6/18
Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**
Kamalakshi Naganna	**Dr. Yogish H K**	**Dr. K L Shivabasappa**
Associate Professor	**Professor& Head**	**Principal**

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EXTERNAL EXAMINATION:

Name of the Examiners	Signature with Date
1. MANJESH. B.N	13/6/18
2. Chaitra	13/6/18

ABSTRACT

With advancement of Automation technology, life is getting simpler and easier in all aspects. In today's world Automatic systems are being preferred over manual system. With the rapid increase in the number of users of internet over the past decade has made Internet a part and parcel of life, and IOT is the latest and emerging internet technology. Internet of things is a growing network of everyday object-from industrial machine to consumer goods that can share information and complete tasks while you are busy with other activities. An automated home is sometimes called a smart home. It is meant to save the electric power and human energy. The home automation system differs from other system by allowing the user to operate the system through internet connection. This project is based on the microcontroller.

This project present a house lighting IOT using Wi-Fi Module that employs the integration of cloud server through wireless communication, to provide the user with control of various LED strips, fans, and appliances within their home and storing the data in the cloud. The system will automatically change on the basis of sensors data. This system is designed to be low cost and expandable allowing a variety of devices to be controlled.