

Visvesvaraya Technological University, Belagavi



Project Report

on

SMART-R

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In

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To

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By

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ABSTRACT

As more and more digital appliances rule our homes, networking them to form a home automation system not only becomes an option, it is a necessity. Smart Residence(SMART-R) refers to a system that is used to control devices around the home. These devices can include doors, lights, surveillance systems, and consumer electronics. A user can control a variety of home devices with the help of SMART-R. For user convenience, a web-based home automation application has been developed providing a graphic user interface. Automated controls can turn equipment on or off, or adjust operating settings at predetermined times. Homes using these techniques, which integrate broadband connections are called Smart Homes or SMART-R.

This project presents a design and prototype implementation of SMART-R system that uses Wi-Fi technology to connect to internet. The proposed system consists of two main components; the first part is the server (web server), which presents system core that manages, controls, and monitors users' home. Second part is hardware interface module, which provides appropriate interface to sensors and actuator of SMART-R system. Unlike most of available home automation system the proposed system can manage the hardware interface modules as long as it exists on Wi-Fi network coverage.