

PROJECT ABSTRACT

- 1. Title** : Smart Home Controller
- 2. Class & Semester** : IT A, II Semester
- 3. Academic Year** : III Year
- 4. Batch Number** : II

S. No.	Student Name	Hall Ticket No.
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- 5. Organization / Place** : G. Narayanamma Institute of Technology
and Science (For Women)
- 6. Software Requirements** : Android Studio, Web Server
- 7. Hardware Requirements** : 3 Channel Relay, Node MCU, Router,
Electronic devices, Bread board, connecting wires

Abstract

The objective of this project is to implement an IOT based smart home controller and control it through the Web browser. The API connects the server and Web browser and allows it to interact and exchange data with the server. Whenever the user sends requests from Web browser, the API connects to the server and it sends request to the controller, further to which the controller performs on/off function of the device based on the request received. The smart phones add the advantage of making this process simpler and cheaper. IOT provides the necessary communication infrastructure through which information exchange is done at a faster rate. The android application running in the smart phones connects to the internet through Wi-Fi or by using wired internet connection from service providers. Similarly, the microcontroller is connected to the internet through LAN or home Wi-Fi. This project provides easy controllability of devices for elderly and physically challenged people as well. It has also been made cost effective enabling its real time implementation.

Signature of Coordinator