MUTHAYAMMAL ENGINEERING COLLEGE

*(An Autonomous Institution)*

Approved by AICTE, Accredited by NAAC,NBA & Affiliated to Anna University

Rasipuram- 637408, Namakkal(dt).

Department of Electronics and Communication Engineering

**Batch No** : 04

**Guided By**: KUMARAVEL A (AP/ECE)

# TEAM MEMBERS:

1. BHARANEESH S (19EC010)
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# INTELLIGENT DOMOTICS USING PROGRAMMABLE OBJECT

**INTERFACE**

**LITERATURE SURVEY:**

|  |  |  |  |  |  |
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| **S.**  **No** | **Year** | **Author** | **Title** | **Techniques** | **Draw Back** |
| 1 | 2017 | Neha Malik, Yogitha Bodwade | Literature review on Home Automation System | Controling and monitoring operations using smart devices. | Not cost effective and low latency |
| 2 | 2018 | Pankaj Bharadwaj, Paras Manchanda, Prashant Chahal,  Prashant Chahal, Prashanth  Chaudhary, Robin Singh. | A Review paper on Smart Home Automation. | Conserve energy in every possible way. | There is no Autonomous capabilities for emergency situations. |
| 3 | 2019 | S.Hrushikesava Raju, Dr.M.Nagabhushana Rao,  N. Sudheer, P. Kavitharani. | IOT based Home Automation System with Cloud Organization. | Home automation with proliferation of IOT. | Controlling access is limited within the Wi- Fi range. |
| 4 | 2018 | Sudha Kousalya , G. Reddi Priya, R.Vasanthi, B Venkatesh. | IOT Based Smart Security and smart Home Automation. | Using wireless techniques such as Zigbee, Wi-Fi,  Bluetooth, GSM. | Internet disconnection may lead to complete failure of the system. |

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| 5 | 2020 | Mandira Das, Pritam Das, Sandip Das, Esha Biwas | IOT based Home Automation System. | Discussed using Node MCU. | There is no Autonomous capabilities |
| 6 | 2018 | Mohammad miraj shekh, Asha S.R, Hariprakash, Harshitha. | IOT based home Automation using Node MCU | Home will be controlled by centralized micro controller and mobile application. | Up to 3 components are possible to control on mobile app |
| 7 | 2018 | Lakshmi Prasanna Polana, Sireesha Potla, Venkata Triveni Vudata, Naga Lakshmi Vuyyala, Shalini Tadi. | Home control using node MCU. | Devices are controlled using aduino operating system. | It cannot be used for high load electrical devices. |
| 8 | 2019 | Nur Amalina Binti | Home Automation based IOT | Wield by interfacing devices. | High latency noted when it controlled from long distence. |

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| 9 | 2020 | Inderpreet Kaur. | Micro controller based Home Automation System with Security. | Discussed using Node MCU. | No internet controlling options |
| 10 | 2017 | Mohamed S.Soliman, | Design and | PC with labview | Low latency |
|  |  | Ahmad A.Alahmadi, | implementation of a | platform. | during the |
|  |  | Abdulwadoud A.Maash | Real-Time smart Home |  | multiple tasks |
|  |  | and Mohammed | Automation System |  |  |
|  |  | O.Elhabib. | Based on Arduino |  |  |
|  |  |  | Microcontroller Kit and |  |  |
|  |  |  | Lab View Platform. |  |  |
| 11 | 2018 | Md.Shamsul Alam  Md. Mahafuzur  Rahaman  Md. Raihan Zaman Khan | Microcontroller based Home Automation System. | Designed using prgrammable microcontroller depend on RC-5 | Failure of microcontrolle r leads to total failure of the system. |
|  |  | Md. Yiakub Hossain |  |  |  |
|  |  | Md. Shariful Islam |  |  |  |
| 12 | 2019 | Boban Davidovic , Aleksandra Labus | A Smart Home system based on Sensor Technology. | Raspberry pi as server system and employed blutooth via user-friendly interface. | Autonomous failures may happen |

THANK YOU