



## G. Narayanamma Institute of Technology & Science (For Women) (Autonomous)

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Shaikpet, Hyderabad-500104

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

<GN-R-18> (2022 - 2023) II B.Tech II Sem Hobby Project

on

### "SMART HOME AUTOMATION SYSTEM"

#### ABSTRACT

Home automation system have become wide spread in several industries by playing a vital role in dominating many process related operations. Home automation system advances towards mechanization where by less human efforts are required by the machinery equipment of control numerous systems in homes. It involves automatic controlling of home appliances using completely different technologies and controllers over desktop, laptops, phones or tablets. The appliances include common lighting, heating, ventilation and air-conditioning electronic devices. The main goal of this project is to design a home automation system with a touch screen. In this system, the devices are controlled through the touch panel which is interfaced with the controller. Whenever we touch the touch panel it will sense and fetches this information to the microcontroller.

This home automation system lowers operating costs, improves worker safety, reduces factory lead times, it allows one to be mindful of power usage and helps them to save on energy bills. Its security features help protect the home from a disaster and this leads to the increased safety. The people who are paralysed are the most benefitted by this as they cannot move on their own and simply a mobile touch will actually do whatever they want to do. The inefficiency of operation of conventional wall switches can be modified using various home automation systems.

#### H/W Requirements:

- RAM: 8GB
- Processor: Intel Core i7
- Storage Capacity: 1TB

#### S/W Requirements:

- Language: Flutter
- Platform: Windows10
- Development Tool: Android, Ardiuno

\*Dept R&D: No

\*If No: GNITS



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