

A
Project Report
On
SMART AND SAFE KITCHEN
Submitted to
Department of
ELECTRONICS & COMMUNICATION ENGINEERING

By

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
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(Approved by AICTE, New Delhi, Affiliated to JNTUH, Accredited by NBA)

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2022-23



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project entitled "SMART AND SAFE KITCHEN" carried out by the following students of III Year B.Tech in Electronics and Communication Engineering during the academic year 2022-23.

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ABSTRACT

This project is related to the Automatic Smart and Safe Kitchen System by using Microcontroller. The system is designed to discharge heat and humidity in the kitchen by switching the fan ON. Hence, the air blower can be controlled using microcontroller based on temperature and humidity sensor. In addition, this finding makes human works become easy and system that automatically controlled and function will be developed. This project is implemented by using ATMEGA 328 microcontroller circuit and direct current motor to create the process of removing heat and humidity. Further our system also provides Smart grocery level management using Internet of Things (IoT). The smart containers which are incorporated with sensors are used to collect the data about grocery level in it. This data is stored in the cloud platform accordingly with the help of Wireless protocol. This process takes place daily. The information includes the stock level of item, item which need to buy and the quantity need to buy and item which we use often etc. This information can be viewed through the Mobile application based on which the user can be provided with inputs based on which the order for a particular item can be placed. If we connect the system to the cloud of shop owner, we don't even need to go to the shop we can make delivery to our doorstep.



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