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SAWANGI (MEGHE), WARDHA

DEPARTMENT OF ELECTRONICS ENGINEERING



"The Novel Approach to Detect Contacted People with Covid +ve Person Using IOT"

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Abstract: The world is facing a dangerous pandemic and it is a transmissible virus that infects people who came in contact with the infected person and with the things used by them. Many industries see huge economic losses, and businesses are going ruined. Although, unlock process is started still many industries facing problems due to the increasing rate of Covid positive patients, it is not possible to close working after the detection of individual positive employees. Also, it is difficult to find contacted employees with Covid positive employees. It became a challenging task to find out how many people came in contact with the infected people. So, to make this process somehow easy we have designed a small device. In this paper, we have described the smart pendent a small device that helps to detect how many people come in contact with the coronavirus infected person. It is a wearable RF device in the form factor of a Pendant, suitable for powering a smart RF device. An experimental comparison between multistage Cockcroft-Walton and Dickson RF-DC converters shows that the Dickson topology offers higher efficiency at high input. Power transmitter.

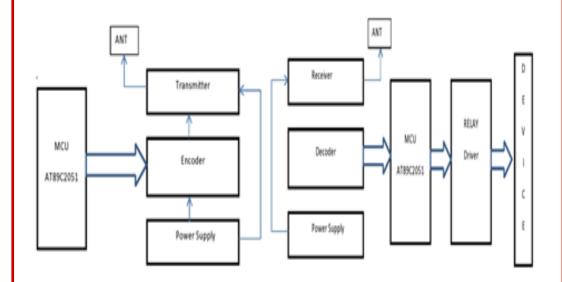
Introduction:

The global population is in front of the deadly coronavirus diseases. This disease is caused by the virus named coronavirus which has the same symptoms as viral fever, cough, etc. but it attacks some internal organs also such as respiratory organs, and makes them weak. This virus is transmissible and can infect one person to another. If any person comes in contact with the infected person or the things used by the infected person he or she gets infected. Also, it was a difficult task to find out how many people came in contact with the infected person. Hence UNO guided to lockdown countries where there is a red zone to break the coronavirus chain. This affected economic sectors like industries, MNC's, banks, etc. Many industries see enormous financial sufferers, and businesses are going penniless. The process of work from home started. This made huge losses for the companies. Then the question arises if there was something, some device which helps to detect how many people come in contact with the infected employee it would be easy in place of telling the entire employee to work from home only the people who were in contact will be made to work from home

Conclusion:

This paper describes the smart pendent a small device that is used for finding with whom and how many people a coronavirus infected person came in contact with. This will make the detection process easy and the management can take required action as early as possible. Thus the employees except infected employees can work in an office and this will maintain the discipline of the office as well as the economic growth.

Block diagram:



Implementation/ Designs:



Working:

The Smart pendant is divided into two parts transmitter section and the receiver section. The transmitter section consists of a transmitter, encoder, power supply, and transmitting antenna, and all the operations are controlled by MCU. The receiver section consists of the receiver, encoder, power supply, relay driver, and receiving antenna. The smart pendant has both a transmitter and receiver section. When one pendant comes in the nearby range it will alert the pendant automatically and starts the operation of exchanging the identity data. This data is then processed and sent to the server data room where it is saved for further process. If any employee gets infected then just enter details of the employee in the application and find out with how many people he or she came in contact with and take the required action as early as possible. All the data is saved in the server and can be accessed by the application linked with it.

Implementation results:

After the completion of this project the following results can be obtained:

• Whenever the employee entered in company the pendent connect to the server and the other employee automatically. Data is tore to the server automatically.

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		Mayuresh	Parkhi	Mayuresh Parkhi	8378002707	mayuresh@gmail	Microtron	Somalwada	Negpur	123456	13-05-202
Issue Device Return Device		Vedant	Nimbarate	Vedant Nimbarate	7709092864	vedant@gmail.com	Microtron	Somalwada	Negpur	54644	13-05-202
		Pereg	Raut	Parag Raut	9970144804	parag@gmail.com	DMIETR	sai nagar	wardha	22123	20-05-202
		Sameer	Meghe	Sameer Meghe	8378002707	sameer@gmail.com	DMIETR	Rem Neger	Wardha	56423	20-05-202
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Program Outcome (PO's)

PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12		
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