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IOT Based Full Body COVID Sanitizer and Count Analysis

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Abstract: *Covid-19 is a serious pandemic which the entire world is facing at present. As a measure of prevention from the deadly virus whose vaccine is not yet available, WHO recommends application of alcohol based sanitizers (60% alcohol content) to parts which are expose to the virus. People are using hand sanitizers to wash hands frequently which have been proved effective till date. Since sanitizers are effective in preventing covid-19, it would be a good idea to sanitize the whole body. In this research, development of a short tunnel which sprays sanitizers when people pass through it is designed. The Smart Disinfection and Sanitation Tunnel is a demonstration of how It has been designed to provide maximum protection to people passing through the tunnel in around 15 seconds. Which can help the community to fight against the COVID-19. The main idea of this project is to make a tunnel that can try and prevent the spread of COVID-19. This disinfection and sanitation tunnel is prepared in order to sanitize people within 15 seconds from any possible bacteria. This tunnel can disinfect a person fully from head to toe in a time span of just 15 seconds and the solution used is completely harmless.*

Keywords: Disinfection Tunnel, IOT web server, Count Analysis, PIC Microcontroller, Full Body Sanitization.

REFERENCES

[1]. Ahmad, S. (2020), "A review of COVID-19 (Coronavirus Disease-2019) diagnosis, treatments, and prevention", Eurasian Journal of Medicine and Oncology, Vol.4 No.2,pp. 116-125.
[2]. Dabh, M.D. (2016), "Geofencing: a generic approach to real- time location based tracking system",IRACST – International Journal of Computer Networks and Wireless Communications, Vol. 6 No. 6.
[3]. El Majid, B., Motahhir, S., El Hammoumi, A., Lebbadi, A. and El Ghzizal, A. (2020)," "Preliminary design of a smart wristband disinfectant to help in covid-19 fight", Inventions,Vol.5No.3.
[4]. Gupta, M., Abdelsalam, M. and Mittal, S. (2020), "Enabling and enforcing social distancing measures using smart city and its infrastructures: a COVID-19 use case", arXiv:2004.09246 [cs.CY].
[5]. Joshi, J.R. (2020), "COVSACK: an innovative portable isolated and safe COVID-19 sample collection kiosk with automatic disinfection",Trans Indian Natl. Acad. Eng, Vol. 5 No. 2, doi: 10.1007/ s41403-020-00139-1.
[6]. Kim, S.I. and Lee, J.Y. (2020), "Walk-through screening center for COVID-19: an accessible and efficient screening system in a pandemic situation", Journal of Korean Medical Science, Vol. 35 No. 15, doi: 10.3346/jkms.2020.35.e154.
[7]. Takagi, G. and Yagishita, K. (2020), "Principles of disinfectant use and safety operation in medical facilities during coronavirus disease 2019 (COVID-19) outbreak", SN Comprehensive Clinical Medicine,Vol.2No.8,doi:10.1007/s42399-020-00413-x.
[8]. Lippi, G., Adeli, K., Ferrari, M., Horvath, A.R., Koch, D., Sethi, S. and Wang, C. (2020), "Biosafety measures for preventing infection from COVID-19 in clinical laboratories: IFCC taskforce recommendations", Clinical Chemistry and Laboratory Medicine (CCLM), Vol. 58 No. 7, pp. 1053-1062, doi: 10.1515/cclm-2020-0633.

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[9]. Mohite, S.P., Nair, A. and Shaikh, N. Mr. (2016), "Geofencing and location based reminder services", International Journal of Advance Engineering and Research Development, Vol. 3 No. 10.

[10]. Murthy, G.S. (2020), "An automatic disinfection system for passenger luggage at airports and train/bus stations", Trans Indian Natl. Acad. Eng,Vol.5No.2,doi:10.1007/s41403-020- 00131-9.

[11]. Takagi, G. and Yagishita, K. (2020), "Principles of disinfectant use and safety operationin medical facilities during coronavirus disease 2019 (COVID-19) outbreak", SN Comprehensive Clinical Medicine,Vol.2No.8,doi:10.1007/s42399-020-00413-x.