Touchless Token Generation for Hospitals (Computer Vision)

Abstract

Touchless token generation for hospitals is a software solution enabling hospitals to effectively manage appointments of walk-in patients and pre-booked patients by assigning them tokens without touching screen or any objects. It helps in reducing wait times, increasing customer satisfaction and reducing spread of contact diseases . In the current scenario, it is equally important to have an automated system and avoiding spread of diseases through unsanitary touch . The proposed system can be used to overcome the existing manual token dispenser by employing webcam or a built-in camera for capturing of hand gestures and hand tip detection using computer vision to generate tokens. The algorithm used in the system makes use of the machine learning algorithm. Based on the hand gestures, the computer can be controlled virtually and can perform token generation without the use of the physical mouse or keyboard. The algorithm is based on deep learning for detecting the hands. Hence, the proposed system will avoid COVID-19 or any other contact disease spread by eliminating the human intervention and dependency of devices to control the computer.

Reference

1. M. Ranawat, M. Rajadhyaksha, N. Lakhani and R. Shankarmani, "Hand Gesture Recognition Based Virtual Mouse Events," 2021 2nd International Conference for Emerging Technology (INCET), 2021, pp. 1-4, doi: 10.1109/INCET51464.2021.9456388.

Submitted By:

Surya S
S4 MCA
Roll.no:66

Submitted On: 27/04/2022