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Project Background**

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To Dr: Ahmed El-Mahalawy

Project Name:

Face Attendance System & Temperature Detection

Project Background:

Having an efficient attendance system is important in every organization. Therefore, we create our unique system which we named it (Face Attendance System & Temperature Detection). It is a system with camera to detect the faces and take the attendance and it also provides temperature detection to measure the temperature with alarm to alert when the person's temperature is higher than the average. Moreover, we will create a mobile application to follow employee's attendance with it. The system compares between the photo of the person in the database and the person who standup in front of the camera. At the same time, it takes the temperature with the temperature detection device. In case the photo and the person match, the system will take his attendance. And from the application you can track your attendance.

In other attendance systems like fingerprint attendance, the system works by touching the fingerprint in the device. This means that all people who work in this organization have to touch it to take their attendance.

Now with the COVID-19 epidemic, using such a system may cause a problem because the virus can be transmitted through touching. It only takes one person have the virus to speared it in all the organization.

With our system we replace the fingerprint with a camera to take the attendance, so we reduce the risk of infection.

Another reason for creating this system is to replace the old version of the temperature measurement device that need a person to use it to take a temperature. In our system we will create a device (Temperature Detection) which take the temperature without any human help to prevent contact or being physically close with more people.

Moreover, this system will also help organization to track the number of suspected COVID-19 cases in the organization (people with temperature more than the normal average), so the organization can take the precautionary measures.