

ABSTRACT

Attendance is one of the data collection processes carried out to record attendance. Attendance is usually done in many institutions, such as at schools, to offices. In the past, attendance was done by calling the names of the participants one by one, or by recording by hand. Until now, the most frequently used attendance method is to use a fingerprint. The use of fingerprints is considered very accurate and has a fairly high level of security so it is not easy to be cheated. However, in the current pandemic era, we cannot touch objects freely. Therefore, an alternative that can be done is to use face recognition. With face recognition, attendance can be done without a touching because we only need to show the face on the camera. In this way it is considered safer, especially in the current pandemic era.

Basically, facial recognition in this program converts or encodes images into numbers in the form of an array. This number will be used as a comparison for facial recognition. The results of the recognition are influenced by several factors such as the use of accessories on the face, lighting, and taking pictures in the database. These factors can increase and/or decrease the performance of the recognition. The results of the analysis write that the facial recognition program can perform recognition up to 96.53%. The best match system can perform recognition with a high match rate the more databases there are. However, this process will also make the calculations even more time consuming.

Keyword : *Face-Recognition, Presence System, Students Attendance, Android Monitoring App*