

ABSTRACT

Employee recording system or presence is an important part in the management of an office. Various presence systems used include fingerprint recognition and face recognition. The weakness of the fingerprint system during this pandemic may be potential, while the face recognition system usually uses a camera that is shared alternately (queuing up). The relatively long response time of facial recognition may be a symptom of long queues. So we need a presence system to overcome these two problems.

In this final project, a website is created that can be used on a *smartphone* or laptop that functions as a user interface (UI) by using a laptop or smartphone camera in facial recognition to make attendance. Making this attendance system is a case study in an office. To show that attendance is done in the office area, when attending, you must activate GPS to check the distance from the office reference center point. This website records and manages attendance data. This website is made for two users, namely admin and employees. On the admin side, there are three menus, namely the dashboard, attendance data, and employee data which function to manage attendance data. While on the employee side there are home menus, absences, history, and profiles.

In the website performance test, in the functionality test, all features can run well. In the efficiency test, it obtained index B which means good with an average performance value of 84.66%. Reliability testing gets the maximum number of users that can be handled simultaneously by the website as many as 552 users. Testing the portability of the website on mobile and desktop devices, on mobile devices all looks and functions work well, but on desktop devices using the Google Chrome browser several times reading the user's location incorrectly. In the usability test, a value of 3.57 is obtained which is categorized as "fair". In the QoS test, the average delay generated is in the good category with a value of 216,07 ms. Throughput value is categorized as poor because it has an average value of 42,694 kbps. Packet Loss is categorized as very good because it has a value of 0.649%.

Key words: *website, userinterface, presensi, qos, performance*