ABSTRACT

The rapid development of android phone in mobile phone market is caused by its functionality and more advanced feature. Android programmer utilizes it into android application which more practical and multifunction. One of the application which can be developed is biometric application. One of that is human face recognition in android platform for attendance system. This application identifies a human from its feature of face. So that, it will be more *distinctive*, effective, fast and secure. Other than that, since the used method is using android mobile platform so the system will be more *flexible*.

In this final project report, the implemented prototype will have some main process like, face detection using LBP Classifier, preprocessing, fisherface method, and Euclidean Distance.

After this implemented prototype run into some test, it has true accuracy at 91.02 %, with estimate EER at 11.85 %. Minimum accuracy of 70.5 % was acquired from image having motion blur with 30 len and 45^0 theta. The continuity of this application development is expected so it will be used in vocational as good attendance system.

Keywords : android, face recognition, attendance, biometric, fisherface