**1.Sign Language Learning Based On Android For Deaf  
And Speech Impaired People**

Impaired Speech Defect Is One Disease That Is Widely Available In Indonesia, Either Innate Or Acquired Due To Disease Or Accident. Children With Hearing And Speech Impaired Have Limitations On The Sense Of Hearing, Among Others, To Talk And Communicate. Until Now There Are Many Who Feel Reluctant To Communicate With Normal People Because Of Their Inability To Deliver Something That They Mean Well. A Sign Language Translator Technology Is One Of Several Attempts To Resolve The Issue That Gap. Learn American Sign Language Is A Simple And Fun Way To Learn Signing, Covering Such Useful Topics As Greetings, Emergency Situations And More.

Android Is A Linux-Based Operating System For Mobile Phones Such As Smart Phones And Tablet Computers. Opencv Is A Computer Vision Library That Can Be Used For The Development Of Sign Language Translation Studied In This Research. The System Will Perform Object Detection Feature To Get A Hand On The Images Obtained, Then Build A Region Of Interest (ROI) / Area Desired. This Process Can Be Recognized In One Frame Process On One Captured. The Time Needed By The System To Recognize Single Sign Is Between 6 (Frame Per Second Or FPS) Until 20 FPS. Results Of This Phase Is The Hand Shape Image As Input Data And Training Data.