

ABSTRACT

Nowdays technology plays a big role in education world, one example is attendance activities. Radio Frequency Identification (RFID) has been known as a solution to take attendance. However, RFID can't be a solution when number of participant are too much as in public lectures, oftentimes cause a long queue which absolutely takes a lot of time to be done. Therefore, required a system which is able to take attendance data easily and quickly called as smart presence.

Some researches about smart presence using Bluetooth dan Wi-Fi has been done. Current research using Bluetooth has a lack that system cannot receive bluetooth signal from certain brand. While research using Wi-Fi cannot identify whether student taking attendance inside the classroom yet, since the signal is able to reach outside the classroom. In this thesis is made a smart presence using Wi-Fi and smartphone. This system apply concurrently dan able to classify student's presence's location based on signal and mac address used by student.

Keywords: *Attendance, Smart Presence, Wi-Fi, Smartphone*