ABSTRACT

Nowadays, technology network are rise up not only from equipment side, but also from applications side and transmission system that's used. IT Telkom is one of telecommunication technology basic university that uses many variant of equipment and technology network in order to get more efficient, and faster campus activity using provided technology. Student Presence system at IT Telkom is still using manual method that sign present sheet. Because of that, this final project explains about design and implementation of student presence system using RFID (*Radio Frequency Identification*) *tag* that is in the Student ID. That purposes are to concise presence process, presence data update process, and optimalized IT Telkom Student ID.

In this final project, the system include tag write application, tag read application, and student presence data update. Using PC (*Peronal Computer*) dan RFID ACR 120 U hardware. Software that is used are Visual Basic 6.0, PHP, dan MySQL *browser* as database server. System testing use 3 computer units ; one computer as a server and the other as clients. The server is put in rooster and clients in B 101 and B 102 classroom. According to testing result above, student ID maximum detection range to RFID reader is 5 cm. Reading process success rate is 94%. By using RFID presence system, the easier student presence insert process is expected.

Keyword : RFID, Visual Basic 6.0, PHP, MySQL Browser