RANCANG BANGUN SISTEM KEANGGOTAAN CLUB OTOMOTIF MENGGUNAKAN RFID

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ABSTRACT

Technology is currently experiencing rapid development. Many new technologies can help complete human work, Radio Frequency Identification (RFID). RFID can be used to help manage data in an automotive club. Not yet optimal work system in automotive clubs, especially Club Moonraker Korwil Yogyakarta, which still uses written notes in books for members who want to attend, the authors use RFID technology to help manage attendance data when participating in routine gatherings and attending events. RFID can help process data input and output into the club database. The manufacture of this tool starts with the tool's design and continues with the assembly of the components. The main component in this system is the RFID reader used to read data from the RFID tag, which contains the primary key of the member data, the RFID tag model card used as a club member card. RFID reader connected to NodeMCU as an RFID tag reading terminal. Delphi as the media interface and XAMPP as the localhost server, and MySQL as data storage or database. Buzzer as a marker media ready by RFID and the QR code as an identification tool other than RFID, which third parties will use. Namely, the workshop will identify members when they are about to service or buy an accessory in a certain workshop and get a discount. Later, the repair shop will scan QRcode using a QRcode scan to determine whether the member is a member of the club.

Keywords: Club, RFID, Application, QRcode