DESIGNING PARKING LOT SECURITY SYSTEM USING SMART GATE

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ABSTRACT

Nowadays, a lot of crimes happen in the parking area. Therefore we need to improve our secure system especially for parking area. So we can prevent bad guy who wants to steal our car by easily faking our car identity to make the guards deceived and they can’t check true owner of the vehicle.

Due to that background, writer design a desktop based application system named “Smart Gate” to ease parking service provider to improve their security in parking area. This final project will design and build application that utilize 2 tools: RFID (Radio Frequency Identification) with Fingerprint Reader and NFC (Near Field Communication) as backup if there is any broken or error in RFID. This application needs input of information about identity of driver and the vehicle in parking area. By using RFID, Fingerprint Reader, and NFC that will be adapted with available database, this application will display matching process which will compare data input and data in database.

This final project will create application that can reduce crime level in stealing vehicle especially in parking area.

Keyword: Smart Gate, Parking system, RFID, Fingerprint Reader, NFC
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