ABSTRACT

Parking is common in Indonesia means that is used as the vehicle stops temporarily or long enough that very parking arrangements which affect the performance of a public transportation network especially on the highways. However, in Indonesia's own parking facilities are lacking qualified, which was about to do a parking lot, the rider had to take the tickets, parking and Queuing will usually cause a queue at the parking entrance portal, then the capacity of the parking lot still enough to fill vehicles for parking does not exist. Now with the technology of automatic parking systems-based near field comunication (NFC) parking be facilitated, then the user no longer has to take the parking ticket queue simply by doing a tag card near field comunication (NFC) on the reader near field comunication (NFC) which is located at the entrance to the parking lot or parking exit. NFC here used as identification vehicles entering and exiting the parking, the distance reading of tags this NFC card can reach a distance of 7cm and users of parking is also facilitated in doing the NFC card tag, because the NFC can read tags in angle of 0^0, 30^0, 60^0, 90^0. Automatic parking systems-based near field comunication (NFC) also features an infrared sensor to detect the incoming vehicles or objects out of the parking lot. Then the parking capacity is still available will be displayed on the LCD screen and if the parking is full or full will also be on display on the LCD screen.

Keywords: NFC, LCD, Infrared