ABSTRACT

TRAC Astra Rent a Car is a leading transportation solution provider in Indonesia. Branch office that has the largest pool located on Jl. 5 General Sudirman Jakarta. has approximately 400 vehicles with a range of variants and has a land size 173 x 124 m. TRAC Astra has the problem of parking management, including the difficulty in searching the vehicle parking location and the uneven use frequency of vehicle that would be rented.

Parking management information system design based on RFID technology with waterfall method consists of several stages feasibility study, requirement analysis, design, coding, testing and Maintenace. In designing the proposed parking layout the writer used technical guidelines for the implementation of parking facilities from Directorate General of Land Transportation that regulate the size of the unit parking space, vehicle parking patterns and sizes of vehicles circulation paths.

Parking management information system has some features such as vehicle rental management, vehicle management, location management, employee management and vehicle location search feature. the proposed parking layout can be used to manage the parking location to be more regular. RFID technology can be used to simplify the identification of vehicle parking location.

Keywords: Information systems, RFID, parking management