# DESIGNING A REAL-TIME PARKING SYSTEM FOR MALLS IN MALANG

FINAL REPORT

BY ARIEF AGUS AINUR MAULIDZ NIM 14631020



UNIVERSITY OF MERDEKA MALANG D3 ENGLISH PROGRAM AUGUST 2017

# DESIGNING A REAL-TIME PARKING SYSTEM FOR MALLS IN MALANG

FINAL REPORT

Presented to University of Merdeka Malang in partial fulfillment of the requirements for the degree of *Ahli Madya* in Diploma Three of English

> By Arief Agus Ainur Maulidz NIM 14631020

UNIVERSITY OF MERDEKA MALANG D3 ENGLISH PROGRAM AUGUST 2017 This is to testify that the Final Report of ARIEF AGUS AINUR MAULIDZ has been approved by the advisor for further approval by the Examining Comittee.

Malang, August 15th, 2017

Advisor,

Prilla L. Wediyantoro, S.Pd., M.Pd.

This is to testify that the Final Report presented by ARIEF AGUS AINUR MAULIDZ on August  $22^{nd}$ , 2017 has been examined.

Malang, August 28<sup>th</sup>, 2017 Examiner 1,

toris

Cattleya W. Pravitha, S.S., M.Hum.

Examiner 2,

Widyarini S. Putri, S.S., M.A.

Acknowledged by Head of the Program,

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Drs. Suatmo Panca Putra, M.Pd.

#### ABSTRACT

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Key Words: Parking System, Real-time, Parking Space

Real-time parking system is a computer-based system that organizes a parking area and able to provide information about the availability of parking space. This final report is intended to explain about real-time parking system designed by the writer. Real-time parking system designed by the writer has additional useful feature compared to other computer-based parking systems. Basically, its mechanism is the same with other computer-based parking systems; the parking man types the parking data into a computer and the data will be automatically reported to the manager through a Local Area Network (LAN). Some malls in Malang already use computer-based parking system, such as MX Mall, Cyber Mall, and Malang City Point. The writer conducted self-observation in MX mall to understand the mechanism of this parking system. When the writer was there, he found a problem. If the parking lot was almost full, visitors were difficult to find a vacant parking space. Therefore, real-time feature of the writer's program can overcome that problem. In fact, there is another real-time parking system, Bosch's program, that has similar ability with the writer's real-time parking system. However, in terms of cost management, the writer's real-time parking system is better since it does not involve additional devices. So, in the writer's opinion, the writer's real-time parking system can be a better means to overcome that problem.

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