CHAPTER I

INTRODUCTION

1.1 Background of Final Report

Nowadays, companies however big or the small ones demand the aid of technology to support the operational processes of the company. The existence of computer in supporting the operational activities of a company is important because it can help them increase effectiveness (Goel, 2008:1) and productivity (Beckman, 1995:3). Computer is used for a variety of tasks in a modern and industrialized society (Ram, 2009:1). One of implementation examples is as an information system program to organize parking in malls. Some malls in Malang already use computer program as an additional medium to increase the data mobility from a parking man to a manager of mall. Nevertheless, some other malls still use conventional system.

In the conventional parking system, the parking man has to record manually, writing in a piece of paper, all vehicles that enter and exit a parking lot. The record is not directly reported to the manager; the parking man has to report the record in person since it is paper-based system. It will take longer time and less efficient. The implementation of information system program in some malls in Malang, such as MX Mall, Cyber Mall, and Malang City Point, works well. Based on the writer's self-observation in MX Mall, writer gets information that its parking lot uses a program in a computer to organize parking. The parking man on duty records every

car that enters the mall by inputting the information to the computer. Unlike the conventional system, the parking man inputs the data by typing on a keyboard of a computer, and then the information will be printted out as a ticket. Besides, the parking man does not need to report the record manually to the manager since the inputted data are directly connected to the manager's database. It is very beneficial for management of the mall especially in time efficiency in a parking system.

Although malls in Malang already use information system program, there is another problem sometimes; when the parking lot is almost full, visitors are having trouble to find a vacant parking space to park their car. It takes their time because they have to drive around first to find one. One of the causes is the neatness of the parking vehicles is less organized. Therefore, a program that can provide real-time information is badly needed. It means that the program can show vacant parking space available for visitors which is most likely similar with cinema ticket reserving.

Because of the problems mentioned above, the writer is interested to design an information system program that can prevent the problems of malls and enrich an innovation by adding another useful feature to the information system program of parking in malls. Therefore, writer entitles his final report **"Designing a Real-time Parking System for Malls in Malang"**.

1.2 Objectives of Final Report

Based on the explanation above, this final report is intended to design a real-time parking system to ease visitors in finding vacant parking space and ease managers of malls especially in organizing their parking lot.

1.3 Significances of Final Report

By designing this program, writer hopes that the result will be beneficial especially for visitors of a mall. They will be aided by this program so that easing them in finding vacant parking space. Besides, it is expected that managers of malls in Malang can consider it as supplementary source to implement this program in their mall so that the parking lot would be more organized. Lastly, for the most common readers and university students, it is expected that this result of final report will give them the valuable insights in line with their needs.