CHAPTER 1

INTRODUCTION

1.1 Background

In an age of modernization, the world is no longer a safer place for people to live freely without cautions and safety measures being implemented as a routine. Property and life have been valued as something that can be easily lost and replace. There are too many kinds of crime happened involving property and life such as robbery, scamming, privacy intrusion and homicide. One of the most common crimes nowadays is car theft or sometimes referred to as grand theft auto.

According to Charles (2013), the statistics of car theft in Malaysia showed about 24,299 cases in 2012 and declined to 16,258 cases until September 2013. Although there is a visible decline on the number of cases, the statistics still on an alarming number. The high level of car theft cases in Malaysia might be caused by several factors such as lack of security implementation on the vehicle, strategic location for car theft, and the increasing number of criminal syndicate for stealing car. Apart from the various factors for car theft cases, preventive measures must be implemented and action must be taken before the crime happen. Safety measures can be implemented on residential area such as building guard post or forming a voluntary security team.
1.2 Problem Statement

In University Malaysia Pahang, security issues have been a prolonged problem since a few years earlier especially at the student’s residential colleges. It is because there is no restriction towards people or visitors that enter and exit UMP area. There is no proper system to monitor vehicles movements as it is done manually for certain period of time. The security officer at residential colleges guard post only record vehicle entry and exit on night duty manually into a record book. At the main gate, vehicle entering UMP only being check for identification but not being record into the record book. This manual system does not provide continuous vehicle monitoring and ignore the safety measure to identify the identity of every vehicle’s owner.

Currently, UMP Security Department is still using manual procedure to control traffic by monitoring every single vehicle that enter and exit the UMP area. Authorized and unauthorized vehicle are monitored manually by checking every vehicle entering UMP whether they are UMP community or not. However, during monitoring process there might exist a few vehicles that are being overlooked by the security officer. Unauthorized vehicle may have entered UMP without alerting security officer and can exit the area undetected.

Another problem posed by the manual monitoring is no fix history log on vehicle entry and exit of UMP. The data is only recorded on an indefinite time and does not cover 24 hours a week. Therefore, the currently use manual monitoring system can be improve by developing an electronic monitoring system. With this new system, a more accurate and secure monitoring of vehicle entry and exit of UMP can be implemented. Less workforce of security guard will be used and UMP will be more secure from unauthorized vehicle. These new system is called UMP Vehicle Entry and Exit Monitoring System (UMP VEEMS).
1.3 **Objective**

The goal of this project is to develop UMP Vehicle Entry and Exit Monitoring System (UMP VEEMS). The following objectives are set:

i. To replace the existing manual system into an electronic monitoring system.

ii. To keep track and alert security department on unauthorized vehicle entering or exiting UMP.

iii. To generate report on vehicle entry and exit into UMP via the monitoring system.

1.4 **Scope**

i. **Target Organization**

UMP Security Department is the target organization for developing the system. The system is developed to create an electronic vehicle monitoring system to be used by security officer to enforce traffic law and control people who enter and exit from UMP.

ii. **System User**

The target user of the system will be the UMP Security Department staffs which are the system administrator and security officer. System administrator will register security officer to use the system, while security officer will use the monitoring system for 24 hours a week and check for unauthorized vehicle.