CHAPTER III

METHODOLOGY

This chapter describes the method that will be used in development of prototype of EMS.

3.1 Introduction

This chapter will discuss about the methodology and techniques which uses to develop the system for the project EMS. Besides that, this chapter will briefly discuss on the method and procedures that would be carried out to develop the system. The methodology that used to describe the flow of this whole project is the System Development Life Cycle (SDLC). The System Development Life Cycle (SDLC) model is chosen to be the guideline in implementation of EMS. Each stage will be explained in detail in next section. Furthermore, this chapter also will explain on the hardware and software requirements in order to accomplish the project.

3.2 Implementation of System Development Life Cycle in EMS

The system development life cycles (SDLC) are the method used to show the overall flow of this information system. It is the whole process of developing, implementing and retiring information systems through multiple processes starting from the initial steps, analysis, design, implementation and maintenance. There are several advantages of using this SDLC such as it provide strong management controls, maximize productivity and delivery high quality system. In other words, the SDLC should ensure that we can produce more function, with higher quality, in less time, with less resource and in a predictable manner.

The SDLC is a common methodology for system development in many organizations, featuring several phases that mark the progress of the system analysis and design effort. SDLC is also known as information system developments or application developments.
3.3.1 Planning Phase

To develop this system, first phase of the SDLC is the planning phase. The primary objectives of the planning phase are to identify the scope of the system, to ensure that the project is feasible and to develop a schedule to allocate resources. At this stage, a new System Development Plan will be suggested to ensure that the development of the system would be more easily and according to the steps. This phase consists of activities that are required to get the project organized and started. These activities include define the problem, confirm project feasibility, and produce the project schedule.

Furthermore, during this stage, the user requirement study will takes place whereby the developer of this system will determine the requirements. The user requirement is important to identify the problem of the current system (if got) and identify the ways that can be taken to overcome it. In order to get the system requirements, a few steps have been made.

Below are the steps that have been taken in order to carry out this system:

1. Define the project scope and constraints

After gets all the information required in the project, the scope and constraints are identified.
2. Refer to Arul Supply Trading.

The best way to get information are from the company itself.

### 3.3.2 Analysis Phase

The second phases of this SDLC are the analysis phases. In this phase, it requires users to go through all the user requirements and the problem faced to develop the computer-based system. There are three parts to analysis which is determining requirement, structuring requirement and designing requirement. Besides that, in order to develop this system the developer needs to identify the techniques and method that should be used.

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Table 3.1: Existing EMS Application