CHAPTER 1

PROJECT SPECIFICATIONS

1.1 Objective

The objective of this project is to provide a general understanding on how the Remote Monitoring CCTV process works, the equipment required to establish the Remote Monitoring CCTV system, the application area used in the Remote Monitoring CCTV system, the advantages and disadvantages of using Remote Monitoring CCTV system as well as developing a prototype of the Remote Monitoring system that have the following features:

- ▫ Remote Monitoring via computer network
- ▫ Remote Monitoring via telephone dial up modem
- ▫ Remote Monitoring via Internet

1.2 Source of Data

The data sources are from the primary and secondary data. Primary data collection was mainly from an interview with Mr. Soo (*Senior CCTV Engineer. Cipher Tech (M) Sdn Bhd*), which lasted for one day and the developers own

research. Secondary data was gathered through research of journal, periodicals, books, and on the Internet as well as the testing of existing software,.

1.3 Project Scope

This project covers two parts; part one mainly on the research of the application of the remote monitoring system, while part two focuses on the designing and developing of a working model of a remote monitoring systems that have three major functions:

- Using computer network (LAN/WAN) for remote monitoring.
- Using dial up modem for remote monitoring.
- Using Internet for remote monitoring.

1.4 Project Schedule

The Gantt chart is a compact way of presenting the proposed schedule for the development of the project. Gantt chart, which is also known as the bar chart, is the simplest planning schedule that shows each activity in a system development and the amount of time each activity will take. The horizontal axis represents units of time and the vertical axis represents different components of the project. A horizontal bar is added to show the starting time and duration of each component of the project. The project schedule is shown on the next page:

ID	Task Name	Duration	Start	Finish
1	Literature Review	61 days	Mon 3/0/01	Mon 11/26/01
2	Introduction to Remote Monitoring System (R	26 days	Mon 3/0/01	Mon 1/08/01
3	CCTV	5 days	Mon 9/30/01	Fri 9/7/01
4	Digital CCTV	5 days	Mon 9/10/01	Fri 9/14/01
5	Application area	5 days	Mon 9/17/01	Fri 9/21/01
6	Advantage and disadvantage	5 days	Mon 9/24/01	Fri 9/28/01
7	Comparison of CCTV over RMS	6 days	Mon 10/1/01	Mon 9/8/01
8	Component of CCTV	20 days	Tue 10/9/01	Mon 11/5/01
9	Types of RMS	15 days	Tue 11/6/01	Mon 11/26/01
10	Via computer network	5 days	Tue 11/6/01	Mon 11/12/01
11	Via dial up telephone modem	5 days	Tue 11/13/01	Mon 11/19/01
12	Via Internet browser	5 days	Tue 11/20/01	Mon 11/26/01
13	Preliminary Investigation	29 days	Tue 11/27/01	Fri 1/4/02
14	Clarify and understand the system request	5 days	Tue 11/27/01	Mon 12/3/01
15	Define the scope and constraint	5 days	Tue 12/4/01	Mon 12/10/01
16	Access the cost and benefit	5 days	Mon 12/10/01	Fri 12/14/01
17	Examine the technical and operational feasibi	5 days	Mon 12/17/01	Fri 12/21/01
18	Required tools and technique	5 days	Mon 12/24/01	Fri 12/28/01
19	The chosen methodology	5 days	Mon 12/31/01	Fri 1/4/02
20	Requirement Analysis	25 days	Mon 1/7/02	Fri 2/8/02
21	Testing Out Existing Software	7 days	Mon 1/7/02	Tue 1/15/02

ID	Task Name	Duration	Start	Finish
22	Interview	1 day	Wed 1/16/02	Wed 1/16/02
23	Internet Research	14 days	Thu 1/17/02	Tue 2/5/02
24	Data Flow Diagram	3 days	Wed 2/6/02	Fri 2/8/02
25	Application development	45 days	Mon 2/11/02	Fri 4/12/02
26	Structure design	2 days	Mon 2/11/02	Tue 2/12/02
27	Screen design	3 days	Wed 2/13/02	Fri 2/15/02
28	Program coding	40 days	Mon 2/18/02	Fri 4/12/02
29	Testing	9 days	Mon 4/15/02	Thu 4/25/02
30	Unit testing	3 days	Mon 4/15/02	Wed 4/17/02
31	Integration testing	3 days	Thu 4/18/02	Mon 4/22/02
32	System testing	3 days	Tue 4/23/02	Thu 4/25/02

Project: Remote Monitoring System
Date: Thu 04/0?

Task		Summary	Rolled Up Progress
Split		Rolled Up Task	External Tasks
Progress		Rolled Up Split	Project Summary
Milestone	◆	Rolled Up Milestone ◇	

Table 1.1 Project schedule