

CHAPTER ONE

INTRODUCTION:

This chapter gives an overview about the aim, objectives, background and operation environment of the system.

1.1 BACKGROUND OF THE STUDY

The operation of any company is based on the contribution of staff either from executive level or operational level. For example, in a factory, the shop floor operation required full attendance of engineer, technical staff, and operation level staff before they start the operation. Therefore, the attendance system provides the information of the staff's existing to the shop floor. Their information will help them to plan the operation and do any changes for any absent.

Attendance can be defined as the action of being present at one place or event

[1] For example present to somebody party or present to work in office. Attendance is one of the important factors in many institutions and organization that need to be followed by people

[2]. Staff attendance tracking is a common practice in almost all organizations. It is highly important for one organization in order to maintain their performance standards

[3]. In the previous implementation, there are various types of attendance systems that have been developed. For example: attendance systems by using pen and paper, using database, and also biometrics. These implementations still can cause lots of problems such as providing incorrect information to the users.

The purpose of this integrated attendance system is to computerized the traditional way of record attendance. Besides that it is used to create a combination of various types of attendance where users can either choose to use smart card or fingerprint technologies. For example, by using combination of both smart card and fingerprint technologies to record workers attendance, the attendance system can be strongly protected and the inappropriate manner of behaviors can be eliminated. If one of the devices is malfunction, the others can act as backup.

1.2 STATEMENT OF THE PROBLEMS

For companies that use pen and paper to record their attendance, with the large amount of staff in the company, this will be a problem to the manager to keep track on staffs' attendance because by using pen and paper, one worker can help other workers to sign his/her attendance even though they do not go to work or either the workers are late to work.

For small companies which have only 10 staffs, it is not worth for them to purchase a fingerprint attendance system. This is because the cost of one fingerprint device is quite expensive and they need an expert which has knowledge to help configure and maintain the system.

With the existing approach, there is only a single input device use to record the staff attendance either using smart card or fingerprint. If one company would like to have 2 different input of attendance system to provide interchangeable function, they will need to

purchase both systems which will be costly. In addition, if one day the single input device suddenly breakdown, the attendance cannot be recorded.

Therefore, there is a need to develop an integrated attendance system with various type of input to fulfill customer needs and requirements because it is flexible and it can bring convenient to the manager to summarize and manipulate staff information. Lack of effectiveness in their methods of record keeping, further compounds the problem.

1.3 OBJECTIVE OF THE STUDY

The objectives of this project are:

- i. To develop an Integrated Staff Attendance System (ISAS) by using fingerprint technologies.
- ii. To provide the potential users with the customize option of using both input device.
- iii. To develop an algorithm for the staff working hours processing towards attendance system

1.6 SIGNIFICANCE OF THE STUDY

The use of staff attendance system is very important because of human being proneness to error, leaving the staff to write down their names might not be accurate as staff can even write attendance for their fellow staff and their handwriting legibility can be a case when compiling the attendance record at the end of the month.

The official in charge of attendance collation is highly favored by this system because use of pen and paper as a means of collating staff attendance will leave the official in charge with numerous sheet of paper, which will be hectic as he/she has to start comparing several sheets to record the average attendance for just a staff. The official is going to waste a lot of time compiling the attendance percentage at the end of the month, mistake can creep in due to the large volumes of papers.

Successful implementation of this project mean the staff attendance credibility can be queried or put to test anytime, and result are produce fast and accuracy, without stress.

1.7 LIMITATION OF THE STUDY

1. Unavailability of academic materials.
2. Transport problem
3. Lack of financial support
4. Lack of Time
5. Unavailability of programming software such as vb.Net, and Crystal report.

1.9 SCOPE OF THE STUDY

- i. This system is used to records staffs' attendance.
- ii. The implementation is implementing in the Company of SPRINGLIGHT TECHNOLOGY.
- iii. The users of this system are the manager and workers of *SPLIGHT*.
- iv. The technology that will be used to conduct this project is the fingerprint device.
- v. The input device will be installed at various locations in the organization.

1.8 ASSUMPTION OF THE STUDY

It is assumed that all the data collected are correct and contains no false information.

1.8 DEFINITION OF TERMS

Seaport: A large town on or near a coast with a harbor that big ships can be used.

Management: It is the co-ordination of all the resources of an Organization through the process of planning, Organization, directing and controlling

System: Physical component of a computer that is used to perform certain task.

Data: Numbers, Text or image which is in the form suitable for Storage in or processing by a computer, or incomplete Information.

Information: A meaning full material derived from computer data by organizing it and interpreting it in a specified way.

Input: Data entered into a computer for storage or processing.

Output: Information produced from a computer after processing.

Information System: A set of interrelated components that collect (or retrieve), process, store and distribute information to support decision making and control in an organization.

Seaport Management System: A seaport management system, also known as an automated seaport system is software that has been developed to handle functions of a seaport.

1. **COMPUTER:** - Computer is an electronic device that accepts data as Input, processes data and gives out information as output to the user.

2. **SOFTWARE:** - Software is set of related programs that are designed by the manufacturer to control the hardware and to enable the computer perform a given task.

3. **HARDWARE:** - Hardware is a physical part of a computer that can be touched, seen, feel which are been control by the software to perform a given task.

4. **DATABASE:** - Database is the collection of related data in an organized form.

5. **PROGRAMMING:** - programming is a set of coded instruction which the computers understands and obey.

6. **TECHNOLOGY:** - Technology is the branch of knowledge that deals with the creation and use technical and their interrelation with life, society and the environment, drawing upon such as industrial art, engineering, applied science and pure science.

7. **Algorithm :** A set of logic rules determined during the design phase of a data matching application. The 'blueprint' used to turn logic rules into computer instructions that detail what step to perform in what order.

8. **Application:** The final combination of software and hardware which performs the data matching.

9. **Data matching database:** A structured collection of records or data that is stored in a computer system.

10. **Data cleansing:** The proactive identification and correction of data quality issues which affect an agency's ability to effectively use its data.

11. **Data integrity :** The quality of correctness, completeness and complain with the

intention of the creators of the data i.e 'fit for purpose'

12. Enrollment : The process of an individual to enroll with an agency. Involves the initial collection of identifying details.

1.5 Thesis Organization

This thesis consists of four(4) chapters. Chapter 1 discusses on the introduction of the system. The purpose of this chapter is to briefly explain about the overview system that is developed. This chapter also supply with the problem statements, objectives and the scope of the study.

Chapter 2 is literature review. As the name given the purpose of this chapter is to review the previous research works which was conducted by other researchers. All the relevant journal, thesis and books taken from those researches will be discussed in detail.

Chapter 3 is research methodology. This chapter reveals the techniques, algorithms and related software that will be used for the project development. Besides that, it will also discuss about the process flow in detail of this research.

Chapter 4 is implementation and testing. This chapter documenting all the process that involved in developing this system and the testing made to the system.

Lastly, chapter 5, the conclusion concludes and come out with a summary about the developed project.

DESIGN AND IMPLEMENTATION OF COMPUTERISED STAFF ATTENDANCE SYSTEM WITH FINGER PRINTING TECHNOLOGY

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