PDF - DESIGN AND IMPLEMENTATION OF COMPUTERIZED STAFF ATTENDANCE SYSTEM WITH FINGER PRINT TECHNOLOGY - researchcub.info ABSTRACT

The Design and Implementation of StaffAttendancesystem is an academic work which aims in developing a computerized system or maintain the attendance of Staff in a company.

Attendancein an organization is important to ensure the continuous operation. Aiming atthe disadvantages of traditional pen and paper attendance system, an IntegratedStaff Attendance System (ISAS) is proposed. ISAS is a system used to record thepresent of staffs to work. It provides a customization option of using an inputdevice: fingerprint technology. Rapid Application Development (RAD) is used asit gives much faster development process which will guarantee the punctuality of the system delivery. This system allows the workers to take attendance, viewtheir user profile and also attendance, while the manager can view workers'attendance, managing workers' information and generating attendance report.

It is a computerized robust paymentsystem. It also has the facility of showing all reports of Staff attendance.Overall this project of ours is being developed to help the company, schools, hospitals, secretariat to maintain the attendance in the best way possible and also reduce the human efforts. The Programming language used in developing thisapplication software is Visual Basic.net 2012. It runs in Windows 98 to Latestwindows 10. It also requires Microsoft access 2010 re-distribution to avoiderrors. It also needs Crystal report to be installed to view the report in thedatabase.

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

1.1 BACKGROUNDOF THE STUDY

The operation of any company isbased on the contribution of staff either from executive level or operationallevel. For example, in a factory, the shop floor operation required fullattendance of engineer, technical staff, and operation level staff before theystart the operation. Therefore, the attendance system provides the information of the staff's existing to the shop floor. Their information will help them toplan the operation and do any changes for any absent.

Attendance can be defined as he 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 importantfactors in many institutions and organization that need to be followed bypeople[2]. Staff attendance tracking a common practice in almost all organizations. It is highly important forone organization in order to maintain their performance standards

[3]. in the previousimplementation, there are various types of attendance systems that have beendeveloped. For example: attendance systems by using pen and paper, usingdatabase, and also biometrics. These implementations still can cause lots ofproblems 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 cardand fingerprint technologies to record workers attendance, the attendancesystem can be strongly protected and the inappropriate manner of behaviors can be eliminated. If one of the devices is malfunction, the others can acts as backup.

1.2 STATEMENT OFTHE PROBLEMS

For companies that use pen andpaper to record their attendance, with the large amount of staff in thecompany, 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 tosign his/her attendance even though they do not go to work or either theworkers are late to work. For small companies which haveonly 10 staffs, it is not worth for them to purchase a fingerprint attendancesystem. This is because the cost of one fingerprint device is quite expensiveand they need an expert which has knowledge to help configure and maintain thesystem.

With the existing approach, there is only a single input device use to record the staff attendance eitherusing smart card or fingerprint. If one company would like to have 2 differentinput of attendance system to provide interchangeable function, they will needto 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 anintegrated attendance system with various type of input to fulfill customerneeds 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 recordkeeping, further compounds the problem.

1.3 OBJECTIVE OFTHE STUDY

The objectives of this projectare:

i. To develop an IntegratedStaff Attendance System (ISAS) by using fingerprint technologies. ii. To provide the potentialusers with the customize option of using both input device.

iii. To develop an algorithmfor the staff working hours processing towards attendance system

1.6 SIGNIFICANCEOF THE STUDY

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

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

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

- 1.7 LIMITATIONOF THE STUDY
- 1. Unavailability of academic materials.
- 2.Transportproblem
- 3.Lackof financial support
- 4.Lackof Time

5. Unavailability of programming software such as vb.Net, and Crystal report.

1.9 SCOPE OF THE STUDY

i. This system is used torecords staffs' attendance.

ii. The implementation isimplementing in the Company of SPRINGLIGHT TECHNOLOGY.

iii. The users of this systemare the manager and workers of SPLIGHT.

iv. The technology that will beused to conduct this project is the fingerprint device.

v. The input device will beinstalled at various locations in the organization.

1.8 ASSUMPTION OF THE STUDY

It is assumed that all the data collected are correct and contains nofalse information.

1.8 DEFINITIONOF 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 interpretingit in a specified way.

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

Output: Information produced from a computer after processing.

InformationSystem: 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 seaportmanagement system, also known as an automated seaport system is software thathas been developed to handle functions of a seaport.

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

2.**SOFWARE:-**Software is set of related programs thatare designed by the manufacturer to control the hardware and to enable thecomputer perform a given task.

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

4.DATABASE: - Database is the collection of relateddata in an organized form.

5.**PROGRAMMING: -** programmingisa set of codedinstruction which the computers understands and obey.

6.**TECHNOLOGY: -**Technology is the branch of knowledgethat deals with the creation and use technical and their interrelation withlife, 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 phaseof a data matching application. The 'blueprint' used to turn logic rules intocomputer instructions that detail what step to perform in what order.

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

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

10. **Data cleansing:** Theproactive identification and correction of data quality issues which affect anagency'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 aithan 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. Thepurpose of this chapter is to briefly explain about the overview system that isdeveloped. 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 reviews the previous research works which was conducted by other researches. All the relevant journal, thesis and books taken from those researches will be discussed indetail.

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

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

Lastly, chapter5, the conclusion concludes and come out with a summary about the developed project.

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