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JUDUL: MATERIAL ON SITE ORDER MANAGEMENT SYSTEM

SESI PENGAJIAN: 2005/2006

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(HURUF BESAR)

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MATERIAL ON SITE ORDER MANAGEMENT SYSTEM (MOSOMS)

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This report is submitted in partial fulfillment of the requirements for the Bachelor of Computer Science (Software Development)

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2006

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DECLARATION

I hereby declare that this project report entitled

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is written by me and is my own effort and that no part has been plagiarized without citations.

STUDENT: _____ Date: 28/4/06

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SUPERVISOR: _____ Date: 28/4/06

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DEDICATION

To my beloved parents,

I sincerely value the importance of your presence, in guiding me along the way to grow mentally and spiritually apart from intellectual provisions. I can finally see your points from the facet of your eyes....Thank you.

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ABSTRACT

The idea for the MOSOMS project has been conceptualized following the continuous observation and research on the art of material on site order management as the immense interest drives the concerted effort to study the operations as whole from the back-end right to the front-end. Some of the objectives in developing the computerized management system include finding the net profit of the company, calculating employee wages, generating employee income statement and scheduling job. The system is also designed to be user-friendly and interesting. The scope for this project is to manage the information the material on site order. MOSOMS will be built to replace the manual system in order to achieve an efficient and effective management system. Through MOSOMS, data can be stored securely in the Microsoft Access 2000 database. The Object-Oriented Analysis Design approach is used as the implementation method in this project. Problems with the current manual system will be identified and analyzed in order to provide the suitable solutions. The system is designed according to the user requirements and information gathered during the analysis. Based on these, the system will be developed using the best suitable application. The user feedbacks will be required during the testing phase to ensure that the system meets their requirements. During the implementation phase, system configuration, planning and user training activities will take place. If the system is successful and accepted by users, the system will be used by Daya Serasi Enterprise. However, to ensure its success, continuous system maintenance and corrective actions is important. The strength of this system is it is secure, effective, reduce errors, better data storage as well as user-friendly.

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ABSTRAK

Idea untuk membangunkan projek MOSOMS ini telah diperolehi berikutan pemantauan dan kajian yang dilakukan untuk melengkapkan ilmu mengenai teknik pengurusan pesanan bahan mentah untuk tapak serta minat yang berterusan telah memandu ke arah penyelidikan secara keseluruhan biarpun dari aspek dalaman mahupun luaran. Terdapat beberapa objektif utama dalam membangunkan system ini. Diantaranya pengurusan berasaskan komputer, mencari keuntungan bersih untuk kompeni, pengiraan gaji untuk pekerja, penyata gaji dan jadual kerja. Manakala skop bagi sistem yang dibangunkan ini adalah pengurusan, iaitu sistem ini akan menguruskan dan memaparkan maklumat tentang bahan mentah untuk tapak. MOSOMS dibina untuk mengantikan kaedah manual sebelum ini untuk pengurusan yang cekap dan berkesan. Melalui MOSOMS ini data dapat disimpan dengan selamat kerana ditempatkan didalam satu pangkalan data iaitu Microsoft Access 2000. Kaedah perlaksanaan dan penyelesaian yang digunakan didalam membangunkan MOSOMS adalah Object-Oriented Analysis Design. Sinopsis akan dibuat keatas sistem yang akan dibina melalui penjanaan idea-idea baru. Sistem akan dibangunkan mengikut keperluan pengguna sistem melalui idea dan konsep, menganalisa rekabentuk sistem, lakaran, storyboard dan lakaran terakhir. Sistem yang dibangunkan mengikut maklumat yang dikumpul dan keperluan pengguna disamping menggunakan perisian yang sesuai. Pengujian dilakukan dengan mendapatkan maklum balas daripada penguji tentang sistem ini. Perlaksanaan merangkumi pemasangan sistem, perubahan rancangan dan latihan kepada pengguna. Sekiranya berjaya, sistem ini akan digunakan sepenuhnya. Kaedah yang terakhir adalah penjanaan atau pemantauan. Sistem ini hendaklah dibuat pemantauan dari masa ke semasa untuk mengenalpasti masalah. Kekuatan sistem ini ia dapat menigkatkan sistem keselamatan, mudah untuk membuat permohonan, proses yang dijalankan secara automatik, dapat mengurangkan kesilapan, penyimpanan data yang lebih baik dan mesra pengguna.

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LIST OF ACRONYMS

CPU	Central Processing Unit
MOSOMS	Material On Site Order Management System
TS	Transportation System
RUP	Rational Unified Process
UML	Unified Modeling Language
OOAD	Object Oriented Analysis Design
VB	Visual Basic
OOP	Object-Oriented Programming
ERD	Entity Relationship Diagram
DSE	Daya Serasi Enterprise
LAN	Local Area Network
SQA	Software Quality Assurance
RAM	Random Access Memory

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CHAPTER I

INTRODUCTION

1.1 Background

Business transaction in material on site order usually occurs in raw material production companies such as cement production and construction companies. Thus, it is highly recommended for such companies, to have an effective management system to manage material on site order. Currently, material on site order is done manually where each material production is recorded manually by using the appropriate form. The completed forms are then filed and kept in a physical filing cabinet. Sometimes, the form might be misplaced or lost due to human error or natural hazard.

Therefore, Material On Site Order Management System (MOSOMS) is the best solution to overcome the problems mentioned above. This system is designed with flexibility in responding to last minute changes, quick access to required information and the power to get the job done timely and accurately.

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1.2 Problem Statement

Following are the major problems that have been identified in the current system which had lead to the requirement of MOSOMS: -

1.2.1 Data Accuracy

With the current manual filing based system, data is not secured as anybody can gain access to the file and manipulate the data. Furthermore, the data written may not be 100% accurate as spelling errors and poor hand writing can cause misunderstanding of data which may lead to other serious problems. In the business environment, data accuracy is important in. Therefore, the material on site order management system can ensure that the data entry reliable and trustworthy.

1.2.2 Damages

A form made with paper can be easily damaged by water, fire or any other unpredictable circumstances. Using the computerized system, such damages can be tremendously reduced by storing the data in an electronic form.

1.2.3 Data Redundancy

By using paper forms, users need to fill in the same information or details each time they want to make an order. With the management system, the repeated information or details will only need to be keyed in once and will then be stored in the system's database for future reference.

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1.2.4 Time Consuming

Most of the time, one will find filling a form is time consuming and annoying especially when there may be a lot of orders to be made. Thus, by using this system, user may find it faster and more effective as data that is already in the system's database don't have to be keyed in and any erroneous or incomplete data detected by the system will be alerted to the user.

1.2.5 Storage Problem

Basically, forms are made of papers. Some come in good quality and some don't. As time goes by, these forms will start to accumulate and will require a large space to store all of them. These forms will also start to deteriorate where some of the hand writing cannot be read anymore as the ink has faded. These problems can be easily overcome using the computerized system comprising of PCs, software and other peripherals. All the information contained in the forms can be stored either on the hard disk, CDs or external hard disk which do not require lots of storage space.

1.2.6 Security

Using the paper-based forms, all the information including confidential information can be viewed by anybody who can access the file or the filing cabinets. The material site order management system provides data security where only authorized users can access the information or make any changes to it.

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1.3 Objectives

The project aims to achieve the following objectives: -

1.3.1 Computerized Material Management System

- To provide a computerized based system and management function in managing materials.
- To provide a secure data management system by using a security system with different level of authorization.
- To enable employee to view and print out various type of management report

1.3.2 Finding the Net Profit of Company

- To view company income monthly
- Enable to print out the report

1.3.3 Employee Wages Calculation

- To make easily in calculation of different level of employee wages

1.3.4 Employee Income Statement

- Employee can view their own income within a month included the overtime

1.3.5 Job Schedule

- To view employee duties and have earlier job planning.

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