PORT LOG ENTRY MANAGEMENT SYSTEM (PLEMS)

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA
BORANG PENGESAHAN STATUS TESIS*

JUDUL: PORT LOG ENTRY MANAGEMENT SYSTEM (PLEMS)

SESJI PENGAJIAN: 2009/2010

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

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SUPERVISOR: ____________________________ Date: 11/11/2009
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DEDICATION

To my beloved mother, Puan Aishah binti Ismail, my precious supervisor, Dr. Abdul Razak Hussain, my best friends, Muhamad Rodzi Md. Isa, lecturers, my friends and all 3 BITS students for giving assistant to complete this project successfully.
ACKNOWLEDGEMENTS

Alhamdulillah, praise to Allah S.W.T, I am very pleased and grateful of being able to finish my final project. First and foremost, I would like to thank my beloved mother and my family for their support and motivation throughout my project.

I would like to express my gratitude to my supervisor, Dr. Abdul Razak Hussain, who expertise, understanding, and patience, added considerable to my success of completing this thesis. I appreciate his vast knowledge and skill in many areas and him assistant in writing and completing this report.

I’m also appreciate to my very best friend, Muhamad Rodzi Md Isa, my friends in and outside UTeM for their exchanges of knowledge, skills, and venting of frustration while completing my final project program which helped enrich the experience. Although, I would like to thanks for many people that have contributed and helped to complete this project. I take sole responsibility for errors.

Lastly, I would like to thanks everyone who was involved for helping in this project, directly or indirectly. Once again, I would like to wish all of them with my highest respect because they really deserve it. Wassalam.
ABSTRACT

Efficient and effective management in organization very important to achieved organization goal. A good organization is in the event managed. System that was developed is Port Log Entry Management System. Port Log Entry Management System was a system developed based on web applications used by staff and supervisor. Main objectives to in building Port Log Entry Management System to facilitate staff recorded log daily and facilitate supervisor to check on record had been made by staff. Port Log Entry Management System have five modules which are module login, planner, recording daily log, report and staff information. The development of this project used the V-shape Model methodology, Adobe Dreamweaver CS3 as software, PHP as the programming language whereas MySQL is for the database management system. This system developed by using SSDAM methodology. Overall, this system can help and facilitate management through more orderly manner.
ABSTRAK

Pengurusan yang cekap dan berkesan dalam sesebuah organisasi adalah sangat penting bagi mencapai matlamat organisasi. Pengurusan yang baik menunjukkan organisasi itu berada dalam keadaan terurus. Sistem yang dibangunkan adalah 'Port Log Entry Management System'. 'Port Log Entry Management System' adalah satu sistem yang dibangunkan berasaskan aplikasi web yang digunakan oleh staff dan supervisor. Objektif-objektif utama untuk dalam membangunkan 'PLEMS' bagi memudahkan staff merekod log harian serta memudahkan supervisor untuk memeriksa rekod yang telah dibuat oleh staff. 'Port Log Entry Management System' merangkumi lima modul iaitu modul login, jadual kerja, rekod log harian, laporan dan maklumat staff. Bagi proses pembangunan, sistem ini menggunakan kaedah Model V-Shape, Adobe Dreamweaver CS3 sebagai perisian, PHP sebagai bahasa pengaturcaraan manakala MySQL adalah bagi sistem pengurusan pangkalan data. Sistem ini dibangunkan dengan menggunakan metodologi SSDAM. Secara keseluruhannya, sistem ini dapat membantu dan memudahkan pengurusan secara lebih teratur.
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<td>Data Definition Language</td>
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<td>Entity Relationship Diagram</td>
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<td>GUI</td>
<td>Graphical User Interface</td>
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<td>HTTP</td>
<td>Hypertext Transfer Protocol</td>
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<td>LAN</td>
<td>Local Area Network</td>
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<td>MySQL</td>
<td>Structured Query Language</td>
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<td>PC</td>
<td>Personal Computer</td>
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<td>PHP</td>
<td>Pre-Hypertext Preprocessor</td>
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<td>RAM</td>
<td>Random Access Memory</td>
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<td>UTP</td>
<td>Unshielded Twisted Pair</td>
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CHAPTER I

INTRODUCTION

1.1 Project Background

Penang Port is accessible via the North Channel and South Channel. The North Channel approach has a depth of 10.7 metres A.C.D. Due to the 13.5 kilometres Penang Bridge, access through the South Channel is restricted to vessels with a draft of 5.8 metres A.C.D. and less, and an air-draft not exceeding 28 metres. The North-South Highway, spanning the west coast of Peninsular Malaysia from the Malaysia-Thailand border to the Malaysia-Singapore border, places Penang Port within easy reach of all major economic regions in the country. Penang Port is also linked directly with the east coast of Peninsular Malaysia via the East-West Highway.

The Shipping Department of Penang Port Sdn. Bhd (PPSB) has 6 shipping ports altogether North Butterworth Container Terminal (NBCT), Butterworth Container Terminal (BCT), Vegetables Oil Tanker Pier (VOTP), Prai Bulk Cargo Terminal (PBCT), Cargo and Swettenham Pier. Figure 1.1 shows the map of ports in Penang. Information on ship arrivals are updated on a daily basis by berth planning executives. Operating of shipping is on a 365-days a year, 7-days a week, 24-hours a day basis with a rotation of 3 shifts.
Figure 1.1: Map of ports
The department has its own current system but the system is quite simple. The system is not managed by any supervisor and the staff just logged what they have done each day. At the end of their shift, they would review their log entries and print them. This makes supervision of the staff activity difficult to monitor. The current system also does not have the duration of their work done, so supervisors not know the total time spent on each task.

This proposed system is developed as an upgrade to the current system and it will have two types of users which is staff and supervisor. Supervisors will manage and monitor the staff activities. Supervisors also will add their staff location where the staff will locate and shift that what time user will work. The proposed system is developed to increase the efficiency and usefulness of the current system.
1.2 Problem Statements

The system will be developed based on the problems that occur from the current system. The problems are stated below:

i. Improper log recording

The system is not managed by any supervisor and staff just logs what they have makes daily when they work. In the end of their shift, staff just previews what they write in log and print it. Staff or supervisor doesn’t know the work status whether the work in done or not.

ii. Monitoring difficulties

The current system is not managed by any supervisor and staff just logs what they have makes daily when they work. Staff just add the log and print it at the end of their work. So supervisor not knows about the work status.

iii. Inability to view work status

In the end of staff work time, the current system didn’t give the status of the work, so supervisor don’t know whether the work is still on going or done.

iv. Not systematic

The system doesn’t have the duration time of their work that is time start and time finish, so supervisor not know what time the work is finish and done.
1.3 Objectives

This system is developed to fulfill the objectives, which are:

i. Proper log recording

To develop a log system that staff can record daily activities as a revision or report. In the end of their work, staff or supervisor can know the work status whether the work is done or not.

ii. Monitoring facilitated

To give a facilitated to supervisor manage and monitor their staff activities and also monitor activities at the port within 24 hours.

iii. Have work status

To help staff and supervisor knows about work activity whether the work is done or not.

iv. More systematic

To give a system that has the time start and time finish of their work and more systematic and user friendly compare with current system.