COMSTEN MANAGEMENT SYSTEM

KONG EIK MING

This report is submitted in partial fulfillment of the requirement for the Bachelor of Information and Communication Technology (Software Development)

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BORANG PENGESAHAN STATUS TESIS

JUDUL: COMSTEN MANAGEMENT SYSTEM

SESU PENGAJIAN: 2006

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TIDAK TERHAD

(TANDATANGAN PENULIS)

Alamat tetap : Lot 222, Jalan Taman Yong.
Luak Bay, 98000 Miri, Sarawak.

(TANDATANGAN PENYELELIA)

Nama Penyelia

Tarihh : 22/11/2006

Tarikh : 22/11/2006

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Comsten Management System

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SUPERVISOR : ___________________ DATE: ________
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DEDICATION

This is a special dedication to all that help me a lot in this project.

Firstly, I would like to give my dedication to my beloved family. They give me fully support on this project, to collect the information and also support my expense in study life, so that I can pay full attention to complete this project. Thanks for their patience and love towards me that really encourages me. I really appreciate them for their kindness and understanding for me.

Secondly, I would like to give my appreciation to Puan Massila Kamalrudin for being my supportive supervisor. She gave me a lot of guidance and directions from the beginning of the project planning until the completion of the project. Encouragements and supports are greatly given by her as a supervisor to ensure that I can complete this project in proper. There are so many that have Puan Massila Kamalrudin as my guide supervisor to complete this project.

Thirdly, I would like to show my appreciation to the pipes factory Comstem Industries Sdn. Bhd for allowing me to simulate the education's need into this whole project. Again, I wish to thank the Factory Comstem Industries Sdn. Bhd for being so kind to me and this project.
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I would like to thank Puan Massila Kamalrudin for giving me assistant to complete this project successfully. Puan Massila Kamalrudin is my PSM supervisor, which had helped me and gave me a lot of useful advance in completed the project documentation. She had shown me plenty reference and knowledge in completed the project. With her advice, comments and guidance, I am able to accomplish the report within the given time.

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Beside that, I wish to thank my course mate and friends from KUTKM and also others that may not have been mentioned here. With these supports, I can complete this system program successfully.
ABSTRACT

This is a system specially developed for the pipes produce factory named Comsten Industries Sdn Bhd located in Sibu, Sarawak. This is a system which is easy to use by every level of user. The system developed based on the way of Comsten Management environment. This is an application project. The purpose of this system is to help the factory manager to manage the factory, and also to standardize the factory management system. All the reports can be easily generated using the function provided in the Comsten Management System. Within this system, the processes of payroll are simplified and easy to use. This system developed by using the J2EE in Eclipse development tools in majority. The Eclipse plugin may be needed like Jigloo, Hibernate, API, and other else. The report generated by using the crystal report. This system developed based on prototype module that which are reusable. The system used object oriented methodology and using UML (unified Modeling Language) notation in analyzing, designing and architecting the system.
ABSTRAK

# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>CHAPTER</th>
<th>SUBJECT</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DECLARATION</td>
<td>ii</td>
</tr>
<tr>
<td></td>
<td>DEDICATION</td>
<td>iii</td>
</tr>
<tr>
<td></td>
<td>ACKNOWLEDGEMENTS</td>
<td>iv</td>
</tr>
<tr>
<td></td>
<td>ABSTRACT</td>
<td>v</td>
</tr>
<tr>
<td></td>
<td>ABSTRAK</td>
<td>vi</td>
</tr>
<tr>
<td></td>
<td>TABLE OF CONTENTS</td>
<td>vii</td>
</tr>
<tr>
<td></td>
<td>LIST OF TABLES</td>
<td>xii</td>
</tr>
<tr>
<td></td>
<td>LIST OF FIGURES</td>
<td>xiv</td>
</tr>
<tr>
<td></td>
<td>LIST OF ABBREVIATIONS</td>
<td>xvi</td>
</tr>
<tr>
<td></td>
<td>LIST OF APPENDICES</td>
<td>xvii</td>
</tr>
<tr>
<td></td>
<td>CHAPTER I  INTRODUCTION</td>
<td>1 – 5</td>
</tr>
<tr>
<td></td>
<td>1.1 Project Background</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1.2 Problem Statements</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>1.3 Objectives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1.4 Scope</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>1.5 Project Significance</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>1.6 Expected Output</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>1.7 Conclusion</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>CHAPTER II  LITERATURE REVIEW AND PROJECT METHODOLOGY</td>
<td>6-16</td>
</tr>
<tr>
<td></td>
<td>2.1 Introduction</td>
<td>6</td>
</tr>
</tbody>
</table>
2.2 Fact and Finding
   2.2.1 Monitor Factory Management 7
   2.2.2 AutoCount Payroll Software 8
2.3 Project Methodology
   2.3.1 Requirements Planning 10
   2.3.2 User Design 10
   2.3.3 Construction 11
   2.3.4 Transition 11
2.4 Project Requirement
   2.4.1 Software Requirement 12
   2.4.2 Hardware Requirement 14
   2.4.3 Other Requirement 15
2.5 Conclusion 16

CHAPTER III ANALYSIS 17-52
3.1 Introduction 17
3.2 Problems Analysis 18
   3.2.1 Background of current system 18
   3.2.2 Problem statements 19
3.3 Requirement Analysis 21
   3.3.1 Functional Requirement 21
   3.3.2 Business Flow 24
   3.3.3 Use Case View 27
   3.3.4 Actors 28
   3.3.5 Use Case Description 29
      3.3.5.1 Worker Information Management 29
      3.3.5.2 Add Manufacture 34
      3.3.5.3 Add Sales 36
      3.3.5.4 Take Attendance 39
      3.3.5.5 Calculate Payroll 42
      3.3.5.6 Lent Record Description 44
3.3.6 Sequence Diagram
3.4 Software Requirement
3.5 Hardware Requirement
3.6 Other Requirements
3.7 Conclusion

CHAPTER IV DESIGN
4.1 Introduction
4.2 High-Level Design
  4.2.1 Raw Data
  4.2.2 System Architecture
    4.2.2.1 Static Organization
    4.2.2.2 High Level Class Diagram
  4.2.3 User Interface Design
    4.2.3.1 Navigation Design
    4.2.3.2 Input Design
    4.2.3.3 Output Design
  4.2.4 Database Design
    4.2.4.1 Conceptual and Logical Database Design
  4.2.5 Deployment View
4.3 Low-Level Design
  4.3.1 Detailed Design
  4.3.2 Physical Database Design
4.4 Conclusion

CHAPTER V IMPLEMENTATION
5.1 Introduction
5.2 Software Development Environment
    Setup
      5.2.1 Software Architecture
5.2.2 Hardware Architecture 88
5.3 Software Configuration Management 88
  5.3.1 Configure Environment Setup 88
  5.3.2 Version Control Procedure 89
5.4 Implementation Status 90
5.5 Conclusion 91

CHAPTER VI TESTING 92-108
6.1 Introduction 92
6.2 Test Plan 93
  6.2.1 Test Organization 93
  6.2.2 Test Environment 93
  6.2.3 Test Schedule 94
6.3 Test Strategies 95
  6.3.1 Classes of Tests 96
    6.3.1.1 Performance Testing 96
    6.3.1.2 Reliability Testing 96
    6.3.1.3 Security Testing 97
6.4 Test Design 97
  6.4.1 Test Description 97
  6.4.2 Test Data 102
6.5 Test Case Results 103
  6.5.1 Test Result for Login 104
  6.5.2 Test Result for Add New Or Edit worker 105
  6.5.3 Test Result for Create and Delete System User 105
  6.5.4 Test Result for Search and Add Lent Record 106
  6.5.5 Test Result for Employee Attendance 106
  6.5.6 Test Result for Pipes Sales 107
6.6 Conclusion 108-111

CHAPTER VII PROJECT CONCLUSION 109-

7.1 Observation 109

7.1.1 Strength 109

7.1.2 Weakness 109

7.2 Propositions for Improvement 110

7.3 Contribution 111

7.4 Conclusion 111

REFERENCES 112

APPENDICES 113
# LIST OF TABLES

<table>
<thead>
<tr>
<th>TABLE</th>
<th>TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>Admin Table Row Data</td>
<td>54</td>
</tr>
<tr>
<td>4.2</td>
<td>Worked Time Table Row Data</td>
<td>54</td>
</tr>
<tr>
<td>4.3</td>
<td>Money Lent Table Row Data</td>
<td>55</td>
</tr>
<tr>
<td>4.4</td>
<td>Manufacture Record Table Row Data</td>
<td>55</td>
</tr>
<tr>
<td>4.5</td>
<td>Sales Record Table Row Data</td>
<td>55</td>
</tr>
<tr>
<td>4.6</td>
<td>Inventory Table Row Data</td>
<td>56</td>
</tr>
<tr>
<td>4.7</td>
<td>Time Record Table Row Data</td>
<td>56</td>
</tr>
<tr>
<td>4.8</td>
<td>User Input design</td>
<td>69</td>
</tr>
<tr>
<td>4.9</td>
<td>System Output Design</td>
<td>69</td>
</tr>
<tr>
<td>4.10</td>
<td>Worker Table</td>
<td>83</td>
</tr>
<tr>
<td>4.11</td>
<td>WorkedTimeRecord Table</td>
<td>83</td>
</tr>
<tr>
<td>4.12</td>
<td>LentRecord Table</td>
<td>83</td>
</tr>
<tr>
<td>4.13</td>
<td>ManufactureRecord Table</td>
<td>84</td>
</tr>
<tr>
<td>4.14</td>
<td>Pipes Table</td>
<td>84</td>
</tr>
<tr>
<td>4.15</td>
<td>SalesRecord Table</td>
<td>84</td>
</tr>
<tr>
<td>5.1</td>
<td>Implementation Status</td>
<td>91</td>
</tr>
<tr>
<td>6.1</td>
<td>Test Schedule</td>
<td>95</td>
</tr>
<tr>
<td>6.2</td>
<td>Admin Unit Test</td>
<td>98</td>
</tr>
<tr>
<td>6.3</td>
<td>Inventory Unit Test</td>
<td>99</td>
</tr>
<tr>
<td>6.4</td>
<td>Manufacture Unit Test</td>
<td>99</td>
</tr>
<tr>
<td>6.5</td>
<td>Payroll Unit Test</td>
<td>100</td>
</tr>
<tr>
<td>6.6</td>
<td>Worker Unit Test</td>
<td>101</td>
</tr>
<tr>
<td>6.7</td>
<td>System Integration Testing</td>
<td>102</td>
</tr>
<tr>
<td>TABLE</td>
<td>TITLE</td>
<td>PAGE</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>6.8</td>
<td>Test Summary Result</td>
<td>102</td>
</tr>
<tr>
<td>6.9</td>
<td>Test Data</td>
<td>103</td>
</tr>
<tr>
<td>6.10</td>
<td>Test Condition and Test Result for Login</td>
<td>104</td>
</tr>
<tr>
<td>6.11</td>
<td>Test Condition and Test Result for Worker Detail access</td>
<td>105</td>
</tr>
<tr>
<td>6.12</td>
<td>Test Condition and Test Result for Create and Delete System User</td>
<td>106</td>
</tr>
<tr>
<td>6.13</td>
<td>Test Condition and Test Result for Add Lent Record</td>
<td>106</td>
</tr>
<tr>
<td>6.14</td>
<td>Test Condition and Test Result for Automate Scheduling</td>
<td>107</td>
</tr>
<tr>
<td>6.15</td>
<td>Test Condition and Test Result for Pipes Sales</td>
<td>107</td>
</tr>
</tbody>
</table>
# LIST OF FIGURE

<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>RAD Diagram</td>
<td>9</td>
</tr>
<tr>
<td>2.2</td>
<td>Four RAD Stage</td>
<td>10</td>
</tr>
<tr>
<td>3.1</td>
<td>As-is System Modeling for Payroll</td>
<td>20</td>
</tr>
<tr>
<td>3.2</td>
<td>As-is System Modeling for Inventory Management</td>
<td>20</td>
</tr>
<tr>
<td>3.3</td>
<td>Overview of Comstem Industries Management</td>
<td>23</td>
</tr>
<tr>
<td>3.4</td>
<td>To-be System Process Model for Payroll</td>
<td>24</td>
</tr>
<tr>
<td>3.5</td>
<td>To-be System Process Model for Inventory</td>
<td>25</td>
</tr>
<tr>
<td>3.6</td>
<td>To-be System Process Model for Admin</td>
<td>26</td>
</tr>
<tr>
<td>3.7</td>
<td>Global view of use-case model</td>
<td>27</td>
</tr>
<tr>
<td>3.8</td>
<td>3.3.5.1 use case description</td>
<td>33</td>
</tr>
<tr>
<td>3.9</td>
<td>3.3.5.2 Use-case Description</td>
<td>36</td>
</tr>
<tr>
<td>3.10</td>
<td>3.3.5.3 Use case Description</td>
<td>38</td>
</tr>
<tr>
<td>3.11</td>
<td>3.3.5.4 user case description</td>
<td>41</td>
</tr>
<tr>
<td>3.12</td>
<td>3.3.5.6 use case description</td>
<td>46</td>
</tr>
<tr>
<td>3.13</td>
<td>Sequence Diagram for Worker</td>
<td>47</td>
</tr>
<tr>
<td>3.14</td>
<td>Sequence Diagram for Payroll</td>
<td>48</td>
</tr>
<tr>
<td>3.15</td>
<td>Sequence Diagram for Inventory</td>
<td>49</td>
</tr>
<tr>
<td>3.16</td>
<td>Sequence Diagram for Materials</td>
<td>50</td>
</tr>
<tr>
<td>4.1</td>
<td>Overview of 3 Tier Comsten Management Application</td>
<td>57</td>
</tr>
<tr>
<td>4.2</td>
<td>The Comsten Management Package</td>
<td>58</td>
</tr>
</tbody>
</table>
4.3 Class Diagram for Comstem Worker Information System 59
4.4 Class Diagram for Comstem Payroll System 60
4.5 Class Diagram for Comstem Inventory System 61
4.6 Login Interface 62
4.7 Comsten Management Main Manu 63
4.8 Worker Borrow Money Form Interface 63
4.9 Employee Work Time Interface 64
4.10 Worker Manufacture Interface 64
4.11 Pipes Sales Interface 65
4.12 Worker Detail Interface 65
4.13 Create System Admin Interface 66
4.14 Inventory Detail Interface 66
4.15 Interface Navigation Design 67
4.16 ER Diagram of Comsten Management System 70
4.17 Deployment view of Comsten System 72
4.18 Payroll Calculation Interface 70
4.19 Monthly Inventory Report Interface 71
4.20 Material Monthly Report Interface 71
4.21 Monthly Compounding Materials Report Interface 72
4.22 Interface Navigation Design 73
4.23 ER Diagram of Comsten Management System 77
4.24 Deployment view of Comsten System 79
5.1 Software Architecture 87
5.2 Hardware Architecture 88
LIST OF ABBREVIATIONS

1. KUTKM  | Kolej Universiti Teknikal Kebangsaan Malaysia
2. PSM     | Project Sijana Muda
3. OOAD    | Object Oriented Analysis and Design
4. UML     | Unified Modeling Language
5. CPU     | Central Processing Unit
6. ERD     | Entity Relationship Diagram.
# LIST OF APPENDICES

<table>
<thead>
<tr>
<th></th>
<th>USER MANUAL</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>114</td>
</tr>
<tr>
<td>2</td>
<td>AS-IS OPERATION FORM</td>
<td>124</td>
</tr>
</tbody>
</table>
CHAPTER I

INTRODUCTION

1.1 Project Background

This is a system designed special for Comsten Industry Sdn Bhd. The main concept of this system is help the Industry manager to manage the worker record, payroll calculation, inventory in and out, and also the quantity control of material.

As an industry manager have to keep the record of entire worker. The record that needed to keep for each worker such as worker daily work hour, salary rate, worker details, worker duty, worker monthly payroll and so on. The welfare provided from Industry to all workers, if the worker needed money for daily use, they can borrow money from industry, after that the worker salary of the month will be getting minus best on how many money had been borrowed. In this care, worker’s monthly salary must not less than total money had been lent of the month.

Manager has to manage the inventory production- pipes in and out. Manager has to keep track of each type PVC pipe that wont out of stock while customer make pipes purchase order in time so that customer can go though their project. The summaries of the total of each pipe produced have to keep by monthly and amount of each time pipes had been sold also have to keep as refer. The record should keep systematically.
1.2 Problem statement(s)

The detail of each worker should be kept in biodata of worker. Each worker have their own total work time of the month, salary rate, experience, duty, bank account number and other else. All those detail needed to refer back every time to calculate the worker monthly salary, and also to change the hourly salary rate and other else. There are not clear enough and also not easy to be edited if all those details are kept in paper work. The record should include all the previous industry workers. It becomes a large number for worker’s details to keep. All the worker’s detail should keep as secret cannot referred by other people else than manager.

Payroll affected by workers’ salary rate, EPF, SOCSO, total work time of the month and also the total money had being lent to the worker. For the payroll calculations, the formula of payroll calculation is totally same but values are difference for each worker. In this case, the manager has to calculate all the worker salary one by one at the end of each month.

In the process of pipes manufacture, each worker should list out the detail of the process manufacture and total of pipes had been produced. After that the supervisor make testing and checking of the pipes manufacture. Lastly the manager should make the summaries of the manufacture, and make update of each types of pipes in documentation. By the total pipes in store that documented, manager manage schedule the process of manufacturing pipes.
1.3 Objective

Worker details storage
- To store the details information of each worker more systematic.
- To store each worker salary rate for calculating the payroll.
- To store the total work hour of each worker.
- To store total amount of money lent to the workers.

Payroll Calculation
- Calculate the salary of each worker.
- Calculate the EPF and also SOCSO.

Inventory control
- To store the quantity production of each type of pipe daily.
- To store as record of each time pipes exported.
- As a control of the total material amount in store.
1.4 Scopes

This system is for the factory administrator to manage the factory more effective. All the documentation becomes standardize and zero error. The management of industry will be much easier. The processes of manufacturing also had being simplified.

This system including the worker’s detail, attendance, payroll, worker respond in manufacturing process and other else. All of those are manage by the industry manager. This system including the basic of this management and reduce the random of mistake in laugh number of production and also the product export. The calculation of worker salary should be standardized and be more secured. The system also can keeps record of each worker, and store it. The process of updating manufacture, inventory and worker detail become automatically.

1.5 Project significance

The system can help the industry manager manage the industry in simplified way and also more systematic. The system will help the manager to generate and summaries the manufacturing. The industry manage also can use this system to calculate each workers payroll at the end of each month. With this system, the manager can know the overall of inventory status by clearly, accurate and easy. The factory can avoid from out of store if customer needed product on time. The deceit in worker attendance can be minimized.
1.6 Expected Output

- Clear and editable worker’s information detail.
- Calculate worker’s salary base on total work hours.
- Record total amount money had been lent to each worker.
- Calculate EPF, SOCSO of each worker.
- Auto- summaries the manufacturing detail.
- Record pipes production of each worker.
- More secure in manufacture documentation.

1.7 Conclusion

With this system the management of the factory can be more standardize and systematic. The probability of damage because of human negligence in management can be reducing to minimum. The industry manager can pay more attention to manage others like the customer service, better sales, workers welfare and other else. This system designed special for help the Comsten Industries in manufacturing management.