Abstract

Periplus is a book distributor company, which specialized in importing popular magazines, popular readings, Maps, Cooking Books, Child Books, international newspaper, and other Hobby related readings. As the sole distributor of popular books, Periplus only has minor market competitor and as the market evolve, there are necessity to have e-commerce system in order to get advantage from other competitors. Our objective is assist non-IT related company into e-commerce world. This thesis is about making an e-commerce website and documentation on what is the most important thing for a non-IT related company to have on their website, the thesis will have a documentation about the website and documentation on analysis we’ve made during completing the website.

The true goal of the thesis is to aid other when developing a software especially website for non-IT related company. We use PHP and MYSQL to build this e-commerce website. By the end of this thesis, we hope the website can be used by the customers, people who only browse for books, store staffs, Periplus clients, and
the headquarters staffs at Periplus. The website implementation will provide the users with sufficient information about Periplus products and well serves its purpose to become a promotion media for Periplus products.
Preface

We would like to thank our Lecturers in the completion of our thesis according to the assigned timetable. This thesis covers designing a system for Periplus (Website) and documenting the whole process is mandatory to graduate and obtain Sarjana Komputer degree majoring in Computer Science.

We would like to express our gratitude to all the people who directly or indirectly help us to prepare this thesis:

1. Mr. Firdaus Alamsyah as the former Program Director of International Undergraduate Program of Bina Nusantara and current Executive Director of Joseph Wibowo Center.
2. Mr. Minaldi Loeis M.Sc, MM as our supervisor, who has guided us and supported us until the final of this thesis.
3. Mr. Baharuddin Suryadi, as Laboratory and IT support who helped us in facilitating any problem in the Laboratory room.
4. Periplus Company, who cooperated with us so we can work on this thesis smoothly.
5. Parents, for all their prayers and support.
6. Colleagues, who assisted and supported us,

Jakarta, July 2005

Writer
CHAPTER 1  INTRODUCTION ........ERROR! BOOKMARK NOT DEFINED.
  1.1  ABOUT THE COMPANY ................ERROR! BOOKMARK NOT DEFINED.
  1.2  THE PROJECT ..............................ERROR! BOOKMARK NOT DEFINED.
  1.3  PERCEIVED PROBLEM ....................ERROR! BOOKMARK NOT DEFINED.
  1.4  PROPOSED APPROACHED ..................ERROR! BOOKMARK NOT DEFINED.
  1.5  AIMED BENEFITS .........................ERROR! BOOKMARK NOT DEFINED.

CHAPTER 2  THEORETICAL FOUNDATION ........ERROR! BOOKMARK NOT DEFINED.
  2.1  INFORMATION SYSTEM UNDERSTANDING ....ERROR! BOOKMARK NOT DEFINED.
  2.1.1  System Analysis ..........................Error! Bookmark not defined.
  2.1.2  System Design..............................Error! Bookmark not defined.
  2.2  DATABASE .................................ERROR! BOOKMARK NOT DEFINED.
  2.2.1  Concept of Database ....................Error! Bookmark not defined.
  2.2.2  DBMS ......................................Error! Bookmark not defined.
  2.2.3  Advantages and Disadvantages of Database Error! Bookmark not defined.
  2.3  INTERNET .................................ERROR! BOOKMARK NOT DEFINED.
  2.3.1  Internet Understanding ..................Error! Bookmark not defined.
  2.3.2  History and Development ...............Error! Bookmark not defined.
  2.3.3  URL .......................................Error! Bookmark not defined.
  2.3.4  HTTP (Hypertext Transfer Protocol) ......Error! Bookmark not defined.
  2.3.5  Web Server ...............................Error! Bookmark not defined.
  2.3.6  Web Browser ..............................Error! Bookmark not defined.
  2.4  SWOT ANALYSIS ............................ERROR! BOOKMARK NOT DEFINED.
  2.4.1  SWOT Analysis Understanding ..........Error! Bookmark not defined.
  2.4.2  Types of SWOT Analysis ..................Error! Bookmark not defined.
  2.5  E-BUSINESS .................................ERROR! BOOKMARK NOT DEFINED.
  2.6  TOOLS THAT WE USE .......................ERROR! BOOKMARK NOT DEFINED.
  2.6.1  HTML (Hypertext Markup Language) ....Error! Bookmark not defined.
  2.6.2  PHP .........................................Error! Bookmark not defined.
  2.6.3  Macromedia Dreamweaver MX 2004 ....Error! Bookmark not defined.
  2.6.4  MySQL ......................................Error! Bookmark not defined.
  2.6.5  PHPMyAdmin ..............................Error! Bookmark not defined.
  2.7  HUMAN COMPUTER INTERACTION ..........ERROR! BOOKMARK NOT DEFINED.
  2.7.1  Human Computer Interaction Understanding ........Error! Bookmark not defined.
CHAPTER 3 PROBLEMS ANALYSIS

3.1 COMPANY BUSINESS PROCESS
3.2 COMPANY ORGANIZATIONAL STRUCTURE
3.3 POLICY AND PROCEDURE
3.4 DATA FLOW DIAGRAM
3.4.2 Context Diagram
3.4.3 Level 1 Data Flow Diagram
3.5 EXISTING PROBLEMS
3.5.1 S.W.O.T Analysis
3.5.2 Periplus Critical Success Factor
Problems that Periplus encounter:
3.6 ALTERNATIVE SOLUTIONS FOR THE PROBLEMS

CHAPTER 4 SOLUTION DESIGN

4.1 PROPOSED SYSTEM DESIGN
4.2 DATA FLOW DIAGRAM
4.2.1 Context Diagram
4.2.2 Data Flow Diagram Level 0
4.2.3 Data Flow Diagram Level 1
4.3 SYSTEM’S MENU STRUCTURE AND HIERARCHY DIAGRAM
4.3.1 Structure Chart
4.4 SYSTEM DATA
4.4.1 Privileges
4.4.2 Data Dictionary
4.4.3 Data Normalization
4.4.4 Data File Specification
4.5 ENTITY RELATIONSHIP DIAGRAM

CHAPTER 5 IMPLEMENTATION

5.1 SYSTEM SPECIFICATION
5.2 IMPLEMENTATION PROCEDURE
5.2.2 User Procedure
5.3 SYSTEM TESTING
5.4 USE CASE DIAGRAM AND ANALYSIS

CHAPTER 6 DISCUSSION
6.1 DISCUSSION .................................................... ERROR! BOOKMARK NOT DEFINED.

CHAPTER 7 CONCLUSION AND RECOMMENDATION. ERROR! BOOKMARK NOT DEFINED.

7.1 CONCLUSION.................................................... ERROR! BOOKMARK NOT DEFINED.
7.2 RECOMMENDATION............................................ ERROR! BOOKMARK NOT DEFINED.

REFERENCES.......................................................... ERROR! BOOKMARK NOT DEFINED.

APPENDIX ............................................................ ERROR! BOOKMARK NOT DEFINED.

CURRICULUM VITAE .............................................. ERROR! BOOKMARK NOT DEFINED.
List of Figure

FIGURE 3.2.1 ORGANIZATIONAL STRUCTURE ..........ERROR! BOOKMARK NOT DEFINED.
FIGURE 3.3.1 BUSINESS FLOW DIAGRAM .............ERROR! BOOKMARK NOT DEFINED.
FIGURE 3.4.2.1 CONTEXT DIAGRAM ........ERROR! BOOKMARK NOT DEFINED.
FIGURE 3.4.3.1 DATA FLOW DIAGRAM LEVEL 1 ..........ERROR! BOOKMARK NOT DEFINED.
FIGURE 4.2.1.1 CONTEXT DIAGRAM FOR CUSTOMER .. ERROR! BOOKMARK NOT DEFINED.
FIGURE 4.2.1.2 CONTEXT DIAGRAM FOR USER ..........ERROR! BOOKMARK NOT DEFINED.
FIGURE 4.2.1.3 CONTEXT DIAGRAM FOR ADMINISTRATOR .. ERROR! BOOKMARK NOT DEFINED.
FIGURE 4.2.2.1 DATA FLOW DIAGRAM LEVEL 0 ..........ERROR! BOOKMARK NOT DEFINED.
FIGURE 4.2.3.1 DATA FLOW DIAGRAM LEVEL 1 ..........ERROR! BOOKMARK NOT DEFINED.
FIGURE 4.2.3.2 DATA FLOW DIAGRAM LEVEL 1 ..........ERROR! BOOKMARK NOT DEFINED.
FIGURE 4.3.1.1 HOME PAGE ..................ERROR! BOOKMARK NOT DEFINED.
FIGURE 4.3.1.2 USER HOME (AFTER LOGIN) ..........ERROR! BOOKMARK NOT DEFINED.
FIGURE 4.3.1.3 ADMIN HOME ..................ERROR! BOOKMARK NOT DEFINED.
FIGURE 4.3.1.5 ADMIN PAGE FOR PAGE ................ERROR! BOOKMARK NOT DEFINED.
FIGURE 4.3.1.6 ADMIN PAGE FOR BRANCH ..........ERROR! BOOKMARK NOT DEFINED.
FIGURE 4.3.1.7 ADMIN PAGE FOR EVENT ................ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.10 ADMIN PAGE FOR EDITING PAGE......ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.11 ADMIN PAGE FOR EDITING BRANCH.. ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.12 ADMIN PAGE FOR EDITING EVENT ..... ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.13 ADMIN PAGE FOR EDITING OTHER ..... ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.14 ADMIN PAGE FOR PRODUCT........ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.15 ADMIN PAGE FOR EDITING AUTHORS ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.16 ADMIN PAGE FOR ADDING AUTHORS ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.17 ADMIN PAGE FOR EDITING AUTHORS ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.18 ADMIN PAGE FOR EDITING PUBLISHER..........................ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.19 ADMIN PAGE FOR ADDING PUBLISHER.........................ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.20 ADMIN PAGE FOR EDITING PUBLISHER.........................ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.21 ADMIN PAGE FOR EDITING CATEGORY..........................ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.22 ADMIN PAGE FOR ADDING CATEGORY .........................ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.23 ADMIN PAGE FOR EDITING PUBLISHER.........................ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.24 ADMIN PAGE FOR EDITING PRODUCT ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.25 ADMIN PAGE FOR ADDING PRODUCT ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.26 ADMIN PAGE FOR EDITING PRODUCT ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.27 ADMIN PAGE FOR EDITING MEMBER. ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.28 ADMIN PAGE FOR ADDING MEMBER. ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.29 ADMIN PAGE FOR EDITING MEMBER. ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.30 ADMIN PAGE FOR EDITING TRANSACTION ................. ERROR! BOOKMARK NOT DEFINED.
FIGURE 5.2.2.31 ADMIN PAGE FOR EDITING TRANSACTION ................. ERROR! BOOKMARK NOT DEFINED.
List of tables

TABLES 3.6.1 S.W.O.T-SOLUTION COMPARISON...ERROR! BOOKMARK NOT DEFINED.
TABLE 4.1. FEATURE AND USER PRIVILEGE TABLE .... ERROR! BOOKMARK NOT DEFINED.
TABLE 4.4.4.1 AUTHOR FILE SPECIFICATION .......ERROR! BOOKMARK NOT DEFINED.
TABLE 4.4.4.2 BRANCH FILE SPECIFICATION ..........ERROR! BOOKMARK NOT DEFINED.
TABLE 4.4.4.3 CATEGORY FILE SPECIFICATION ...ERROR! BOOKMARK NOT DEFINED.
TABLE 4.4.4.4 EVENT FILE SPECIFICATION..........ERROR! BOOKMARK NOT DEFINED.
TABLE 4.4.4.5 MEMBERSHIP FILE SPECIFICATION.......ERROR! BOOKMARK NOT DEFINED.
TABLE 4.4.4.6 ORDERS FILE SPECIFICATION.........ERROR! BOOKMARK NOT DEFINED.
TABLE 4.4.4.7 PARAMETER FILE SPECIFICATION.ERROR! BOOKMARK NOT DEFINED.
TABLE 4.4.4.8 PRODUCT FILE SPECIFICATION .....ERROR! BOOKMARK NOT DEFINED.
TABLE 4.4.4.9 PUBLISHER FILE SPECIFICATION ...ERROR! BOOKMARK NOT DEFINED.
TABLE 4.4.4.10 TITLEAUTHOR FILE SPECIFICATION. .... ERROR! BOOKMARK NOT DEFINED.
TABLE 4.4.4.11 TITLEPUBLISH FILE SPECIFICATION. .... ERROR! BOOKMARK NOT DEFINED.
TABLE 5.2.1.1 CLIENT IMPLEMENTATION.............ERROR! BOOKMARK NOT DEFINED.
TABLE 5.3.1 SYSTEM TESTING ..................ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.1 LOGIN USE CASE...............ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.2 SEARCH PRODUCT USE CASE........ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.3 SIGN UP USE CASE........ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.4 ORDER PRODUCT USE CASE..........ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.5 DELETE ITEMS ORDER USE CASE .....ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.6 VIEW ITEMS ORDER USE CASE ........ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.7 ADMIN ADD AUTHOR RECORD USE CASE ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.8 ADMIN DELETE AUTHOR RECORD USE CASE...............ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.9 ADMIN EDIT AUTHOR IN THE DATABASE USE CASE .....ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.10 ADMIN ADD NEW IN THE PUBLISHER DATABASE USE CASE ..........................................................ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.11 ADMIN DELETE IN THE PUBLISHER DATABASE USE CASE ..........................................................ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.12 ADMIN EDIT IN THE PUBLISHER DATABASE USE CASE ..........................................................ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.13 ADMIN ADD NEW IN THE PRODUCT DATABASE USE CASE ..........................................................ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.14 ADMIN DELETE IN THE PRODUCT DATABASE USE CASE ..........................................................ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.15 ADMIN EDIT IN THE PRODUCT DATABASE USE CASE .ERROR! BOOKMARK NOT DEFINED.
TABLE 5.4.16 ADMIN ADD NEW IN THE MEMBER DATABASE USE CASE ..........................................................ERROR! BOOKMARK NOT DEFINED.
<table>
<thead>
<tr>
<th>Table Number</th>
<th>Description</th>
<th>Error Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.4.17</td>
<td>Admin Delete in the Member Database Use Case</td>
<td>ERROR! Bookmark Not Defined.</td>
</tr>
<tr>
<td>5.4.18</td>
<td>Admin Edit in the Member Database Use Case</td>
<td>ERROR! Bookmark Not Defined.</td>
</tr>
<tr>
<td>5.4.19</td>
<td>Admin Delete in the Order Database Use Case</td>
<td>ERROR! Bookmark Not Defined.</td>
</tr>
<tr>
<td>5.4.20</td>
<td>Admin Edit in the Order Database Use Case</td>
<td>ERROR! Bookmark Not Defined.</td>
</tr>
</tbody>
</table>