ONLINE BOOK RENTAL SYSTEM (OBRS) FOR BOOK X-CHANGE SDN BHD

NUR AMALINA BT ABU BAKAR
BORANG PENGESAHAN STATUS TESIS

JUDUL: ONLINE BOOK RENTAL SYSTEM FOR BOOK X-CHANGE SDN BHD (OBRS)

SESJI PENGAJIAN: 2010/2011

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(TANDATANGAN PENYELIA)
ZAHRIAH BT OTHMAN
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ONLINE BOOK RENTAL SYSTEM (OBRS) FOR BOOK X-CHANGE SDN BHD

NUR AMALINA BT ABU BAKAR

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

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
DECLARATION

I hereby declare that this project report entitled

ONLINE BOOK RENTAL SYSTEM (OBRS) FOR BOOK X-CHANGE SDN BHD

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

STUDENT : ______________________________ Date: 8 JULY 2011
(NUR AMALINA BT ABU BAKAR)

SUPERVISOR : __________________________ Date: 8 JULY 2011
(ZAHRIAH BT OTHMAN)
DEDICATION

To my father, my supervisor and not forgetting my fellow friends, there is no doubt that in my mind that without their continued support and counsel I could not have completed this process.
ACKNOWLEDGEMENTS

The special thank goes to my helpful supervisor, Puan Zahriah Bt Othman. The supervision and support that she gave truly help the progression and smoothness of the project completion. The co-operation is much indeed appreciated.

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Last but not least I would like to thank my friends especially those who has accessed the system and give their very much valuable comments as well as help me to improvise the system.
ABSTRACT

Online Book Rental System (OBRS) is a needed and profitable investment for Book X-Change organization. This is because the implementation of OBRS is due to the problems of traditional walk-in rentals which are time and effort consuming. Furthermore, the walk-in rental does not fully utilize the internet environment which has been manipulated by other books company. Thus, the objective that are reflected to the problem arises are to develop OBRS which can provide a convenience services of renting book online for the readers and to optimize the administration management based on user's preferences. The target users of OBRS are the potential readers and administrators that manage the website. OBRS is using 3-tier web based application as the architecture also PHP and MySQL as the software and bottom-up black box testing as test strategies during development and testing phases. OBRS applies e-commerce, online transaction processing and database integration techniques in computer science field to make the prototype useful and helpful to the OBRS user. Overall, OBRS has performed well in optimizing those tools and techniques especially the e-payment process that embedded in OBRS.
ABSTRAK

Sistem Tempahan Buku Atas Talian (OBRS) adalah satu bentuk kemudahan yang sangat diperlukan hari ini sebagai sebuah pelaburan yang menguntungkan bagi Book X-Change Sdn Bhd. Ini adalah kerana pelaksanaan OBRS adalah disebabkan masalah sistem sewaan secara tradisional yang sememangnya memakan masa dan tenaga. Oleh itu, objektif pembangunan OBRS berdasarkan masalah tersebut adalah untuk menyediakan perkhidmatan yang selesa untuk menyewa buku atas talian dan mengoptimalkan pengurusan pentadbiran melalui laman sesawang. Sasaran pengguna OBRS adalah terdiri daripada golongan pembaca yang berpotensi dan pentadbir yang bakal menguruskan laman sesawang. OBRS menggunakan 3-tier aplikasi sesawang sebagai seni bina sistem juga PHP dan MySQL sebagai perisian dan ‘bottom-up black-box testing’ sebagai strategi ujian sepanjang fasa pelaksanaan dan pengujian. OBRS menggunakan teknik e-dagang, transaksi talian dan pemprosesan teknik integrasi pangkalan data dalam bidang sains komputer untuk membuat prototaip yang dapat membantu pengguna OBRS. Secara keseluruhan, OBRS berjaya melakukan yang terbaik demi mengoptimalkan penggunaan alatan dan teknik-teknik yang dinyatakan terutamanya dalam proses e-pembayaran yang terkandung dalam OBRS.
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<td>ERD</td>
<td>Entity Relationship Diagram</td>
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<td>DDL</td>
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<td>DBMS</td>
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<td>DCL</td>
<td>Data Control Language</td>
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<td>OBRS</td>
<td>Online Book Rental System</td>
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<td>PHP</td>
<td>Pre-Hypertext Processor</td>
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<td>SQL</td>
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<td>PK</td>
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<td>FK</td>
<td>Foreign Key</td>
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CHAPTER 1

INTRODUCTION

1.1 Project Background

Book X-Change Sdn. Bhd has been a long established book rental store based in Kuala Lumpur, specifically located in the heart of Bangsar, in a corner of Lucky Garden. It is a unique shop that is a treat to book lovers young and old alike. Book X-Change has been in operation since 1992 and over the years has served avid readers in and around city. They currently have over 30,000 English novels as well as comics. Titles range across popular genres such as romance novels, spy thrillers, biographies, children books, horror, management guides and out of print titles. Popular authors include Julia Quinn, John Grisham, Sophie Kinsella and many more are available on the shelves.

Currently, Book X-Change Sdn. Bhd. has undergone a normal book rental business, a walk-in rental. Readers come in, look up for book, pay the rental fee plus the deposit of the book, read them, return back the book and get back the deposit. In order to expand the reader satisfaction especially locally, the management decides to propose a web based system called online renting system. This system hopefully will enhance the market of this book rental.

OBRS is a much needed outsourced facility today as a suitable reading investment. With
this new-generated online application, it could be the time saving solution for busy readers. The application will provide some advances in subscription, browsing catalog, e-payment and maintaining the booklist in carts. In fact, while it is too early to determine the return on investment from the application, it would make the Book X-Change Sdn Bhd more efficient and provide it with better control over important services through the improvement of accuracy and reliability.

1.1 Problem Statement(s)

Libraries can sometimes be discouraging, but as library gets more and more modernized, the availability of a book rental service is kind of hardly useful. Nowadays, the libraries allow readers to reserve books online and when the book is ready for pickup, it sends email.

However, there are some downsides of library which make the existence of book rental an acceptable. Plus, with the better services through online application there is no doubt that it can encourage Malaysian to read and write at low cost expenditure. There are few weaknesses identified from the services of library compared to the book rental. Among the main problems identified are listed below:

- There might be long queue for new books, but just like Book X-Change Sdn. Bhd., it’s hardly to think that book rental services can guarantee the readers will get new releases immediately either, but they might be faster solution than library in getting their valuable readers the new book.
- Readers have to actually go to the library to pick up book, instead of having them mail to you.

In addition, traditional walk-in-rental (one and only services available in Book X-Change Sdn Bhd) is less supportive to compete with wider market out there. Besides, traditional method is time and effort consuming. Furthermore, it is less attractive.
1.2 Objective

The objectives are reflected to the problem statement(s) that has been discussed in the previous section. The objectives of this system are:

(i) To give a right accessibility by providing a convenience service of renting book online and have them delivered right to the readers' doorsteps.
(ii) To help make books more affordable. Renting helps the readers stretch their reading budget. Instead of spending RM1000 over a year where readers can get only 20 books, otherwise they can enjoy up to 100 books by renting instead of buying.
(iii) To provide faster access of information. OBRS is beneficial in providing all the information about the books which readers are considering at catalog view. Readers can find the book genre, description of the book and other information.
(iv) To give an opportunity for administration to provide any offers online in a clear arrangement and allow visitors to book the attractive offer immediately without having a long queue.

1.3 Scope

The scope of this project has been narrowed down to three main scopes starting with the system implementation, target audience and system functions. For system implementation, OBRS will be implemented into Book X-Change Sdn Bhd within Human Resource Department and Information Technology Department. Meanwhile, the target audiences are comprises of reader as a person who will rent objects like novels and comics. To be specific, it will be part of families with children and 16 to 24 youth also administrator staff of the Book X-Change Sdn Bhd who will entered important information like book carts and monitor the rented books.

Further, the system functions are consists of subscription, browse book catalog, rental, e-payment and book catalog customization. For subscription, a new reader who wants to