

ELECTRONIC MUSIC SHOP

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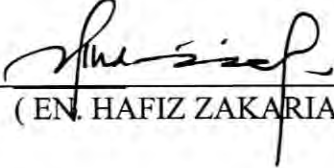
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ABSTRACT

The Electronic Music Shop (E-Music Shop) is an internet/intranet-based electronic commerce system, which enables users to view, order and make transaction online. It is an application that makes use of the web's multi-tier client server architecture. The Electronic Music Shop (E-Music Shop) can be divided into three modules, which are the customer module, administrator module and the general module. The customer module would allow customers to browse through the various CDs, which will be displayed on the online catalogue. It would provide useful tools that would enable the customers to make comparisons on the prices and features of each product. The administrator module will enable the administrator to manage the system in a more effective and systematic way. This module would enable the administrator to view, maintain and analyze the database and also update the content of the web site. The general module would enable the business to check their stock inventory before the customers confirm their order. This module would also require customers to follow certain software and hardware requirements in order to perform their transaction on line. The system architecture of the Electronic Music Shop (E-Music Shop) can be divided into client, web server and database server. The client which is the web browser can access information by connecting to the web server. Whenever, the client wants to retrieve information, it has to submit the request to the web server that will interact with the database server. The database server processes the request and the result is sent back to the web server and finally to the client. The Electronic Music Shop (E-Music Shop) is developed using Active Server Pages (ASP) technology on the Windows 2003 Server platform, utilizing database created by Microsoft Access. Since current client server based database system will be transforming to web-based database system, thus the system of this nature will become essential to everyone in the future.

ABSTRAK

Electronic Music Shop (E-Music Shop) adalah aplikasi internet/intranet yang berasaskan system perdagangan elektronik (e-dagang). Sistem ini membolehkan pengguna untuk melihat, membuat tempahan dan melakukan transaksi secara atas talian. Ini adalah satu aplikasi yang menggunakan senibina web multi-tier pelayan/pelanggan. E-Music Shop boleh dibahagikan kepada 3 modul, iaitu modul pelanggan, modul pentadbir dan modul umum. Modul pelanggan membolehkan pelanggan memilih pelbagai pilihan cakera padat, yang akan dipaparkan pada katalog yg terdapat pada web berkenaan secara atas talian. Ia juga memberi pilihan kepada pelanggan untuk membuat perbezaan harga dan ciri-ciri untuk setiap produk. Modul pentadbir membolehkan pentadbir menguruskan sistem dengan lebih efektif dan sistematik. Modul ini membenarkan pentadbir melihat, menaikkan taraf, menganalisis pangkalan data dan juga menaikkan taraf kandungan pada laman web tersebut. Modul umum membenarkan urusan memeriksa stok sebelum pelanggan membuat tempahan. Modul ini memerlukan pelanggan untuk menggunakan beberapa jenis software dan hardware yang memenuhi keperluan laman tersebut untuk membuat transaksi secara atas talian. Sistem binaan untuk E-Music Shop boleh dibahagikan kepada pelanggan, pelayan web dan pelayan pangkalan data. Pelanggan adalah dimana pelayar web boleh mendapatkan maklumat daripada pelayan web. Apabila pelanggan mahukan maklumat, ia perlu menghantar permohonan kepada pelayan web yang akan berinteraksi dengan pelayan pangkalan data. Pelayan pangkalan data akan memproses permohonan tersebut dan menghantar maklumat yg diperlukan kepada pelayan web dan seterusnya kepada pelanggan berkenaan. E-Music Shop dibangunkan dengan menggunakan teknologi Active Server Page (ASP) yang berpangkalan pada sistem pengoperasian Windows 2003 Server, dengan menggunakan pangkalan data Microsoft Access. Oleh kerana sistem pangkalan data yang berpandukan klien-pelayan masa kini akan ditukar kepada sistem pangkalan data web pada masa hadapan, maka sistem ini akan menjadi satu keperluan masa hadapan.

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ACRONYMS

CD	Compact Disc
DARPA	U.S. Defense Advanced Research Projects Agency
TCP	Transmission Control Protocol
IP	Internet Protocol
NSF	National Science Foundation
NASA	National Aeronautics and Space Administration
OSI	Open Systems Interconnection
DBMS	Database Management System
SSL	Secure Socket Layer
SET	Secure Electronic Transaction
STT	Microsoft's Secure Transaction Technology
HTTP	Hypertext Transfer Protocol
PKI	Public Key Infrastructure
TLS	Transport Layer Security
GUI	Graphical User Interface
RPCs	Remote Procedure Calls
SQL	Standard Query Language
ASCII	American Standard Code for Information Interchange
ASP	Active Server Page
PHP	Personal Home Page
CGI	Common Gateway Interface
FTP	File Transfer Protocol
OLAP	online analytical processing
ISV	Independent Software Vendors
NCSA	National Center for Supercomputing Applications
IIS	Internet Information Server
FAQ	Favourite Answers and Questions
SDLC	Software Development Life Cycle

HTML	Hyper Text Markup Language
NIC	Network Interface Card
EMS	Electronic Music Shop
DFD	Data Flow Diagram
ERD	Entity Relationship Diagram
WWW	World Wide Web
PSM 1	Projek Sarjana Muda 1
PSM 2	Projek Sarjana Muda 2

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CHAPTER 1

INTRODUCTION

1.1 Project Introduction

Electronic Music Shop or in short, E-Music Shop is system that would allow people to order CDs online. Any user who has access to the Internet would be able to connect to E-Music Shop no matter where he or she is. The user can then browse through all his favourite CDs and even get one for himself by ordering online. E-Music Shop would provide sufficient information of the CD and this would enable a customer to make comparison and eventually make a decision on which CD he or she would want to buy. The whole idea of buying CDs at E-Music Shop is supported by a very user-friendly graphical user interface that would attract customers who are both computer literate and illiterate.

Electronic Music Shop (E-Music Shop) is developed to cater for people who are too busy to shop at a regular music store. These people find it so much easier shopping online as it would solve unnecessary difficulties such as being caught in a traffic jam and the hassle of finding a proper parking lot. Thus, with this system, customers would be able to access the information they seek and order the products they want to buy on a 24-hour basis.

All in all, this project would concentrate on the methods where data will be stored and retrieved from the database system. During data retrieval, the data will be

matched with the data stored in the database system before it can be retrieved from the database. In addition, the flow of the inventory control system will be carefully planned and developed so that the system would adapt to the real market. As a conclusion, the development of E-Music Shop would mark a smart business solution for a company.

Electronic Music Shop is an internet/intranet-based system, where the system enables users to view, order and make transaction on-line. E-Music Shop is a virtual music store that offers variety of music CDs which can be bought online. With E-Music Shop, anyone who has access to the Internet would be able to browse through his or her favourite music CDs from the online catalogue and order their favourite CDs once they decide which one to buy. The online catalogue would provide sufficient information for a particular CD such as the album title, artist name, price, and a short description. When a customer decides to buy a CD, he or she would have to use the shopping cart technology provided by the system by adding the product to his or her cart.

E-Music Shop uses the latest web technologies and tools to develop an online business for the current physical music stores. It provides a solution for businesses that are ready and brave enough to take on the e-commerce challenge. These businesses would then be able to explore a wider market and thus become more competitive to their rivals. The whole system in E-Music Shop is divided into three main modules which are:

- Customer module
- Administrator module
- General module

The customer module would allow customers to browse through the various CDs which will be displayed on the online catalogue. It would provide useful tools that would enable the customers to make comparisons on the prices and features of each product. Besides that, customers can register to become a member of the E-Music Shop which will enable them to order CDs online and also access various information such as latest news or events in the music world, artist information and song chart. This module also provides secure on-line payment and transmission of data.