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JUDUL: **ONLINE INVENTORY SYSTEM**

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^ Tesis dimaksudkan sebagai Laporan Projek Sarjana Muda (PSM)

ONLINE INVENTORY SYSTEM

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

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2005

ADMISSION

I admitted that this project title name of
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STUDENT : _____ Date : 22/02/2005

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SUPERVISOR : _____ Date : 22/2/2005

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DEDICATION

To my God, Allah SWT

To my greatest idol, Rasulullah SAW

To my beloved parents, Wan Abdillah Bin Jusoh and Wan Mazidah Binti Embong

To my brothers and sisters

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ABSTRACT

Nowadays, Internet becomes an important relationship medium in information technology filed and a network of changing the method of human communication, and people environments interaction. In addition, information system that using Internet have been upgraded all media and device. Now, Internet makes somebody easy and fast to reach all information. Hence, by using this technology, one project will be completely developed to overcome problems and to replace the manual system. The administrator, staff and lecturer in the KUTKM campus can use this Online Inventory System as known as web-based application in Internet environments. This system manages all data related with all user information and stored in a database that has been developed using the Microsoft Access. Meanwhile, the Online Inventory System has developed use the waterfall model as a project life cycle and guidance to every phase in project developing process. The online system should be solved any problem such as data loss and work not be done. The direct new data key in the system will be control and stabilized in the updating process at the same time. Finally, Online Inventory System can be managed faster, constantly and technologically.

ABSTRAK

Pada zaman sekarang, penggunaan Internet adalah penting di dalam perhubungan teknologi maklumat dan perubahan komunikasi di antara manusia kepada kaedah rangkaian. Pada masa yang sama, penggunaan sistem maklumat hendaklah disertakan juga dengan perkakasan yang terkini. Sekarang penggunaan Internet dapat memudahkan seseorang didalam mencapai pelbagai maklumat. Oleh itu, sebuah projek telah di bangunkan untuk menyelesaikan masalah dan juga membawa perubahan pada sistem manual sediaada. Pentadbir sistem, pekerja, dan pensyarah di kampus KUTKM dapat menggunakan *Online Inventory System* yang dikenali juga sebagai aplikasi berasaskan web dengan persekitaran Internet. Sistem ini dapat menguruskan semua data yang berkaitan dengan semua pengguna maklumat dan menyimpannya didalam sebuah pangkalan data yang dibangunkan menggunakan *Microsoft Access*. Oleh yang demikian, *Online Inventory System* telah dibangunkan dengan menggunakan model air terjun yang juga dikenali sebagai kitaran hayat projek dan juga panduan didalam setiap fasa pembangunan. Sistem didalam talian ini dapat menyelesaikan pelbagai masalah seperti kehilangan data dan kerja yang tertangguh. Data yang baru di masukkan akan dikemaskini serta-merta. Akhir sekali, *Online Inventory System* dapat menguruskan dengan cepat, konsisten dan berteknologi.

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LIST OF ACRONYM

ACRONYM	FULL WORD
ASP	Active Server Page
AI	Artificial Intelligence
CC	Computer Center
DB	Database
DBMS	Database Management System
DGMS	Dialog Generation Management System
GB	Giga Byte
IE	Internet Explorer
IES	Inventory Executive System
IT	Information Technology
KUTKM	Kolej Universiti Teknikal Kebangsaan Malaysia
MIS	Management Information System
MB	Mega Byte
ONIS	Online Inventory System
PSM	Projek Sarjana Muda
PWS	Personal Web Server
RAM	Random Access Memory
VB	Visual Basic

CHAPTER I
INTRODUCTION

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INTRODUCTION

1.1 Project Introduction

In era of Information and Communication Technology, a lot of systems have been created to run completely. The Online Inventory System is system will be developing in the future. In the organization are still using the manual system with using a lot of paper. The system can help the operation process in organization management be systematic and efficient. This system has been run as a web-based application.

The Online Inventory System is able to give fast and easy services to users. Using with the system, it is able in order to get all of user, administrator and authorize user command. User can be view available products information before borrowing transaction. The role of the authorized is user as a liable user makes the approve borrowing and returning item in inventory. The administrator is in change in adding, removing, updating, checking and rechecking information in the system database

1.1.1 Project Purpose and Organization

The purpose of this project is to identify problems encountered during transactions by the users and come up with the appropriate solution for the identified problems. The Online Inventory System used in this project as a web-based application. Manual inventory operation problem is encountered in manual operation and eliminates. The purpose is to computerize the system and reduce the possibility of human errors.

Another purpose is to replace manual transaction into paper less transaction Paper less environment increase the work efficiency by using the database storage instead of physical storage. Then, this system saves a lot of resources such as time, personnel and energy when lodging complains or applying for computer item. The Online Inventory System will be developed for the Computer Center of Kolej Universiti Teknikal Kebangsaan Malaysia (KUTKM). This system will be built using online transmission concept, it is related with the goal of Kolej Universiti Teknikal Kebangsaan Malaysia (KUTKM) to incorporate all system. The technology is always to be upgraded in order to give optimum performance and high quality of work. It also hopes to give an opportunity to the user to use new technologies.

1.1.2 Problem Statement

The main problem with the manual system, where the Computer Center's staff has to constantly check the entire computer item and do the inventory's sessions. This process involves redundant work where, firstly, they have go to all departments and check the item. After that, they had to fill up inventory forms. When they have finished the first stage at the departments, the staff works at the client's site, which means at the Computer Center's office has to enter the data from the form to the system in the computer as references.

After that, if a client wants to lodge complain and borrow the computer item, or they have fill up form at Computer Center. They also have to submit the form to Computer Center and wait for the result of the application. The whole process takes up too much valuable time, which cans he not use the optimum time.

Meanwhile, when the inventory's form has been filled, there is a probability of losing the form in the high rate. Usually, the technician does the checking and sometimes the process is open for human error. Otherwise, the data of the form also can be change by irresponsible individuals. The current use of tech where the staff keys-in the data in the database, they were high probability of typing error.

Finally, the Computer Center does not have the inventory system generated by the computer processing. They only have the manual systems, which involves filling in forms, and keep the forms in the files. They is not a backup data if the forms are lost or ruined.

1.1.3 Problem Solving

The Online Inventory System is able to give fast and easy service for all the users. The Online Inventory System is designed to produce results with less of effort and appropriate information's. This web-based application will help this system to be performing fast and smart transactions. In order to check an item in inventory, administrator does not need waste time by checking each department. He only has to check on the Online Inventory System database. The database can manage the system efficiently and saves because Online Inventory System uses backup system, which does not exist in the manual system. The database will be provided with the function, which can classify the incoming data automatically according to its categories. It is also equipped with security functions that only allow access to the data by the authorized user.

This web-based application system is also provided with networking function, and allows the other users from the other locations to share the data through the network or the Internet. While doing the checking, they only have to check through the online network in any locations.

1.2 Objective

To get the achievements with this project has decided several objectives as the guidelines before the project started. There are the project objectives:

i. To research and develop online transactions theory in web base application.
ii. To improve the efficiency of inventory data.
iii. To develop the database system for support the management inventory.
iv. To create linear operation web base application system.
v. To perform the request efficiently and effectively.
vi. To strive for highest technology reformation in the national market.

1.3 Scope

i. The system would offer for KUTKM Computer Center the advantages from the new technology.
ii. This system will keep the hardware product and software product data.
iii. The users of the Online Inventory System are divided into three categories. Different roles, which are administrator, authorized and common users perform different functions.

iv. The Online Inventory System has the secure environment, where each user must have a user name and his or her password. With the security system, in place all data and information be secure and protected.

v. This system cannot grab the KUTKM database.

1.4 Project Significance

The Online Inventory System will be developed for the Computer Center of Kolej Universiti Teknikal Kebangsaan Malaysia (KUTKM). This system has the following significances of the implementing purposes:

1.4.1 Availability

This system is able to use in Computer Center, of Kolej Universiti Teknikal Kebangsaan Malaysia (KUTKM). It can facilitate KUTKM in planning its annual budget with the data collected by the database regarding the use of facilities by KUTKM staff. This system suitable for use by all universities in Malaysia because it is uses the online transaction and more of advantages. This way they can be exposed in the actual world of information and communication technology.

1.4.2 Commercial Product

From the commercial aspect, these systems have a high value in software market. It is because this system well to do in universities and educational organization, government and private sector. Using this system, some organization can cut operation cost and use that money to add more products instead.

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CHAPTER II
LITERATURE REVIEW