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Portal MYKUTKM / Mohd Al Mustaza Muda.

PORTAL MYKUTKM

MOHD AL MUSTAZA BIN MUDA

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

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
KOLEJ UNIVERSITI TEKNIKAL KEBANGSAAN MALAYSIA
2004

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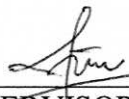

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DEDICATION

I would like to dedicate my final year project and this thesis to the lecturers who had without any hesitation and as they are filled with precious knowledge, spirit and initiative to thought me about the ICT (Information Communication Technology) knowledge and practiced me with lots of practical concept and application oriented elements. It is also my honor to appreciate and present this thesis to be continuously used, for further reference, whether by other students or for research work and presentation by KUTKM.

My parents is the other reason why I keep doing and implementing the good practices of learning and excepting any ideas to be implemented and to be used throughout my whole duration of study. Their supports have given me the courage to keep on moving although it took time to implement all the phases.

And lastly, I would like to thank for each individual and organizations that has contributed time, resources either directly or indirectly, my colleagues toward the completion of this thesis and project.

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IN THE NAME OF ALLAH, (AL MIGHTY) THE GRACIOUS, THE MOST MERCIFUL.

Thanks to God that finally I have completed the Projek Sarjana Muda II (PSM II) successfully. I would like to thanks Kolej Universiti Teknologi Kebangsaan Malaysia (KUTKM) for given me their full trust and also gave me the opportunity to improve my self throughout this project. I wanted to thank my parents for given me a support when I needed it most. Special thanks to my project supervisor, Ms Faaizah Shahbodin for her guide and attentions. Thank you for spending times to answer all my e-mail and my questions. Lastly I want to thanks everyone who helped me to complete this report and also help me throughout the achievement of this project.

Mohd Al Mustaza Bin Muda

FTMK (Interactive Media)

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ABSTRAK

Perkembangan pesat dunia teknologi maklumat telah mempengaruhi corak kehidupan manusia. Ini sejajar dengan keperluan manusia dan juga keberkesanan yang diperoleh daripada penggunaannya. Laporan projek Portal MyKUTKM ini adalah disediakan untuk Projek Sarjana Muda II (PSM II). Ia mengandungi kombinasi keseluruhan aktiviti, kajian dan progress projek yang digabungkan dalam satu laporan akhir. Laporan ini meliputi pengenalan projek, kajian literatur, perancangan dan metodologi projek, kajian analisa, rekebentuk awalan dan prototaip, serta kesimpulan bagi keseluruhan projek. Portal yang akan dibangunkan ini adalah mengenai Kolej Universiti Teknikal Kebangsaan yang berkaitan dengan perbincangan. Selain itu portal ini juga merangkumi aduan pelajar mengenai perkhidmatan yang terdapat di KUTKM. Melalui portal ini juga pengguna dapat berinteraksi secara interaktif kerana ia mengandungi semua elemen-elemen multimedia seperti teks, grafik, animasi dan lain-lain. Sasaran pengguna portal MyKUTKM adalah pelajar, staf, pensyarah dan semua yang terlibat dengan KUTKM. Projek yang dibangunkan ini adalah berasaskan *online* Dalam membangunkan portal ini, antaramuka yang akan dibina adalah lebih menarik untuk menjadikannya lebih mesra pengguna. Portal ini juga boleh dijadikan rujukan untuk mengetahui perkara-perkara yang telah dibincangkan dan aduan yang telah dibuat. Dalam membangunkan portal MyKUTKM ini, antara perisian utama yang akan digunakan ialah *coding* PHP, Java Scrip dan MySQL untuk pangkalan data.

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ABSTRACT

The vast development of information technology has influenced the way human live. This suits the human needs and also the effectiveness that results from its usage. The report of Portal MyKUTKM project is prepared for "*Projects Sarjana Muda II* " (PSM II). It contains the combination of overall activities, the research and projects progress which has been combined in one final report. These reports cover the projects methodology, research analysis, first designation and prototype, and also the conclusion for all of the project. The portal is about the Kolej Universiti Teknikal Kebangsaan Malaysia. This has a relationship with this discussion. Besides, this portal is also consisted of the student's report on services those available in KUTKM. Through this portal, users can interactively interact as it contains all of the multimedia elements like text, graphic, animation and many more. This MyKUTKM portal's user targets are students, staff, lecturers and which involve with KUTKM. Project that was developed are online bases. In developing this portal, the interface design was made interestingly as to make it more user-friendly. This portal can also be used as a guideline for achieving information about discussion and also report that was made by the user. Portal MyKUTKM was developed using special software such as PHP coding, Java Script, and MYSQL for the databases purpose.

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LIST OF ABBREVIATION

KUTKM	Kolej Universiti Teknikal Kebangsaan Malaysia
FTMK	Fakulti Teknologi Maklumat Dan Komunikasi
PSM	Projek Sarjana Muda
MS	Microsoft
CPU	Control Processing Unit
MDM	Multimedia Design Methodology
CD-ROM	Compact Disc-Read Only Memory
ICT	Information and Communication Technology
CD	Compact Disc
HEP	Hal Ehwal Pelajar
PHP	Personal Home Page
MySQL	Standard Query Language
OS	Operating System
ACD	Architecture Context Diagram
BMP	Windows Bitmap
GIF	CompuServe GIF
JPG	Joint Picture Group

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CHAPTER I

INTRODUCTION

1.0 Preamble

There are many websites and portal that has been set up for KUTKM as to help the student and users from one time to another time. Most of the previous websites were built up based on the introduction for certain units like websites for faculty and college and also portal for the learning subjects. The concept used is not only dealing with single user but with multi users.

The organization itself and also the users involved in this portal. The developed project is a portal that deals with KUTKM. This portal deals with KUTKM as it related to lectures, staff and students. It is suitable to be used by the citizens of KUTKM without considering who the user are.

The main purpose of the "Portal MyKUTKM" development is to publish and to share the current issues those related to KUTKM from all of the aspects. Besides of the current issues, it is also dealing with the problems those occur in KUTKM. The advantages and also the disadvantages of KUTKM are also available in this portal. All of the issues can be discussed thorough this portal according to the opinions from the students, staff, lecturers and also the administrators. This will tighten the relationship between the citizens of KUTKM. All of the information that related to study and administration can be conveyed through this portal.

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Each person has to make registration to be one of the members in this portal and there is no payment for it. Only the registered user can surf internet through all over this portal. This portal works as a medium of communication and exchanging information or opinions among people in KUTKM and outsiders. It is built specifically for the usage of all people in KUTKM. Without considering the status, anyone can distribute their opinions those related to and issue. The issues can be delivered by the users of the portal themselves.

In developing this project, KUTKM has been as the main reference resources. The research has involved the students, staff, security unit, lecturers and also the administration. This is for getting information on what is happening around in KUTKM. As we can see, there are lot of activities that are not been realized by students. Many ideas and opinions can be conveyed in fully confidence. All of the ideas or opinions can be conveyed online and everybody that using the portal will get the information. Compared to the previous days, the ideas or opinions were only limited to the suggestion box.

The target of this "Portal MyKUTKM" is to have a website that can participate every person in KUTKM in discussing or conveying issues in KUTKM based on the web site. Multimedia Design Methodology is the methodology that is used in developing this "Portal MyKUTKM".

1.2 Problem Statements

Before this, there were various ways been used to install data and information. Nevertheless, there were many problem acquired such as losing and installing the wrong data.Previously, any comments, report or information from student about KUTKM had been written on a piece of paper and into the suggestion box. This had caused the students to go to the "*Hal Ehwal Pelajar*" (HEP) office. It was only to put the student comments or opinions into the suggestion box as there is

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only one suggestion box available in KUTKM. This had caused a difficulty to students to voice out any opinions as the student did not realized the existence of the suggestion box.

Beside that, students did not know where to voice out the identified problems. As for dissatisfaction of services in KUTKM, it is available lots in KUTKM area. Most of the students dissatisfied about it as it can cause an accident. Not many students know about the previous comment, report or opinions that have been done by the previous students.

This has led to the redundant thing or maybe the never done thing. The administration did not print out the comment, report and opinion. As the result, the set up of on-line "Portal MyKUTKM" could be as a problem solver. This portal will help students to make any report or suggestion about KUTKM. Everyone can share the report or suggestion online.

1.3 Objective

As to achieve the target and the purpose of this project, several objectives have been decided to be the guidance in developing the portal. The followings are the objectives:

i. To introduce KUTKM to the public.
ii. To highlight the current issues related to KUTKM, the advantages and disadvantages of KUTKM and also the services provided.
iii. To enable students to give their opinions, suggestions and ideas easily through the online and it can be reached by all of the KUTKM citizens.
iv. To distribute the latest information of learning, sport and administration.
v. To ease the users on reaching the information about KUTKM.

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vi. To study the theory of web designing development by using a structured method.

1.4 Scopes

i. This portal can be used by all KUTKM users that registered in such as students, lecturers and staff.
ii. Only the registered students can voice out any opinions through this portal and can own private profiles.
iii. The registered users can surf the "Portal MyKUTKM" thoroughly.
iv. This portal has been developed based on the previous studied portal.
v. This portal has been developed by using HTML, OHO, Java Scrip & MySQL.

1.5 Contribution

The main importance of setting up this portal is to introduce KUTKM to Malaysian people and from other countries as well. KUTKM is the first technical university which is using 70% of hand-on in learning process. Moreover, users can elaborate their suggestion or opinions about KUTKM, current issues of KUTKM, the advantages and disadvantages in KUTKM and services been offered. With this, each person in KUTKM will get the information of what is happening in KUTKM even if the persons are for away from the college. This portal will make things become easier and effective. Before this, most of the people in KUTKM did not know where to voice out any opinions, idea, suggestion and also report. Through this portal, everything can be conveyed easily and effectively.

Nevertheless, all of the information related to KUTKM can be conveyed through this portal. The information is about study, sport and administration.

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Students will get all of the information. It can be done without searching for it on the notice board. It is deniable that for, this portal is helping all of the people in KUTKM a lot. It also helps in updating the user mind as they all of the information about KUTKM can be achieve easily and correctly compared to the previous time.

1.6 Conclusion

The introduction of the project is the important thing needed in developing a project as it defining about the project itself. Problem defining and objective of the project are also cannot be put aside as it help to set up the project perfectly. If the project does not have any objective, this will lead to the difficulty of developed without considering the right needs or in other word without objective and scope. The project surely cannot be developed perfectly as there will be many problems occur. Therefore, before developing a project, one should know the introduction and also the objective of the project.

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CHAPTER II

LITERATURE REVIEW

2.1 Introduction

In producing this portal, researching and controlling on the available portal and web site have been done. It is to ensure that the new portal will have a better feature than the previous portal. Research has been done to build up the "Portal MyKutkm" which is suitable and applicable to be used in an organization like KUTKM. The information resources must be set as a priority before such a project could be developed.

This is to ensure that each problem could be stilted easily. Lots of researches have been done on a few portal sites in internet. Nevertheless, most of the portals have only focused on information category and in retesting features in the portal. Nowadays, a portal like MyKUTKM is still not available in KUTKM. Therefore, a few researches have been done on the portal and web sites that are functioning almost likely with "Portal MyKUTKM".

The researches are to ensure that the new portal is fulfilled with the advantages in various aspects compared to the other previous portal. There are another method has been used to rather the information in developing this has portal. It is a discussion and interview method towards a few students and staff in KUTKM. Interview has helped a lot in gathering the information about the portal content

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features those are needed by most of the students. By this research, the objective of this portal could be reached successfully.

2.2 Case Research

There are several methods to work on "Portal MyKUTKM" project in this literature research. This is as to gather the information about this portal. The methods are as the followings.

2.2.1 Web site And Internet

The beginning stage a research is done on the online portal and web site. This is to study the available websites and portals in Malaysia. A few research and study have been done on the previous web sites in other universities and also KUTKM as to gather the information and problem analysis.

Therefore, comparison among web-sites and the portals could be considered as reference to identify the problem and way to prevent during the designation and implementation phase. Internet is the biggest computer range in the world. It links the broad computer range through out the world to enable the two-ways communication and exchanging the information freely.

Thus, internet is the communication between the ranges which connects each other. It cannot be assumed as similar to the computer but it concentrates on the communication between individual and the whole world. As a conclusion, internet enables each person to reach the information in communication range through the internet. Nevertheless, on on-lining based project will help the users to communicate and reach the related information.

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2.2.2 Discussion And Interview

Discussion and interview are among the methods in case research. A few discussion and interview have been done with the students and KUTKM staff. Its main purpose is to gather information related to KUTKM in various aspects such as, students, personals, KUTKM management's method and activities held in KUTKM.

2.2.3 Background Research

This project is held in KUTKM by gathering all of the information about management, academic, news, students, staff and lecturers in KUTKM. To ensure the successful of this project, the information from KUTKM is the most important as to settle down the problems in this project. Thus, the background research has involved every single level in KUTKM.

2.2.4 The Research On Software

As to ensure the development process of the portal runs smoothly, a research on software must be done. The portal development process needs software that totally could help in solving any problem that occurs.

2.2.5 Safety Research

When a web application is put in a range, this will expose it to an illegal reach. In some access cases, the user should have permission with the internal password. In another case, the external users try to reach for the bad purpose. Therefore, a few safety techniques should be done to guarantee the portal safety.

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2.2.6 MyUITM Website

MyUITM web site has been sated up in MARA Technology Institution University. It has been referred to the (http://www.myuitm.com) web site. It uses a broad scope as it combines all of the things in the web. The combination is not that appropriate as it looks less interesting and well organized. The colors used and pictures arrangement and banners are suitable as it showed the real environment of UITM. Users have to use the downward scroll in order to view the information. The usage of "*Photo e-kawan*" and "*Info Artikel &Download*" are more suitable be used on the other pages as to make it looks neat and interesting. The usage of broad "*Selamat Datang*" space is appropriate although it waste lost of space in this web site. The lastly, the display function of current forum that is used by the users is suitable to the web site as it related to the current discussion. *(Please refer figure 2.1 MyUITM site and Questionnaire Form MyUITM site in appendix V).*

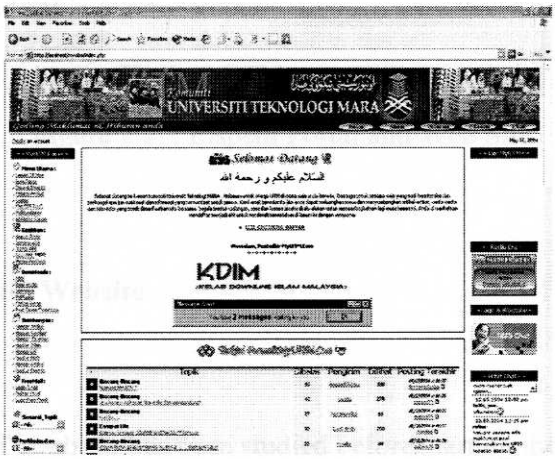

Figure 2.1 : MyUITM Site

2.2.7 Eispem Portal And Web Site

This portal and the web site is a web site that available in of the IPTA in Malaysia, the UPM. It has been set up by using almost 100% asp. The shape of

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interface is attractive. The pages and the shape of the portal are always change from time to the other time. The usage of same menu on the side, below and above the portal is suitable as it makes the interface more user-friendly. The usage of suitable color suits the portal itself and it does not use a lot of color. This portal and website have been referred and studied on (http://www.einspem.upm.edu.my). *(Please refer figure 2.2 Eispem Portal and Web Site and Questionnaire Form Eispem Portal And Web Site in appendix V).*

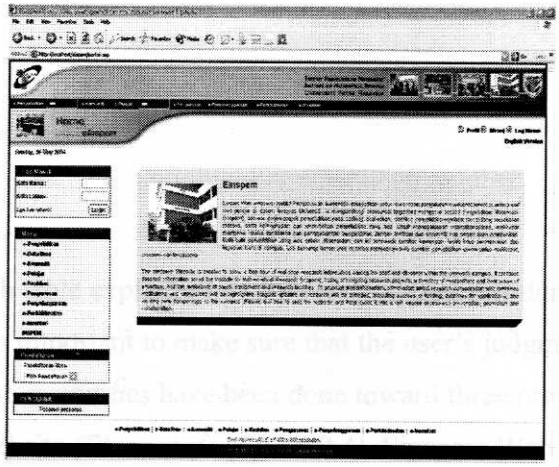

Figure 2.2. : Eispem Portal and Web Site

2.2.8 "TokeiKedai" Website

"TokeiKedai" website has been studied before starting the project development. This website seems not well organized on the top of it and not interesting. The graphic used is simple but quite interesting and the font used to write "*TokeiKedai*" is very creative. The usage of balance color seems simple and interesting. It is not that appropriate to use the "*Sponsered By*", "*Kedai Mobile*" and "Online Panel" in menu on the top side. This website is easy to be used although "*Menu Kedai*" was placed on the bellow side of the interface. This portal and website have been referred and studied on (http://www.tokeikedai.net.my). *(Please refer figure 2.3 TokeiKedai Website and Questionnaire Form in appendix V).*

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