**" I confess that I have read this report and for my opinion I think this report is sufficed in partial fulfillment of requirement for the Bachelor Degree Of Electronic Engineering" (Industrial Electronic)**

Signature : .....

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Date : 28/03/05

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# DYNAMIC WEB-BASED DATABASE

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**I confess this report is all my own work except the certain passage that I have clarified each of their source**

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**DEDICATION**

My most sincere thanks and gratitude to:

My mother & family
Encik Nurul Fajar Bin Abdul Manap
All my Friend

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**ACKNOWLEDGEMENT**

I would like to extend my gratitude and heartfelt thanks to KUTKM , and to the FKEKK, for giving me the opportunity to do my Project Sarjana Muda's research. My heartiest appreciation to the "DYNAMIC WEB-BASED DATABASE" , for sharing with me the details of Information functions and operations process. I am deeply touched by the support and encouragement to do my research from Encik Nurul Fajar, (Supervisor ). Second thank to mother and my family to Inca rage this project can be done in exactest . Finally this appreciation and thanks for the guidance of my Friend, Family, Staff FKEKK They are helpful and supportive in providing me the information needed to do my research. I feel lucky to have such a supervisor who is kind, helpful and understanding. This motivates me to complete my research despite the difficulty that I am experiencing.

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## ABSTRACT

The "DYNAMIC WEB-BASED DATABASE" is developed specially for BENE and student FKEKK to contributed there afford .This Portal is the solution for problems faced by student , which are improper classification of data from user , non-standard format for display and exchange transaction data to another . Developing portal are based on the objectives of, to develop a database for the incoming data, to develop data analysis tool and to develop web application system for user requirements. As a result, portal is able to reduce drastically the time to produce the leakage information flow from student and admin the idea is to give direct information in consecutively. This contributes to be able to increase the performance and quality of portal, to increase the performance of data transfer, and to assure the security of the incoming data from the administrator. The development of **"DYNAMIC WEB-BASED DATABASE"** utilized PHP, MySQL and Apache Client-Server. To create a portal that will become to solve a problem and become reference for student multimedia or user.

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# ASTRAK

Projek ini adalah bertujuan untuk membina sebuah pengkalan data dinamik bagi pengguna student BENE dan FKEKK untuk menyampaikan maklumat terkini sebagai tempat pertukaran maklumat seperti forum contohnya. Fungsi sebenar aplikasi ini adalah untuk mempermudahkan pengguna membuat urusan dengan pentabiran dalam mencari maklumat serta penggunaan yang pelbagai bagi mnadapatkan informasi yang disediakan . Berfungsi sebagai tempat penyimpanan maklumat oleh pengguna dalam tujuan pengaksesan data dan '*Oracle*' kepada sistem pengkalan data "MYsql". Sistem pengkalan data digunakan disebabkan faktor kemudahan pencarian maklumat (*information retrieval*) oleh pelajar. Kelebihan pengkalan data adalah ianya dapat mempermudahkan perjalanan segala infomasi berjalan lebih lancar dengan konsep perkongsian maklumat secara berterusan.. Laman Web Dinamik Database ini menggunakan teknologi PHP, MYSQL dan Apache Client-Server, Harapan jangkaan keluaran dari hasil projek ini adalah mendapat respon keluaran yang baik untuk mencapai penggunaan yang maksimum dalam menyelesaikan masalah ke sifar.

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# CONTENTS


**PROJECT TITLE** i

**TESIS APPROVAL STATUS FORM** ii

**DEDICATION** iii

**ACKNOWLEDGEMENTS** iv

**ABSTRACT** v

**ASTRAK** vi

**TABLE OF CONTENTS** vii

**LIST OF TABLE** xii

**LIST OF FIGURES** xiii

**INTRODUCTION PROJECT OVERVIEW**

1.1 Project Overview 1

1.2 Problem Statement 2

1.3 Project Methodology 3

1.4 Project Objective 4

1.5 Scope Project 5

1.6 Project Significant 6

1.7 Conclusion discussion 7

**LITERATURE REVIEW**

2.1 Introduction 7

2.2 Background coding 10

2.3 Case Study 11

2.3.1 Portal 12

2.3.2 Colour Usage 15


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2.3.3 Layout Arrangements and Interface 16
2.3.4 Functionality of the Portal 16
2.3.5 Themes of the portal 17
2.4 Literature Research Summary 18

**PROJECT METHODOLOGY**

3. Planning 20
3.1 Introduction 20
3.1.1 Project Planning 21
3.1.1.1 portal design 21
3.1.1.2 web database 22
3.2 Project Methodology 23
3.2.1 Phase and activities 24
3.3 System design 21
3.4 Testing 21
3.5 Implement 22
3.6 Methodology Justification 22
3.7 Hardware and software Requirement 23
3.7.1 Software requirement 23
3.7.2 Software requirement to development 24
3.7.2.1 PHP 24
3.7.2.2 MYsql 24
3.7.2.3 Dreamweaver MX 26
3.7.2.4 Adobe Photoshope 26
3.7.2.5 Java 27
3.7.3 Hard / firm requirement 27
3.7.3.1 implementation deployment requirement 28
3.7.3.2 external interface requirement 28
3.7.3.3 performance requirement 34
3.8 Problem Solving suggestion 28

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3.9 Activities Planning 29
3.10 Conclusion 29

**RESEARCH ANALYSIS**

4.1 Introduction 30
4.2 Business Research 31
4.2.1 Organization 31
4.3 Problem Analysis 31
4.3.1 Interface design 32
4.3.1 Web server 32
4.4 Requirement Analysis 32
4.5 Connection setup 33
4.6 Technical analysis's PHP command and control 35
4.6.1 Front Interface Dynamic database HTML 36
4.6.2 PHP command behavior for Login 36
4.6.3 MYSql activity where the storage Data Query 37
4.6.4 When error log PHP command behavior for Registration 38
4.6.5 PHP command behavior for Registration 39
4.6.6 Interface Design 40
4.6.7 Description 40
4.7 Conclusion 44

**PROTOTYPING AND DESIGN**

5.1 Introduction 45
5.2 Draw Data/Pilot Studies 46
5.3 Application Processing 46
5.4 System Design 46
5.5 Portal Architecture 48

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5.5.4.1 Administration Model 49
5.5.4.2 General Module 49
5.5.4.3 Site map 50
5.5.4.3.1 Site Map 50
5.5.4.1 Portal Architecture for User Module 51
5.5.4.2 Portal Architecture for Administrator Module 51

5.6 Portal Design Planning 52
5.7 Data Flow Diagram 52
5.8 Data Flow diagram symbol 53
5.8.2 Zero level data flow diagram 53
5.8.2 Zero Level data flow diagram (Administration) 53
5.8.2.1 Discretion Data Flow Diagram 54

5.9 Introduction Interface Design 55
5.9.1 E-BENE Community Portal User Interface Design 55
5.9.2 The Advantages of Storyboard 57
5.10 Prototype and Design Summary 58

**IMPLEMENTATION**

6.1 Introduction 59
6.2 Design and functional implementation for General Module 60
6.3 Process of Integration 62
6.4 Implementation Summary 63

**TESTING**

7.1 Introduction 66
7.2 Testing Plan 66
7.2.1 testing organization 67
7.2.2 test schedule 67
7.3 Test Strategy 68

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7.3.1 Classes of test 68

7.3.1.1 68

7.4 Test Design. 69

7.4.1 testing description 69

7.4.2 test case result 70

7.5 Testing Summary. 70

**SUGGESTION / CONCLUSION**

Introduction 72

Proposition for improvement 73

**REFFRENCE**

Book / Magazine 74

**APPENDIX**

Storyboard 77

Gantt Chart for PSM I 82

Gantt Chart For PSM II 84

Setup Link Web Roots 86

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# TABLE

**LIST OF TABLE** **Page**

**Table 3.1** Software Requirements for Dynamic Database 23

**Table 3.2** Hardware that required in Dynamic Web Data Base development 27

**Table 4.3** Implementation or the Deployment Requirement in Dynamic Web Data Base 28

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# FIGURES


| LIST OF FIGURES | | PAGE |
|---|---|---|
| **Figure 3.1** | Iterative Models | 20 |
| **Figure 4.1** | Layout for web page Dynamic web base database | 35 |
| **Figure 4.2** | Script HTML,CSS, PHP use in Dynamic web base database | 36 |
| **Figure 4.3** | Command behavior Login | 37 |
| **Figure 4.4** | Show the characteristic function configuration the page in database MYSQL | 38 |
| **Figure 4.5** | Login and register user behind command PHP system | 38 |
| **Figure 4.6** | Define connection interface where input will use in PHP System | 39 |
| **Figure 4.7** | Coding Interface | 39 |
| **Figure 4.8** | Interface skin | 40 |
| **Figure 4.9** | Script command connection to MYSQL and Interface | 40 |
| **Figure 4.10** | Show specific query in put identifier by database and interface | 41 |
| **Figure 4.11** | Staff login Not Successful | 42 |
| **Figure 4.12** | Staff login Successful | 42 |
| **Figure 4.13** | Enable sub page after login success | 43 |


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| | | |
|---|---|---|
| **Figure 5.1** | The diagram below outlines how the information is passed from the server to the browser | 47 |
| **Figure 5.2** | Portal Architecture For The E- Dynamic Web –Based Database | 50 |
| **Figure 5.3** | Portal Flow For The E- Dynamic Web –Based Database | 50 |
| **Figure 5.4** | Portal Architecture for User Module Dynamic Web –Based Database | 51 |
| **Figure 5.5** | Portal Architecture for General Module | 51 |
| **Figure 5.6** | E-Dynamic Web –Based Database | 53 |
| | data flow diagram (DFD) | |
| **Figure 5.8** | Zero Level Data Flow Diagram (Administrator) | 53 |
| **Figure 5.7** | User sign-up and Data flow Diagram (DFD) | 55 |


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# CHAPTER 1

# INTRODUCTION

## 1.0 Project Overview

Typically, the word portal has come to mean something that big internet sites with lots of information use to provide an entrance or doorway to the Internet when this is not exactly true. A portal site has nothing to do with how much exchange you have or how well known your site is. A portal is simply a web site that offers a doorway into a world of information "ABOUT" a specific thing. It doesn't have to be about the internet. It can just as easily, (in fact more easily), be a doorway into a specific topic that you are interested in . This project signification term community how to exchange information people with common interests gather to share experiences, ask questions, or collaborate. As they are present in the same locality, members can meet easily to learn from each other by sharing their explicit knowledge and revealing information about their successes and failures. Also people who share a common interest, such as members of a profession, can join to form a wider community. Such communities have a deeper reservoir of knowledge, but they meet only occasionally at periodic events like conferences and seminars which serve as forums for exchanging knowledge and ideas.

It more about a system of integrated programs designed to make it easier for a user to find information. Typically these programs will include things like free e-mail, chats, forums, classified ads and most importantly a search engine. The

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purpose of all these integrated programs is to provide convenience, and a sense of *community* to the user, and to help make the user feel more comfortable about using the portal for the purpose of beginning their journey from "there" as opposed to trying to go out all over the internet and find all the pieces of the puzzles for themselves. So in this sense the portal is offering a valuable time-saving service. So tribute from professional communities offer obvious advantages from impact some user to get interests in new scope . Members benefit from asking questions and sharing their explicit knowledge with one another. This knowledge sharing provides a more effective way of learning because it avoids duplicating the current or past efforts of other members. Similarly, e-BENE dynamic web-based database provide the advantage of connecting geographically disparate groups. These communities dynamic web-based use Web technology as a vehicle for disseminating knowledge and information more quickly and inexpensively as well as for global communication and collaboration. The project is developed for BENE students and contribute to who want activities student KUTKM , where student BENE can find information for related multimedia such as exhibition work of art, forum where students or another faculties students can discuss about subject or project, shout box, SMS from web and tutorial submitted by administration or by student themselves which will be filtered first by the admin.

## 1.1 Problem Statement

While there are many more reasons that a system of integrated programs, allowing you to offer a "portal" as opposed to a web site, are there for you to take advantage of. But in the real situation there are different between official and non official web example FKEKK (www.**kutkm**.edu.my/**fkekk**/default.htm) portal was a sample of community web and e-learning, and the portal is be used as a reference for students and lecturers to communicate and deliver information to students such as notes, assignments and so on. The portal also contains a

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forum that used to discuss about educational and related topics. This portal try produce more accessibility then FKEKK but give more benefit rather than other WEB page, included the entire department FKEKK. The E-BENE community web dynamic web-based database is different from E-FKEKK portal because it is developed for FKEKK students and there as limitation characteristic . It is possess of a multimedia portal which consist of animated interfaces that combine with PHP and flash that could attract the student. The community portal also will provide a shout box to only a registered account. The live shout box will support emoticons which will be developed using PHP platform and it also shows online users and other users can be notify to it. Online users can have an avatar to represent their user name. The advantages of the portal is that students can show-off their art work in this e-multimedia community and can also using SMS after log-in to the portal. In technology of portal there still grow with many new thing concept and information with no bounder limitation site. So it make more acceptable site for easier input rather than other conceptacle web system.

## 1.2 Project Methodology

This project using way a Waterfall model easier to understand a follow and more smart time line then other method . The Waterfall Model which considered the process as progressing through a series of stages from requirement analysis through specification, design, coding, testing to documentation and maintenance. Each stage was completed before the next was started. The absence of any significant iteration between the different stages has had led to the abandonment of this model.

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## 1.3 Project Objective

For the purpose of developing and completing this project, some objectives have been gathered and will be a guideline during the structuring of the project itself. The objectives include:

1.3.1 A platform for BENE students to communicate over internet using web based applications. For example BENE students can exchange or allowing them to share useful information and knowledge beyond national borders.

1.3.2 The admin will provide tutorials such as Photoshop, 3Ds Max, Flash, illustrator and Dreamweaver but some try make it more interesting by putting interactive feature from PSM project 2005. Users can also submit their own tutorials into the e-BENE community which will be filtered first by the admin

1.3.3 To create a portal that will become to solve a problem and become reference for student multimedia or user.

## 1.4 Project Scope

Project management is the planning, scheduling, and controlling of project activities to achieve performance, ability and service objectives. Managing web projects is choosing to take control and complete them with the least un productive information transfer protocol . The E-BENE community will be developed for multimedia students and with a purpose of communication, involvement, activities and participation that related to multimedia over internet. Hope that the portal will help BENE students to be more creative and innovative throughout the activities, competition, tutorial and forums provide in the portal. The portal also will be provided with live shout box that will auto-refresh upon

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certain period, instant messaging that required user to be online, forum for discussion, tutorial submitted by administration and students, and periodically event such as digital art competition and news. and this web use skill and experience to achieve successful projects for user. Project scope management is to processes all required to ensure that all the work information, data and service will be successfully. It consists of initiation, scope planning, scope definition, scope verification, and scope change control.

## 1.5 Project Significant

A project is a temporary endeavor undertaken to create a unique service. Every project has a definite beginning and definite end. And each product or service that is created is different in some distinguishing way from all similar products or services. There are many different types of projects depending on the scope of activities. Some examples:

1.5.1 Developing a new system or service,

1.5.2 Designing computer software, such as a materials management (inventory) system, a claim processing system, or an accounting system.

This project is to provide the solutions to the problems faced by E - FKEKK portal currently. By aligning the goals which had been set for the project to be achieved, it helps the user to solve their problems with the appropriate ways that would not affect the user interest. It means the new portal would helps to solve the problems, and at the same time the portal would be protected in a more secure way. The new portal will be designed with user friendly interface to be more friendly appearance and behaviors with easy button and it make user or BENE students KUTKM can reach their needed information at their finger tips. In this portal user can send his art

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work to community for exhibitions. In E-BENE community have simple language to secure login script using PHP. User can sign up and there information info is automatically being saved in a database the portal have 2 level admin, member and guest.

This is the most important part of any portal. The search engine. I believe it to be the best available on the net. It has an adult filtering feature. It allows to adjust the relevancy the way you want and its steel upgrade by the time.

## 1.6 Conclusion and discussion

From abbreviation impact PSM , finding the formula to develop web database it depend to:

### 1.6.1 To Develop A Database For The Incoming Data

The incoming data from the head quarter can be stored automatically into the database. The database will be provided with the classification function, which can classify the incoming data automatically according to its categories. It is also provided with the security function for accessing the data by the authorize user.

### 1.6.2 To Develop Data Analysis Tool

In order to give an accurate result for report generating, a new tool will be adapted in this system as an additional function in replacing the current method. This new tool will have the feature of visual analysis input , where each of the data represents one type of analysis that is essential to the user.

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### 1.6.3 To Develop Web Application System For User Requirement

The function of the web application system is to capture the incoming data, to process the data and to produce an analyzed data. The data can be in the format of report, datasheet, electronic form, graph or chart. Web application system also has the networking function, which allows users from other location to share the data through the network or the Internet. This project centers on PORTAL that is responsible to maintain BENE equipments, to monitor USER and to produce report for other department to use it for analysis for exchange data from other user . The focus of this project will be on processing data, classifying data and analyzing data in information transfer exchange to produce the final report.

This projects concentrates on the incoming data from the user BENE only. The two importance of this incoming data are the need to evaluate the performance and the quality of work of the state BENE , and to achieve the purpose of this project. The analysis will cover from the downloading of the incoming data until the end.

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# CHAPTER 2

# LITERATURE REVIEW

## 2.1 Introduction

Web portals are the next evolution in Internet services (e.g., CompuServe, MSN, AOL) in that they provide a more robust one-point access to a variety of content and core services, and ideally offer a single sign-on point. They are designed to give users a managed online experience, and are particularly helpful to new Web users as a start and return point for venturing online. The content is dynamically managed through databases, application windows, and sometimes cookies. Portals often include calendars and to-do lists, discussion groups, announcements and reports, searches, email and address books, access to news, weather, maps, and shopping, as well as old-fashioned bookmarks.[4]

Web portals often organize information into channels, which are customizable page containers where specific information or an application appears. Channels make it easy to locate the information that interests users by categorizing content. But Web portals are more than just a page of hyperlinks, and they offer advantages over home pages because they are customizable and personalize able, and therefore capable of offering user-specific views. For example, a university could offer a Web portal and have customized, specific content available to the user based on roles, such as faculty, student, staff, administration, etc. Roles help the portal determine user privileges for reading, searching, updating, adding channels, and personalizing content. Then, the portal uses the information stored in the user roles to offer the user appropriate content and service choices. Individual users can create further, more specific content organization by selecting from the personalized material and services, thus making the portal work the way they do. [4]

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Information to develop the project was obtained from internet and website of e-BENE community. Other essential for the project is obtained from websites related to e-BENE community project, design principles and development. Most of the researches are about e-BENE community portal design and applications. The research is concern about user acceptance and assessment to e-BENE community portal design. The research will extend the design principles to address evolving layout, color and interface that will provide a more friendly appearance and behavior. The layout to create balanced or dynamic layouts of the portal depending on the mood of the user. Balance gives a feeling of authority, solidity and permanence. Research and data collection has the same importance and in fact it can be seen as the most practical method in literature review to gather various type of information needed for the project. Elements for the portal and the project can be found from research are done. Practically, there are some theories that will be used inside the developing the web application process of the order to allow research findings to be implemented. This by the end will conclude in creating a portal that function perfectly and automatically compose a good research finding for future use. Below are some explanations on the terms and comparison with another portal that will be implemented on the e-BENE community project.[8]

## 2.2 Background Coding

There are explanations about Hypertext Preprocessor (PHP), the web development language that will be used throughout the development of the portal itself. PHP is the web development language written by and for web developers. The product was originally named Personal Home Page Tools. PHP is a server side scripting language, which can be embedded in HTML or used as standalone binary. Proprietary products in this niche are Microsoft's Active Server Pages, Macromedia's Cold Fusion and Sun's Java Server Pages. Some developer used to call PHP 'the open source ASP', because its functionality is similar to that Microsoft product and concept. PHP is an official module of apache HTTP Server, the free web server. This means that the PHP scripting engine can be built into the web server itself, leading to faster

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