

Online Student Advisory System

By

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Dissertation submitted in partial fulfillment of
the requirements for the
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CERTIFICATION OF APPROVAL

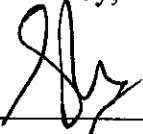
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Information Technology Programme
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Approved by,



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CERTIFICATION OF ORIGINALITY

This is to certify that I am responsible for the work submitted in this project, that the original work is my own except as specified in the references and acknowledgements, and that the original work contained herein have not been undertaken or done by unspecified sources or persons.

NORFAZILA HASHIM

ABSTRACT

The advancement of technology provides massive benefit to human beings. With the aid of technology, many things that were lately thought impossible are now made possible such as internet. This project related to the internet application, is called *Online Student Advisory System*. Currently in most university is using traditional or manual student advisory process and procedure which hold responsible to be tedious and time consuming. Alternatively there is rising trend in implementing online student advisory system that potentially better. The goal of this project is to come out with more efficient and effective student advisory system. Along the way, few objectives and scope of study have been set up which are to provide SMS alert system, enable user to track the activities performed, allow messaging and submitting report online. The project should minimize thus saving energy and time directed by all personnel involves in this advisory system in order to be more effective. The development of this project will follow Rapid Application Development (RAD) methodology which consists of four phases; Requirements and Planning, User Design, Construction and Cutover phase. Implementation and accomplishment of this project can positively be stepping-stone toward development of actual Online Student Advisory System in most university. Importance finding of this project is level of response and acceptance of user toward the development of online student advisory system.

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CHAPTER 1

INTRODUCTION

1.1 Background of Study

Students have traditionally been encouraged to look to teachers or lecturers for guidance. Indeed, in school, college or university, mentoring often occurred through teachers or lecturer handpicking selected student and guides them for enhancing their performance and self confidence.

Mentoring, by definition is a process of forming a relationship between a more experienced, seasoned and wiser person who helps a less experienced person develop in some specified capacity. It is about guiding and clarifying, and offering opinions, advice and referral contacts. Numerous studies have concluded that mentoring relationships are a significant factor in succession planning, skill and career development.

The advancement of technology provides massive benefit to human beings. People use technology to improve their ability to do work. Technology such as internet is everywhere and can make life easier and better. Through technology, people communicate better. Technology allows people to make more and better products. Same as mentoring, it will better through the use of technology. It is better to make it online in order to develop more effective mentoring system to all personnel involve.

1.2 Problem Statement

Currently in most university is using manual mentoring system which mostly called student advisory system. The system basically is been implemented to guide the foundation and first year students and also students that are under probation and, under probation and warning. This system is a little bit tedious and time consuming. Using this system, students are encouraged to always meet their advisor discussing their problem especially problem in academic. The advisor needs to know the academic performance and progress of their students. Other than that, the advisor needs to submit report manually to Academic Centre. The Academic Centre always faces difficulty in tracking performance and activities perform of the students. Also, most lecturers make Academic Centre as a middleman by complaining about the student's performance to them because they do not know whose their advisor is. This would basically cause an ineffectiveness of the system itself.

1.2.1 Problem Identification

Some of the problems that have been identified based on UTP Traditional Student Advisory System are:

- 1) Student will show little awareness of participating in a Student Advisory System.
- 2) Advisor may not have time to meet with the student regularly to discuss about the problem faces by the student.
- 3) Some student has difficulty in expressing their problem face to face with others including their advisor.
- 4) Advisor may not have time to submit report manually to Academic Centre.
- 5) Academic Centre cannot keep track the participation of the students and advisors and activities that they have performed under this system.
- 6) Academic Centre always becomes middleman between lecturer and advisor in reporting the student's performance.

Due to the reason above, author interested on making the Student Advisory System more effective by make it online. Author will concentrated in how to make the system more effective than the current or traditional system.

Several questions also need to be answered:

- How the process of match and prepare the students and advisor should be done?
- How to develop a practical and effective student advisory system?
- What's the best way to measure the effectiveness of the system?

1.2.2 Significant of the project

The main objective of this project is to develop an effective online student advisory system in a way to improve traditional student advisory system in most university. In order to improve the current system, the development will be focusing on how to make it more practical and effective.

Before the development can successfully carried out, the current Student Advisory System need to be analyze, then only the author can have better understanding on the problem faces by the current system in gaining knowledge that might help in improving the process and procedure of the traditional system.

Implementation of Online Student Advisory System can be beneficial to many universities including University Teknologi PETRONAS (UTP). This system will provide a fast and friendly alternative to the students, advisor and Academic Centre staff that involve in the advisory system.

This online system aims at helping many universities in revolutionize traditional student advisory system, which can be proved be tedious and time-consuming. Moreover, the system will help reduce the opportunity cost, so affected parties such as advisor can channel the resource free to other meaningful work.

1.3 Objectives of the Project

The objectives of this project are:

- 1) To implement a tool to facilitate the Student Advisory System that have been implemented in university by tracking the activities perform under the system.
- 2) To create an effective system by providing short message (SMS) alert to the user.
- 3) To create an effective system by allowing submitting report and message online.
- 4) To create a good and reliable design system by applying a well known database management system and programming language.

1.4 Scope of Study

1.4.1 Online System

In this project, author will come out with the online system as the output. The online system which is web based application will be developing using Visual Studio.Net with ASP.Net programming language. The main users of the system are Academic Centre staff, advisors and students. Thus, the system should come out with three different interfaces for these three main users. The online system will provide basic information to user about what the Student Advisory System is all about to make them understand about the system.

The system also will enable all users to search for the selected student in order to know who their advisor is and also view others student that are under the same advisor. This will overcome the last problem that have been identified which is Academic Centre always becomes middleman between lecturer and advisor in reporting the student's performance. By knowing who are advisor of the specific student, lecturer or other staff can make complain directly to their advisor without involving the Academic Centre staff.

of committees. Thus, the system should be able to

For Academic Centre, the system will provide an access to register for new advisors or students and delete the registered students or advisors. The system also will enable them to view the detail of registered advisor along with their students. The registration of the advisor should be done first before the registration of the students. Student registrations being done by choosing from list of registered lecturers or managements staff that will be assign to them as their advisor. Both registrations is using default password. Other than that, the system should also give an access for Academic Centre to post new bulletin and delete the unwanted bulletin that have been posted. The bulletin can be posted to either all users or all advisors or all students.

The advisor will have an access to update their personal information such as their extension and email address so that it is easier for their students and Academic Centre to contact them. They will know how many students that have been assign to them and view their student's details. The students also have an access to update their profile and can view their advisor details.

1.4.2 Tracking Activities

The advisors have an authority to set up new meeting with their students and record the activities that they will perform. They can view all the meeting that they have set up including the meeting that have been done. This record will appear to their students when they login to this system, so the students will be ready to perform that activities during the meeting.

The online system will enable the staff from Academic Centre to keep track the activities perform by the advisor and their students. The staff can monitor the activities being performed during the meeting for all advisor and students after login to this system. These enable the Academic Centre to know whether the advisor and the students really participate or not in the Student Advisory System.

1.4.3 Alert System

Alert System will be set in the *Online Student Advisory System*. There are two alert system that will be embedded in this system which are short message (SMS) alert and alert in the web site itself.

Alert in the website will be providing to Academic Centre, advisor and student. For Academic Centre, there is an alert for new report being submitted by the advisor once login. The staff of an academic centre can just click to the alert link in order to view the details of the report. They also can view all of the report being submitted for all students by all advisors. The alert will disappear from Academic Centre main page once the user read the report. For advisor and student, there is an alert for new meeting that have been set up by the advisor and alert for new message being posted. Same as Academic Centre, they can just click to the alert link to view the details either for meeting or message. The alert for meeting will disappear once the date of the meeting has past. While alert for message will disappear once the user already read it.

SMS Alert will be providing just for advisor and student. An SMS will automatically send to the advisors and students once the advisor set the meeting. An SMS will be send again during the day of the meeting to notify both advisor and student about meeting of the day.

1.4.4 Online Report

The online system also will enable report to be submitted online. The form to submit the report will be providing in the system. So, every advisor will come out with standardize format of report. The advisor just need to fill in the form and click submit button. This online report will make the life of Academic Centre and advisor easier. The advisors no more need to submit the report manually to Academic Centre and no more to create the standard form of the report by themselves. The Academic Centre can view the report easier and faster because all the report was being saved in its own database.

1.4.5 Online Message

With the existence of the *Online Student Advisory System*, advisor and students can post message online. This scope can overcome the problem being identified which are advisor may not have time to meet with the student regularly to discuss about the problem faces by the student and some student has difficulty in expressing their problem face to face with others including their advisor.

With online message, the student can write down the problem they faces and waiting for their advisor to reply. The advisor also can comment about their student performance in the message. The students no more need to meet with their advisor regularly. Both student and advisor can post new subject of the message and reply for the subject that have been posted to them. Even mobile message or SMS is more effective than this online message, but still it is very useful because most advisors did not want their hand phone number to be known by their students.

CHAPTER 2

LITERATURE REVIEW

2.1 Mentoring System is Powerful

Mentoring is a process of forming a relationship between a more experienced, seasoned and wiser person (mentor) that helps a less experienced person (mentee or protégé who is not the mentor's direct report) develop in some specified capacity [1]. In easy word we can define that mentoring system is provide a special help to the specific person in a special manner.

More specifically, Sue Dion added that the mentoring system will ultimately define, infuse, coordinate and advise practices of mentoring, coaching, technical assistance and consultation as professional development strategies into and across all teams that comprise the overall Professional [2]. She makes a claim based on her experience as an administrator staff at Concordia University where she involve in mentoring project.

Susan Weinschenk describes mentoring as it is targeted and focused time. She may look that mentoring system in deeply and technically challenge that may require a special task to perform it. She added that like a laser beam, mentoring focuses on particular issues, skills and/or knowledge. Mentoring is extremely powerful because it is targeted, involves the use of a highly expert, can be used precisely when it is needed, and involves the people who need it most [3].

2.2 Mentoring System Need to Organize Efficiently

Referring to [4], the authors have suggested that mentoring can best be understood by focusing on 10 behaviours that mentors perform-teaching, guiding, advising, counselling, sponsoring, role modelling, validating, motivating, protecting, and communicating.

These behaviours taken together constitute what's generally thought of as mentoring. However these behaviours will not be attained if its not systematize in efficient and effective manner. Efficiency mean the people involved in mentoring system feel easy and comfortable to the process of the mentoring system itself. This is because the using of paper to communicate with people would cause mislead information. Effective mean the result of the outcome is on expectation where information is not hiding to any people who might need it.

Student performance in this case should be available at any time with a latest updated. It's appropriate to the Chris Ike opinion that the compelling motive was to contribute constructive service to the academic and professional community to share common interests and aspirations among all members [5].

2.3 Online System is the Best Method for Mentoring System

Across the nation, the access to and use of information and communication technologies is growing at an exponential rate. This explosion of the Internet is changing the way we communicate within businesses, politics, in education and in the home. Katherine A. Emery stated that online mentoring appears to offer solutions to the logistical problems that may have prevented the success of more traditional face-to-face mentoring relationships [6]. It permits for communication with people on a range that is unfeasible in face to face communication.

It's similar to the opinion that the compelling motive was to contribute

Most of the existing studies conducted of online mentoring programs look at the use of asynchronous communication, such as email or message boards. In addition, most of the reviewed mentoring programs were situated within the classroom context. Although these programs are structurally different from one another, reports of the program outcomes are surprisingly similar.

2.4 Development of Online Student Advisory System.

Online Student Advisory System is a web based system. This system is use by Academic Centre, Advisor and Students. It is used as a tool to facilitate the Student Advisory System that already been implemented in most school, collage and university. It was developed using Active Server Pages.Net (ASP.Net) programming language and MySQL as the databases. Microsoft Visual Studio.Net has been used to ease the design interface phase. While for the development of the database, MySQL Administrator and Query Browser are used to ease the author create and query the database.

2.5 ASP.Net combines extraordinary developer productivity with performance, reliability and deployment.

ASP.Net programming language is the suitable programming language in developing *Online Student Advisory System*. It is because, ASP.Net combines extraordinary developer productivity with performance, reliability, and deployment [7].

ASP.Net helps developer deliver real world web applications in record time. It makes building real world web applications dramatically easier. ASP.Net server controls enable an HTML like style of declarative programming that let developer build great pages with far less code compare to classic ASP. Best of all, ASP.Net pages work in all browsers including Netscape, Opera, and Internet Explorer.

ASP.Net lets developer leverage their current programming language skills by giving unprecedented flexibility in choice of language. There is a great tool support this programming language. Instead of notepad, developer can use Visual Studio.Net with added productivity of Visual Basic style development to the web.

ASP.Net is much faster than classic ASP. It can serve more users with the same hardware. It will automatically detect any changes, dynamically compile the files if needed, and store the compiled results to reuse for subsequent requests. It also consist rich output caching, which means, when there is more than one user requests the same page, ASP.Net serves the cached result from memory without re-executing the page.

ASP.Net enhanced reliability by automatically detect and recovers from errors to ensure the application is always available to users. ASP.Net also provides easy deployment and migration path. It will dramatically simplify installation of the application. With ASP.Net, developer can deploy an entire application as easily as an HTML page. Developer does not have to migrate the existing applications to start using ASP.NET.

2.6 MySQL Relational Database Management System is an open source and easy to use.

According to Paul Dubois and Stefan Hinz [8], there are several reasons why most developer chooses MySQL. One of it is MySQL software is an Open Source and the Database Server is very fast, reliable, and easy to use. Open Source means that it is possible for anyone to use and modify the software. MySQL, the most popular Open Source SQL database management system, is developed, distributed, and supported by MySQL AB. MySQL AB is a commercial company, founded by the MySQL developers. It is a second generation open source company that unites open source values and methodology with a successful business model. Another reason why most developer chooses MySQL are the MySQL software is dual licensed. Users can choose to use the MySQL software as an open source or free software product under the terms of the GNU General Public License or can purchase a standard commercial license and MySQL Server works in client/server or embedded systems.

2.7 SMS is Convenient

Dr. Subrahmaniam Karuturi state that SMS is convenient and cost effective for a number of reasons [9]. When we compare it with the cost of airtime for voice calls or wireless web access, SMS is a real bargain. SMS is known colloquially as ‘text messaging’, is a massive phenomenon in Europe and Asia, particularly among young user in the 12-22 age [10].

According Tom Celements, he agreed that the benefits of SMS to subscribers center on convenience, flexibility, and seamless integration of messaging services and data access [11]. From this perspective, the primary benefit is the ability to use the mobile phone as an extension of the computer.

From [12], the website articles stated that SMS is a relatively simple messaging system provided by the mobile phone networks. SMS messages are supported by GSM, TDMA and CDMA based mobile phone networks currently in use. Although services based on SMS have been feasible for many years, the recent mobile phone penetration and large scale adoption of the existing services by users have made the SMS based services even more attractive to service providers.

Accordingly, he agreed that the benefits of SMS to subscribers center on

CHAPTER 3

METHODOLOGY

3.1 Procedure Identification

The methodology being used in the development of the prototype of the project is Rapid Application Development (RAD). RAD methodology emphasizes extensive user involvement in a rapid and evolutionary construction of working process of a system to accelerate the system development process. RAD helps in decreasing time needed to implement information systems radically through speedy development and shorter schedules.

RAD aims to analyze business process rapidly, design a viable system solution through intense cooperation between users and developers as well as to get the finished application into the hands of users quickly. This methodology relies on extensive user involvement, Joint Application Design session, prototyping, integrated CASE tools and code generators.

RAD methodology consists of four (4) phases: Requirements Planning Phase (Analysis), User Design Phase (Design), Construction (Detailed design and code generation) and Cutover (Installation and Handover). This project will go through all phases. The following diagram depicts the relationships between stages in the RAD process.

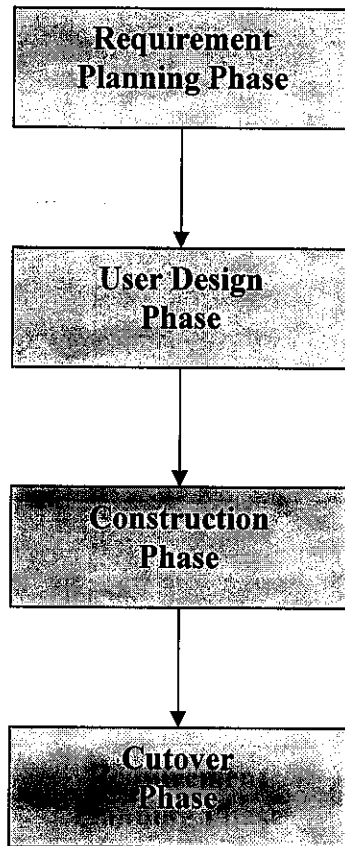


Figure 3.1: Rapid Application Development Process

3.1.1 Requirements Planning Phase (Analysis)

It is also known as the Concept Definition Stage. During this first phase of RAD, the author identified the objectives of this project and the requirement specification including hardware and software requirements of the system for the prototype. The author also identified the high-level process decomposition that determines the functions of the prototype as well as the area it will support. In addition, the scope of the project was identified in these phases, which are online system, tracking activities, alert system, online report and online message as the area of study.

The author has to ensure there is a need of having the prototype and demonstrate that the prototype able to work as expected. Besides, the author also identified the potential or key users of the system. Author determined the tasks and activities that will be incorporated throughout the project with respect to time frame given. Possible cost and risks associated with this project were also outlined. In addition, the author spent a lot of time throughout this analysis phase by conducting many readings and studies on various research papers, journals, white papers, articles and relevant websites covering the mentoring programme, online system, tools and programming language used and related areas.

3.1.2 User Design Phase (Design)

This phase is also known as Functional Design Stage where design and refine involved. In this stage, the outcomes from the analysis phase were reviewed and revised in term of scope, objectives, data models and reports. Initial design using prototyping also was started. Based on findings of research and studies during analysis phase, the author had come out with system's framework to provide initial views on the designing of the application.

Installation and configuration of software were also done during this phase by using Microsoft Visual Studio.Net, MySQL Administration and MySQL Query Browser. The designations of the application such as the story board, page banner, layout and Entity Relationship Diagram (ERD) have been done. This has given basic idea of what the system or prototype will look like in the construction phase.

3.1.3 Construction (Detailed Design and Code Generation)

This phase is usually known as Development Stage. During the development, detailed design is done using suitable design tool and the design is translated into code via code generator. Adjustments and necessary modifications will be made. The system's prototype will be implemented module by module with respect to functionalities and features developed.

The changes will be done during design as the codes will be regenerated and optimized. Number of users will be selected to validate and test the system comprising the screens layout and also the functions of the prototype itself. Usability will be done on every subsystem to ensure that the system's prototype is easy to use. Testing will be done on the features and functionalities to ensure they are operational.

3.1.4 Cutover (Installation and Handover)

Cutover or Deployment Stage involves various activities towards the implementation fully functional prototype into real environment. These include final user testing and training, data conversion, and the implementation of the application. The system is put into real operation and is ready to be widely-used by all end-users. The system is the modified version as the result from feedback during testing. In this phase, the system is already fully tested as final documentation is prepared to guide end-users in using the system. The system is expected to function correctly and is capable of meeting the user requirements.

Applying RAD as the chosen methodology has provided the author with various advantages. RAD tools are easy to learn and promote good design of a user-friendly interface. Furthermore, RAD allows for quick testing and debugging of a system as it provides early visibility through prototyping. In addition, RAD also offers greater flexibility in which redesign process is done almost at will.

3.2 Tools Used

3.2.1 Microsoft Visual Studio.Net with ASP.Net Web Application

Visual Studio.Net provides the tools need to design, develop, debug, and deploy ASP.Net Web Applications. To efficiently manage the items that are required by development effort, such as references, data connections, folders, and files, Visual Studio .Net provides two containers which are solutions and projects. An interface for viewing and managing these containers and their associated items is provided as part of the Integrated Development Environment (IDE). Building, debugging, and testing are key activities in developing and finishing robust applications, components, and services.

The tools provided with Visual Studio.Net are designed to allow author to control build configurations, identify and resolve errors efficiently. ASP.Net combines extraordinary developer productivity with performance, reliability, and deployment. It helps author deliver real world web applications in record time, serves more users with the same hardware, ensures the application are always available to users and extend application reach to new customers and partners.

3.2.2 MySQL Administrator

MySQL Administrator is a powerful visual administration console that enables author to easily administer their MySQL environment and gain significantly better visibility into how the databases are operating. By using MySQL Administrator, author will be able to achieve higher database availability through improved management, reduce errors through visual database administration and deliver a more secure environment through easier privilege management. It also enables author to easily perform all the command line operations visually including server configuration, administering users, and dynamically monitoring database performance.

3.2.3 MySQL Query Browser

MySQL Query Browser is the easiest visual tool for creating, executing, and optimizing SQL queries for MySQL Database Server. It gives author a complete flexibility to visually build, analyze and manage queries. Developer can use the visual tools or can maintain complete control by hand coding the query. It provides an easy way to use web browser like interface that gives instant access to all of the Query Browser's functionality. And also, the Script Editor inside it provides a robust interface for creating, editing, and debugging large SQL scripts that involve multiple SQL statements.

CHAPTER 4

RESULT AND DISCUSSION

This chapter summarizes the evaluation of the product, result and findings of the evaluation and discussion of the project. The discussion covers the result and output of the *Online Student Advisory System*.

4.1 Evaluation

An evaluation has been performed on *Online Student Advisory System*. This evaluations being done at the end of the project development when the project is done. Selection is made to particular users among student from various backgrounds of course. Heuristic evaluation has been applied for the evaluation.

Heuristic evaluation is the most popular of the usability inspection methods. Heuristic evaluation is done as a systematic inspection of a user interface design for usability. The goal of heuristic evaluation is to find the usability problems in the design so that they can be attended to as part of an iterative design process.

Several step to perform the heuristic evaluation:

1. Plan evaluation
2. Choose evaluators
3. Review the heuristics
4. Conducting the evaluation
5. Analyzing the results

4.1.1 Online Student Advisory System Evaluation

Evaluation of complete product is conducted among UTP students in their own residential collage. This kind of evaluation is similar to field study evaluation where this style takes the evaluator out into the user's natural environment in order to observe the system in action. In this environment, user will expose with interruptions and feeling as in real situation where they usually surf the internet everyday.

For that the author has selected ten students from various courses. This evaluation is done in order to determine the effectiveness of the online system comparing to the traditional system of Student Advisory System. It also was being done to determine the effectiveness of using mobile phone in providing alert to the user, effectiveness of tracking activities, online report and online message. Questions generally base on user satisfaction on the interface and user agree ness on the functionality and effectiveness of the system.

4.1.2 Evaluation Procedure

The step for conducting the testing are:

1. Ten users basically the students are taken to be as subject for the testing.
2. Each of the users is given time (not specific) to browse and use the website in the natural environment that is hostel or study environment.
3. Each of the students is given a set of questionnaire to answer.

First of all, the respondents are given opportunity to browse the website. No specific time is given for each respondent. The testing being done at the student's residential room, which is consider as their natural environment because most of their time of surfing the internet are in this environment. This will give respondents feeling of comfort and familiarity as they are used to the environment.

After they finish browse and use the website, they were given a set of question to be answered. The response gather from the questionnaire is more specific and easy to analyze. The questionnaire was design in two different sections. The first section is for content, layout and design. The respondents were asked to indicate their satisfaction in term of the design factors such as text colour and style, background colour and layout. The second section is for the functionality and effectiveness of the system. Respondents were asked to indicate their level of agreements on the statement provided.

4.2 Result and Findings

From the evaluation conducted, all data collected were analyzed to get the result. The result being analyzed using the bar chart from the data gathered during valuation and from some calculation that the author done. Following are the details of the result.

<u>Design, Content & Layout</u>	Strongly Dissatisfied	Somewhat Dissatisfied	Neither Satisfied Nor Dissatisfied	Somewhat Satisfied	Strongly Satisfied
	<i>Number of Respondent</i>				
Design	0	1	3	4	2
Content	0	0	2	5	3
Layout	0	0	4	4	2
Text Colour	0	1	3	5	1
Text Style	0	2	1	6	1
Background Colour	0	1	3	4	2
Colour Combination	0	1	3	5	1

Table 4.1: Data Gathered From the Evaluation Regarding Content, Design, Layout, Text and Colour

<u>Functionality & Effectiveness</u>	Strongly Disagree	Somewhat Disagree	Neither Agree Nor Disagree	Somewhat Agree	Strongly Agree
	<i>Number of Respondent</i>				
Enhance Participation	0	0	2	5	3
Enhance Interaction	0	0	0	7	3
Save Time	0	0	0	5	5
Make Life Easier	0	0	0	5	5
Effective Tracking Activities	0	0	2	4	4
Effective Alert System	0	0	3	3	4
Effective Online Report	0	0	2	3	5
Effective Online Message	0	0	2	5	3
Overall Effective	0	0	0	6	4

Table 4.2: Data Gathered From the Evaluation Regarding Functionality and Effectiveness of Online Student Advisory System.

Table 4.1 and 4.2 is both tables for data gathered from the evaluation. Table 4.1 shows data gathered regarding content, design, layout, text colour, text style, background colour and colour combination. While table 4.2 shows data gathered regarding functionality and effectiveness of the *Online Student Advisory System*. The functionality is enhancing user participation, enhance interaction between student and advisor, save the time consumed and make life of the user easier. The effectiveness being evaluated based on the tracking activities, alert system, online report, online message and the system as the whole.

From the above data gathered, Mead Mod and Median were calculated. From table 4.3 and 4.4 below, we can see mod and median of all criteria is almost the same. This is because data gathered are not distributed equally among the answer. Meaning that, there is no respondent who choose answer 1 which is strongly dissatisfied and also a little number of respondent answer 2 which is somewhat dissatisfied.

The mean is being calculated in other to know the average answer for all of the criteria. The most average answer for all criteria regarding the design, content, layout, text and colour is between 3.5 and 3.9 which are considered neither dissatisfied nor satisfied. While for functionality and effectiveness evaluation, author found that, most average answer for all criteria is 4, somewhat agree.

Criteria	Mean	Mod	Median
Design	3.7	4	4
Content	4.1	4	4
Layout	3.8	3,4	4
Text Colour	3.6	4	4
Text Style	3.6	4	4
Background Colour	3.7	4	4
Colour Combination	3.6	4	4

Table 4.3: Mean, Mod and Median of Content, Design, Layout, Text and Colour

Criteria	Mean	Mod	Median
Enhance Participation	4.1	4	4
Enhance Interaction	4.3	4	4
Save Time	4,5	4,5	4,5
Easier Life	4.5	4,5	4,5
Effective Tracking Activities	4.2	4,5	4
Effective Alert System	4.1	5	4
Effective Online Report	4.3	5	4,5
Effective Online Message	4.1	4	4
Overall Effective	4.4	4	4

Table 4.4: Mean, Mod and Median of Functionality and Effectiveness of Online Student Advisory System

Color and Style Evaluation

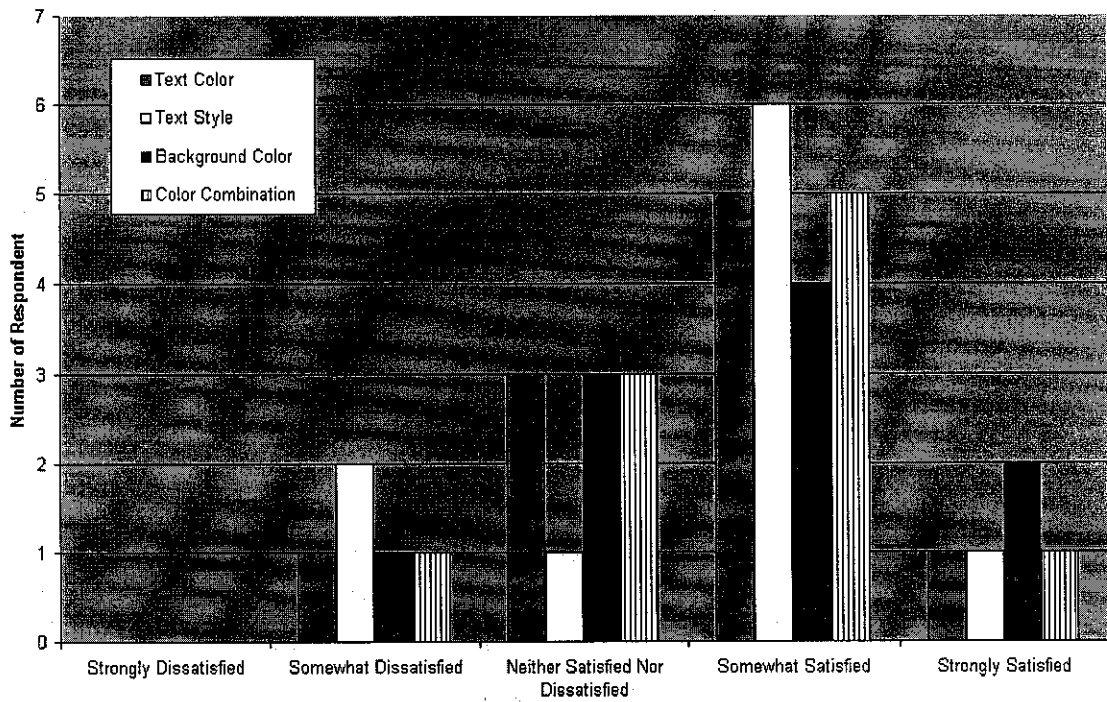


Figure 4.1: Result of Evaluation Regarding Text Style, Text Colour, Background Colour and Colour Combination.

Figure 4.1 shows the result of four criteria of the web site tested which are text colour, text style, background colour and colour combination. Here we can see that for each of the criteria, the highest answer choose by respondents is 4, somewhat satisfied. For text colour, 10% out of total number of respondent strongly satisfied, 50% of the respondent are somewhat satisfied, 30% of the respondents are neither dissatisfied nor satisfied and the remaining are somewhat dissatisfied . As for the text colour, 10% of the respondent strongly satisfied, 60% of the respondents are somewhat satisfied, 10% of the respondents are neither dissatisfied nor satisfied and 10% are somewhat dissatisfied. For background colour, out of total number of respondent, 20% strongly satisfied, 40% are somewhat satisfied, 30% of the respondents are neither dissatisfied nor satisfied and 10% are somewhat dissatisfied. Meanwhile, for the colour combination, 10% strongly satisfied, 50% are somewhat satisfied, 30% are neither dissatisfied nor satisfied and the remaining is somewhat dissatisfied.

Design, Content and Layout Evaluation

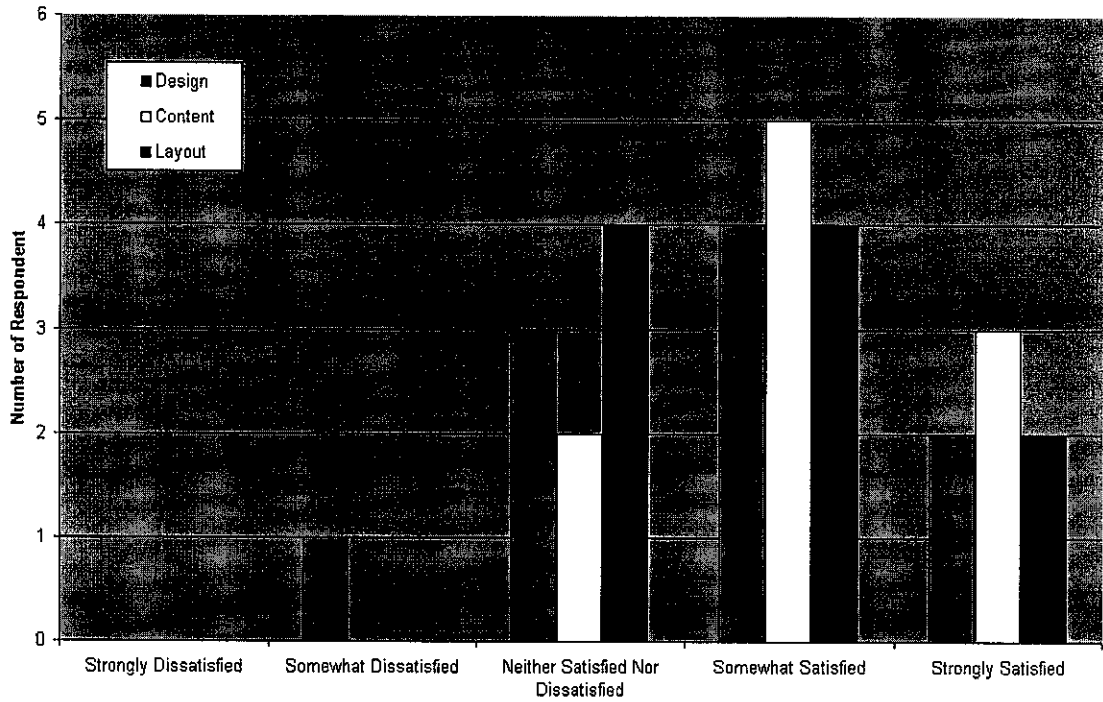


Figure 4.2: Result of Evaluation Regarding Design, Content and Layout of the System.

Figure 4.2 shows results regarding another three criteria of the web site tested which are designs, content and layout. Same with figure 4.2, we can see that for each of the criteria, the highest answer is 4, somewhat satisfied. For design, 20% out of total number of respondent strongly satisfied, 40% of the respondents are somewhat satisfied, 30% of the respondents are neither dissatisfied nor satisfied and 10% are somewhat dissatisfied. As for the content, 30% of the respondent strongly satisfied, 50% of the respondents are somewhat satisfied and the remaining of the respondents neither dissatisfied nor satisfied. While for the layout, out of total number of respondents, 20% strongly satisfied, 40% are somewhat satisfied and 40% are neither dissatisfied nor satisfied.

Functionality Evaluation

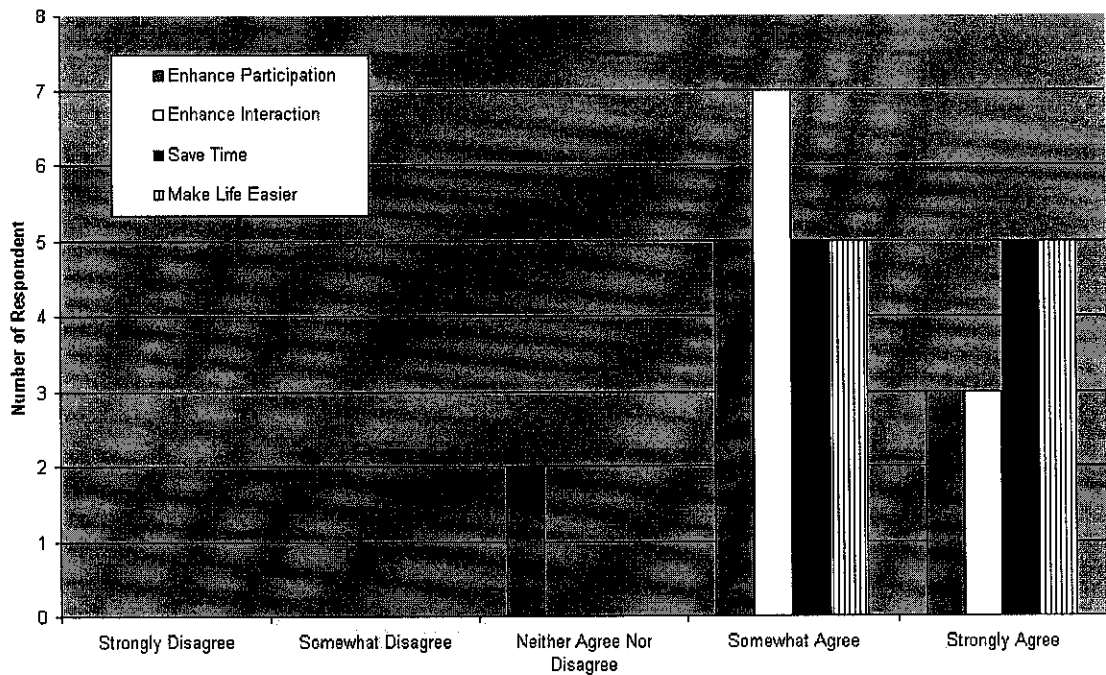


Figure 4.3: Result of Evaluation Regarding Functionality of Online Student Advisory System.

Figure 4.3 shows results regarding functionality of *Online Student Advisory System*. There are four criteria being questioned during the evaluation. The criteria are enhancing participation, enhance interaction, save time and make life easier. The highest answer for most of the criteria is 4 which is somewhat agree except for save time and make life easier. For enhancing participation, 30% out of total number of respondent strongly agree, 50% of the respondents are somewhat agree and the remaining are neither disagree nor agree. For enhance interaction, 30% of the respondent strongly agree and 70% of the respondents are somewhat agree. While for both save time and make life easier, half of the respondents are strongly agree and another half are somewhat agree. As we can see here, no respondents was answered for 1, strongly disagree and 2, somewhat disagree.

Effectiveness Evaluation

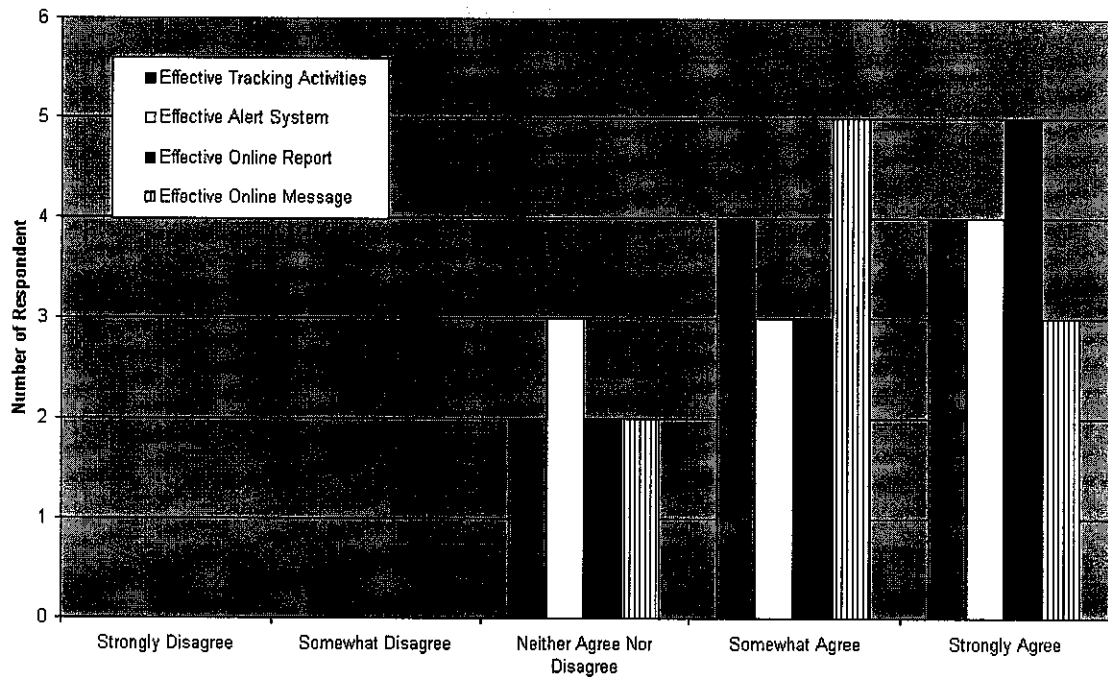


Figure 4.4: Result of Evaluation Regarding Effectiveness of Online Student Advisory System.

Figure 4.4 show results regarding effectiveness of *Online Student Advisory System*. Again, there are four criteria being questioned during the evaluation. The criteria are based on scope of study which is tracking activities, alert system, online report and online message. The first statement in the questionnaire is about the effectiveness of tracking activities. For that, 40% out of total number of respondent strongly agree, 40% of the respondents are somewhat agree and the remaining are neither disagree nor agree. For the second statement which is about the effectiveness of the alert system, 40% of the respondent strongly agree, 30% of the respondents are somewhat agree and 30% are neither disagree nor agree. As for the effectiveness of online report, out of total number of respondents, 50% strongly agree, 30% are somewhat agree and 20% are neither disagree nor agree. While for effectiveness of online message, 30% strongly agree, 50% are somewhat agree and 20% are neither disagree nor agree. Same with figure 4.3, no respondents was answered for 1, strongly disagree and 2, somewhat disagree.

Overall Effectiveness Evaluation

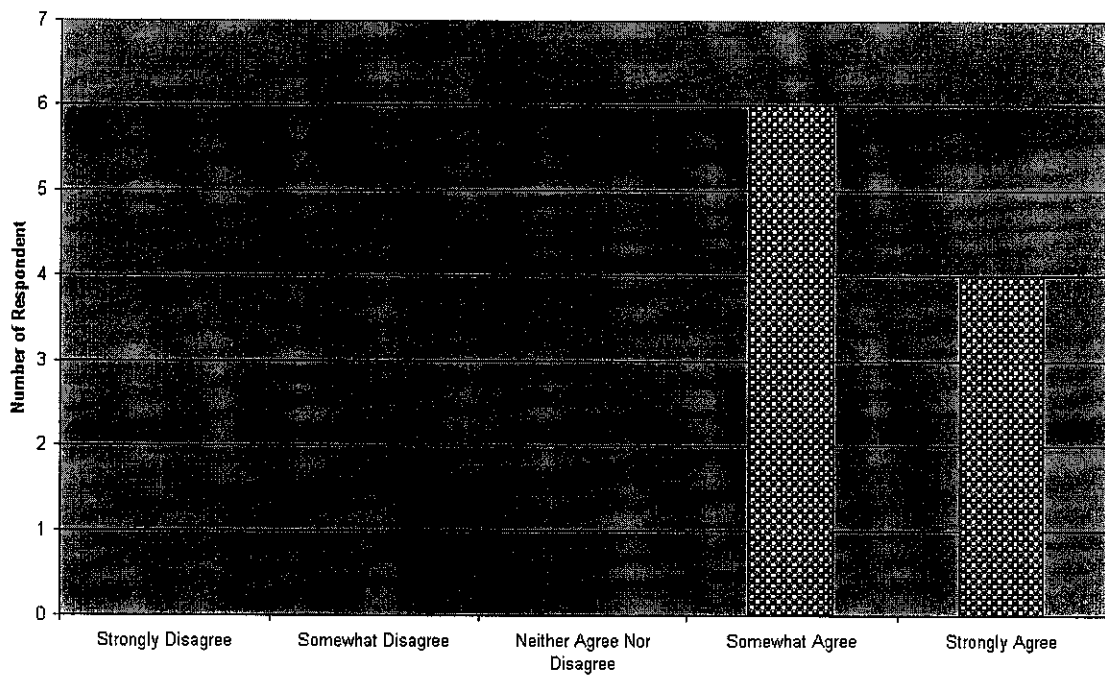


Figure 4.5: Result of Evaluation Regarding Effectiveness of Online Student Advisory System as Overall.

Figure 4.5 show results regarding effectiveness of the *Online Student Advisory System as a whole*. The statement being questioned to the respondents are ‘Overall, the online student advisory system is effective and efficient’. For that, 40% out of total number of respondent strongly agree and 60% of the respondents are somewhat agree.

4.3 Discussion

Web and internet technology is normally related to elements in Human Computer Interaction (HCI). In designing and developing a website or a system, elements in the HCI must take into consideration. Two important element of HCI related will be discussed in this section.

4.3.1 User Satisfaction on the Design

User satisfaction on the design can be measured based on evaluation result. The result is categorized in terms of design, content, layout, text and colour. There are basically three text styles being used in the system which are Times New Roman, 1942 Report and Agency FB. Font style of 1942 Report is used for the title. Even the font style is same in every page, but, the font colour is different according to user type.

Every page, basically there is three combination of colour. For the main page, the combinations of colour being used are navy blue, lavender and soft blue. As for academic centre page, the combinations of colour being used are mint cream and grey. The combination colours for advisor are olive, azure and soft green. While for the student, the colour being chosen are teal, light cyan and soft blue. Before discussing further about it, Figure 4.6, 4.7, 4.8 and 4.9 show some print screen of the system. This will make the readers clear about the user acceptance of the interface that will be discussed in the next page.

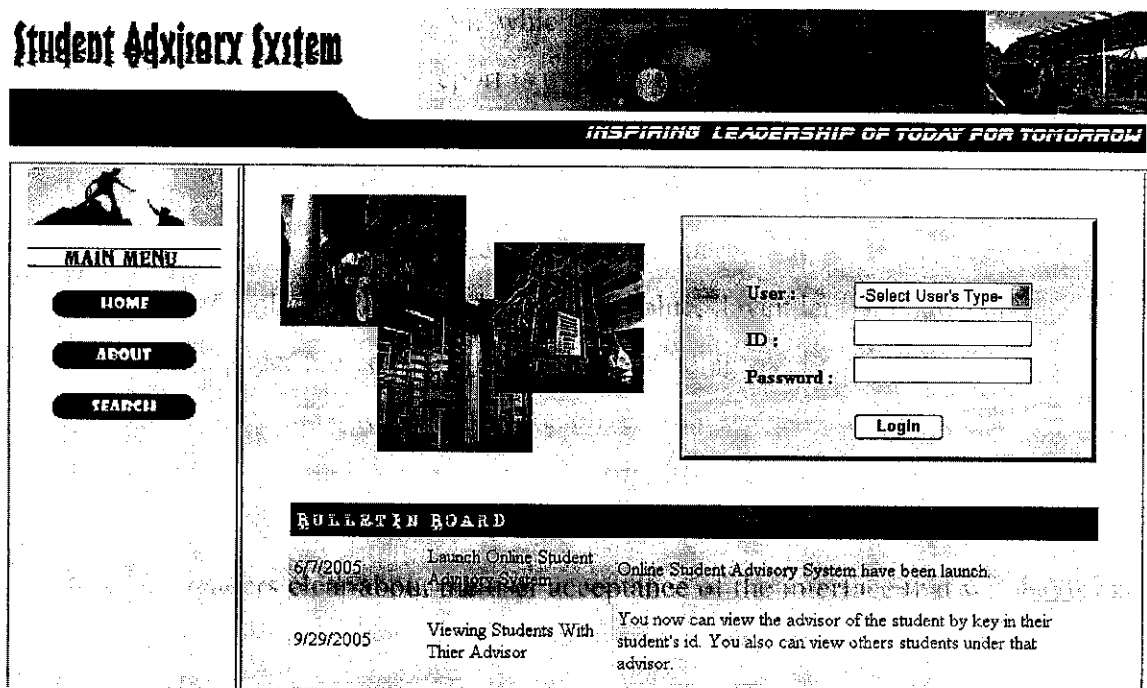


Figure 4.6: Print Screen of Online Student Advisory System Main Page

ACADEMIC CENTRE

Welcome, Wan Nor Manizah

Alert
You have 1 new report
[\[Click Here\]](#)

Advisor Contact Details

Name	Extension	Email
Shakirah Mohd Taib	7497	shakita@petronas.com.my
Jale Ahmad	7409	jale_ahmad@petronas.com.my
Izzatdin A Aziz	7495	izzatdin@petronas.com.my
Faizal Ahmad Fadzil	7405	faizal_ahmadfadzil@petronas.com.my
Ahmad Kamil Mahmood	7476	kamilmh@petronas.com.my
Hasih Mohamed @ Omar	7411	hasiah@petronas.com.my

Figure 4.7: Print Screen of Academic Centre Main Page

ADVISOR

Welcome, Shakirah Mohd Taib

Alert
You have 1 next meeting
[\[Click Here\]](#)

BULLETIN BOARD

Date	Title	Details
9/29/2005	Viewing Students With Their Advisor	You now can view the advisor of the student by key in their student's id. You also can view others students under that advisor.
9/20/2005	Report Submission	For this semester, the report can be submitted through the form that have been provided in this web site.
6/7/2005	Launch Online Student Advisory System	Online Student Advisory System have been launch.

Figure 4.8: Print Screen of Advisor Main Page

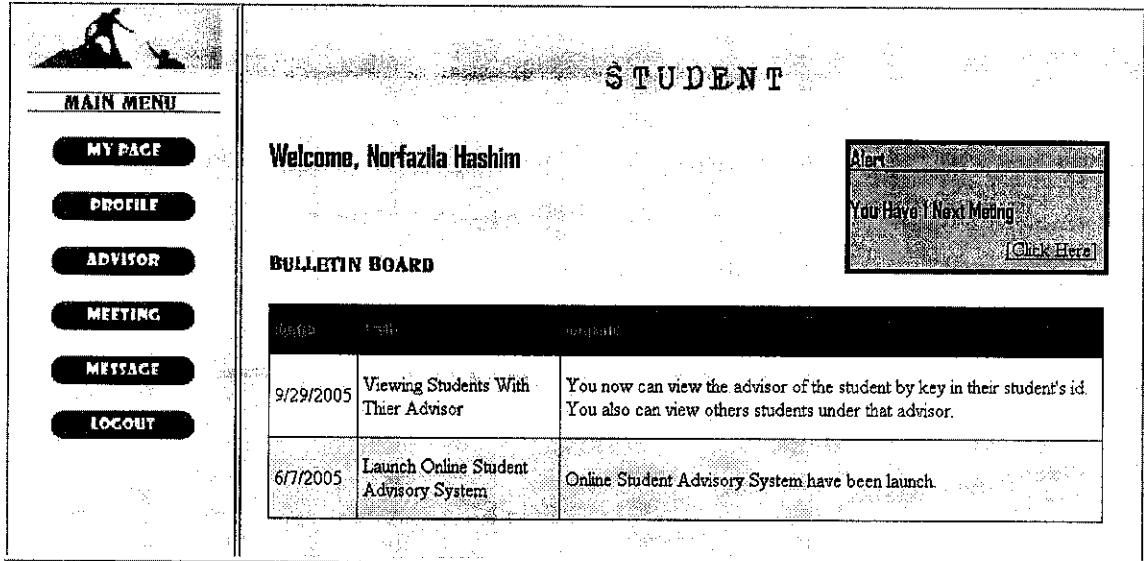


Figure 4.9: Print Screen of Student Main Page

A good and reliable design system is also one of the objectives of this project. The author needs to apply a well known database management system and programming language which are MySQL and ASP.Net. MySQL are open source software, extensive online documentation and compatible with many different operating systems. While ASP.NET helps author deliver real world web applications in record time, serves more users with the same hardware and ensures the application are always available to users. For development phase, the author did the testing by run the web application in Internet Explorer using Internet Information Services (IIS) Web Server.

According to data gathered, the highest answers chose by respondents regarding the content, design, layout, text and colour is 4, somewhat satisfied. These show that, most of the respondents are satisfied with the interface of the website. Although there is also small number of respondent answer for 2, somewhat dissatisfied, but still as an overall the respondent are satisfied with the website design and the objective to create a good and reliable system have been achieved.

4.3.2 Effectiveness of Online Student Advisory System

In scope of the study, the system expected to function correctly and capable of meeting the scope mentioned, which are developing an online system, enable tracking activities, set in alert system, allow submitting report online and provide online messaging. As an overview, Online Students Advisory System is a system as whole. The development of alert system, online report and message is only a portion of this system in order to make it more effective compare to ordinary web application.

The main focus of the *Online Student Advisory System* is making the traditional system more efficient and effective in order to improve and overcome the problem faced. The system being develop need to embedded the SMS alert system and providing online report and discussion to the users in order to come out with an effective system. Moreover, the system is expected to be as a tool to facilitate the system by enabling the system administrator (Academic Centre) to keep track the activities performed under this system. With this online system, it is easier for Academic Centre to manage the Student Advisory System efficiently.

On this project, the effectiveness will be value highly by evaluating the system among number of users. According to result and finding of the evaluation state previously, only 20% of respondents answered for 3, neither agrees nor disagrees for the effectiveness of tracking activities, alert system and online message. While for effectiveness of alert system, only 30% answer for 3 neither agrees nor disagree. The remaining of the respondents answer for 4, somewhat agree and 5, strongly agree.

Meaning that, more than 30% of the respondent are agree with the effectiveness of all the criteria. It show that most of the respondents from the survey agree that the Online Student Advisory System is effective as it can give lot of advantages to the users, such as save their time and energy and make their life easier on participating in student advisory system.

Referring to figure 4.5, 60% out of total number of respondent answer for 4, somewhat agree and the remaining 40% answer for 5, strongly agree. This show that all of the respondents agree that, as overall, the *Online Student Advisory System is effective*.

On overall, it can be concluded that the objective being stated in the introduction which are to implement a tool to facilitate the Student Advisory System that have been implemented in university by tracking the activities perform under the system, to create an effective system by providing short message (SMS) alert to the user and to create an effective system by allowing submitting report and message online have been achieved.

CHAPTER 5 CONCLUSION

5.1 Conclusion

Online Student Advisory System is a structured portal with the purpose to improving the current traditional system in order to guide the foundation and first year students and also students who are under probation and under probation and warning especially in their academic. This system helps them in enhancing their performance in study and also their self confidence. With this online system, the problem of time consuming, ineffectiveness of the system and others problem that have been identified by author previously can be overcome.

The establishment of *Online Student Advisory System* is more on referring to the use of internet or intranets which ever available to the user especially to the personnel involve in this system like students, advisors and Academic Centre staff. The uses of the portal have taken the important role in overcoming the possible problem of the traditional system.

Compare to traditional system, the online system is more effective. The *Online Student Advisory System* consist an advance function such as providing alert system, online report and online discussion. Other than that, its enable the Academic Centre to keep track the activities perform by the advisor and its students under this system.

In designing a website, some HCI issue is taken into consideration. Focus is given to acceptance, functionality and most importance is effectiveness of the system. For completion of this project, evaluation is done to collect data from users by distributing questionnaires. Evaluation of completed product was conducted with participation from

students as the evaluators. The evaluation is done in the hostel environment to give them a natural and familiar environment. Analyzing the data from the evaluation enable the author to predict the user acceptance and agree of the functionality and effectiveness of the system.

As the project reach towards the end, project objective have been achieved. User's acceptance, functionality and effectiveness of the product are being questioned during the evaluation. From the result, it is concluded that, with the implementation of the *Online Student Advisory System*, the problem being stated in problem statement and identification will be overcome as it can give many advantages to the user.

5.2 Project Implementation Challenges.

My first planned on implementation of the website is to provide real time discussion threat for both advisor and student. But the real time online discussion was not successful due to time constraint. The author actually still learns about the programming language during the development of the web site.

Even though the author manage to achieve other scope of study for the project such as online report, alert system and tracking activities, but, coding for real time discussion is too difficult for her as a beginner programmer. So, the author come out with an idea to replace the online discussion with online message. In the online message, student and advisor also can communicate online but not in real time condition.

MySQL database is license-free and can be install to any computer to being used for any purpose except for the profit making where it need to buy the license. The installation of MySQL is very east despite to its capability to support a large and robust database application.

The author faces difficulty when MySQL software cannot create database instance. She had tried several times to create the database instance. The database instance finally successfully created when she made some configuration to her computer security and setting. However this problem might not occurred if MySQL database is installed on dedicated computer.

5.3 Recommendation

This project is look as easy as name of the topic but not in the progress and its development. There are many aspects should be considered in order to make the system run properly as in real system. Thus, author should hold the project very carefully by clearly define every requirements before proceed to the construction phase. Otherwise the problem will occur.

In globalization world nowadays, there is nothing possible to make with the system that linkage to each other. With an objective to make the system efficient and effective, the system is recommended to be link with Course Registration Unit, Exam Unit and Residential Collage Unit System of the university.

With this linkage, the information needed by Academic Centre can be attaining easier and faster. For instance, it is easier to detect the result of the students, so that, the academic centre and advisor can know that the students need to give special consideration compare to others. The information such as course being registered by the student for the semester is also easier to achieve. This could be implemented by applying the best security method and limit the user's access privilege to Student Advisory System that link to Course Registration Unit, Exam Unit and Residential Collage Unit System.

Development tools like Visual Studio.Net and MySQL that used to develop web based application is essential to student to grasp. Even though the tools are very crucial but it did not give difficulty rather than the process of the system in order to provide the system that effective and satisfaction.

Student must be able to make a program that can be used to develop their application if they want to achieve project objectives. Otherwise they might face a difficulty to explain their product functionality with the incomplete application. Given that the main objectives of Final Year Project is to offer them an experience in developing real system, that different than standard group project.

Selection of devices and tools should be plan carefully especially to novice user whom unable to catch up new things fast. Student should able to provide a prototype of system by using any devices that appropriate to the project. For the application that required data transfer between mobile phone to computer, student should used serial data cable that compatible with the phone model. Otherwise they might use infrared or Bluetooth embedded mobile phone to communicate with computer.

Student must be able to make a program that can be used to develop their application

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APPENDICES

List of appendices:

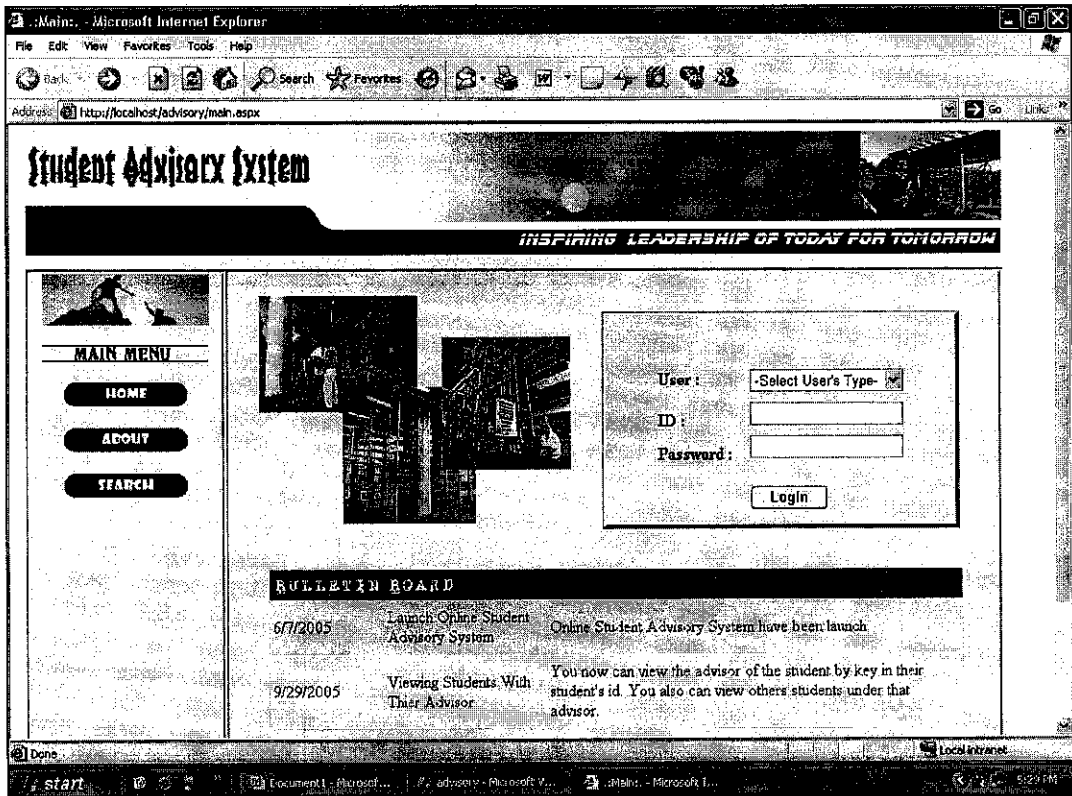
Appendix A: Print Screen

Appendix B: Sample of Questionnaire

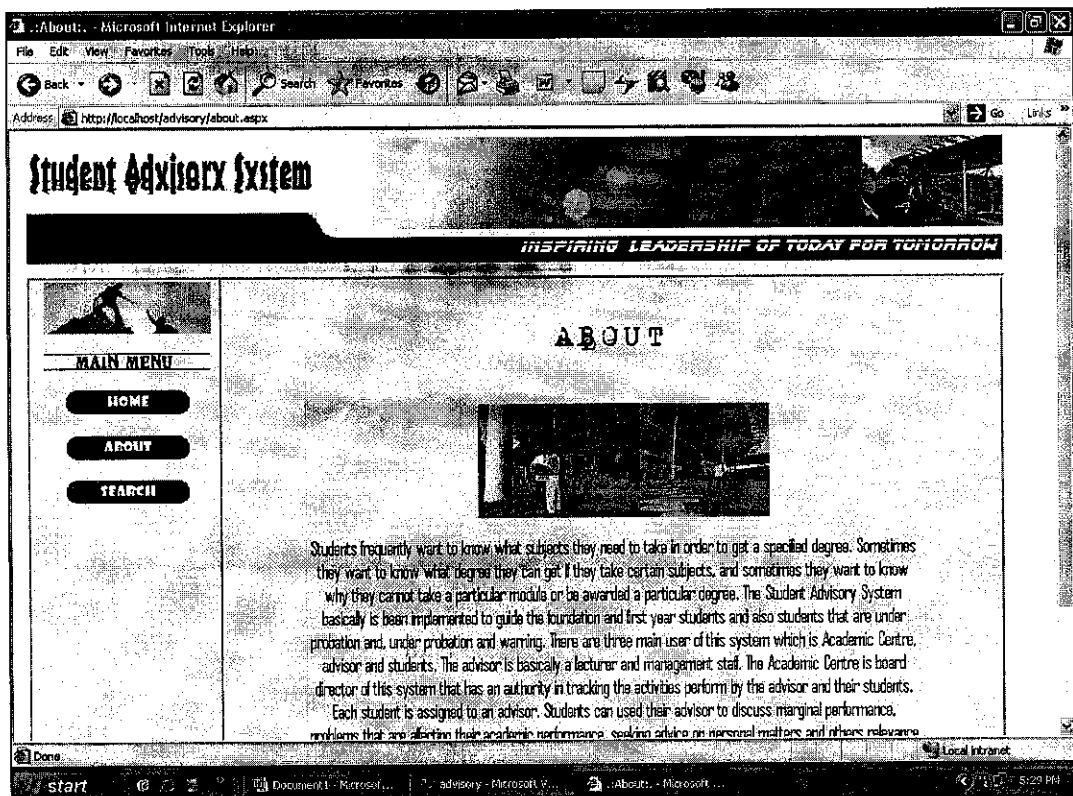
Appendix C: Entity Relationship Diagram (ERD)

Appendix D: Story Board

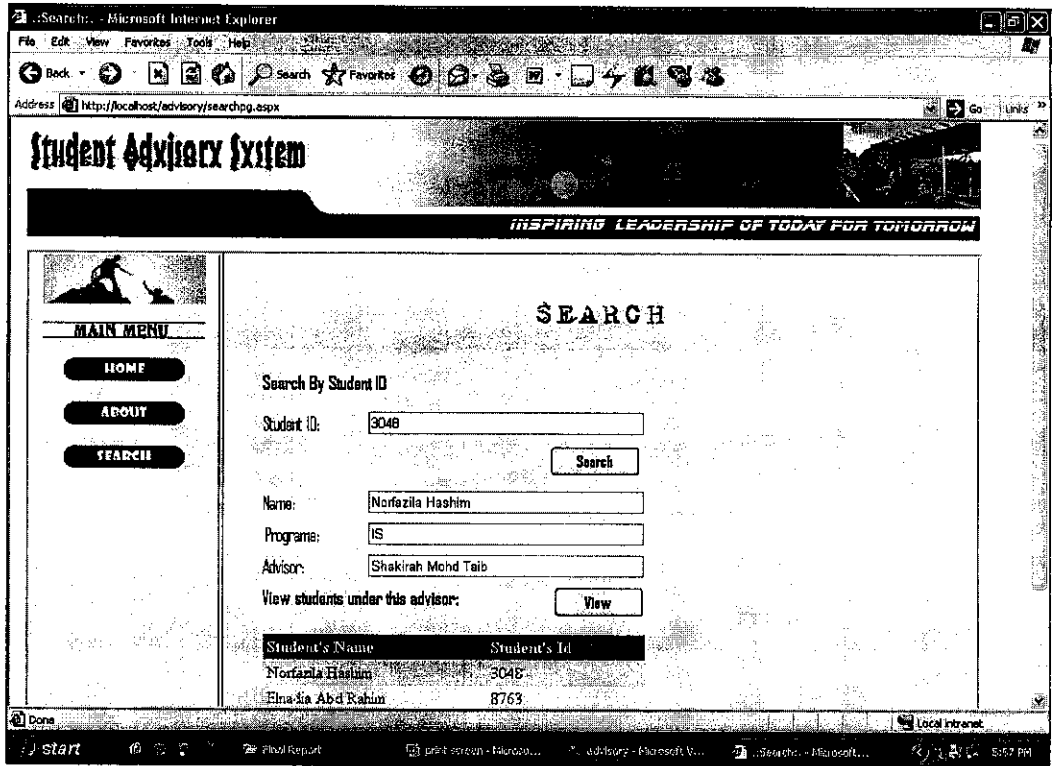
Appendix E: Slide Presentation



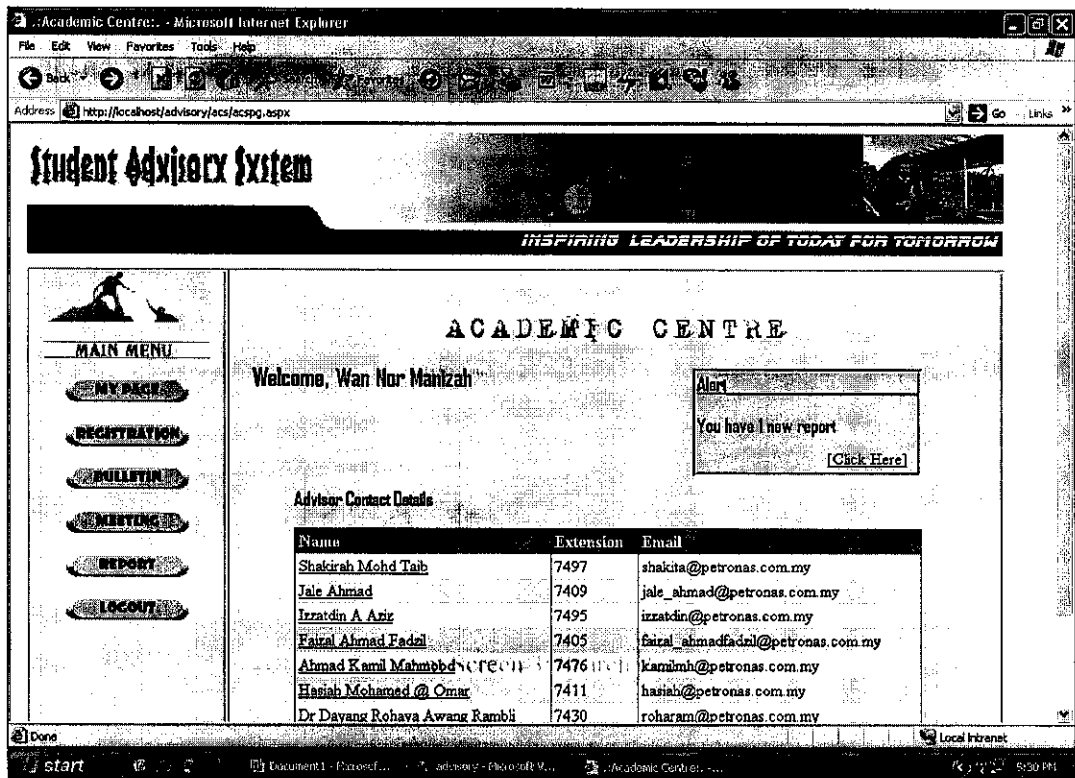
Print Screen 1: Main Page



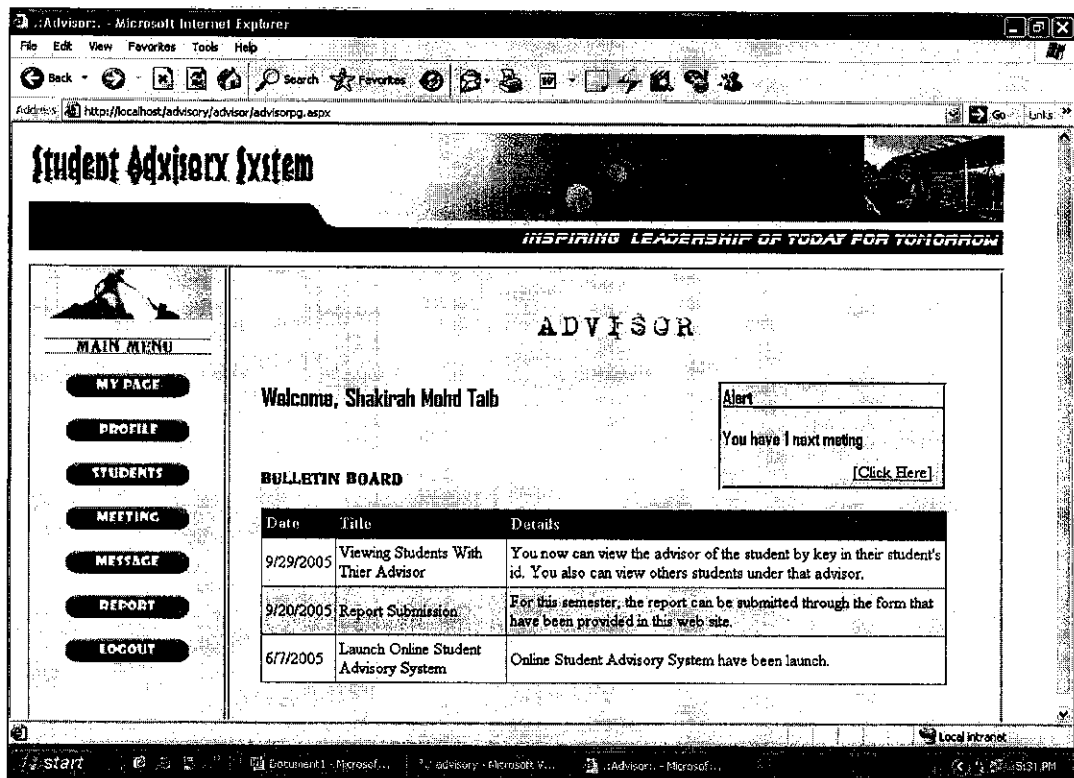
Print Screen 2: About Page



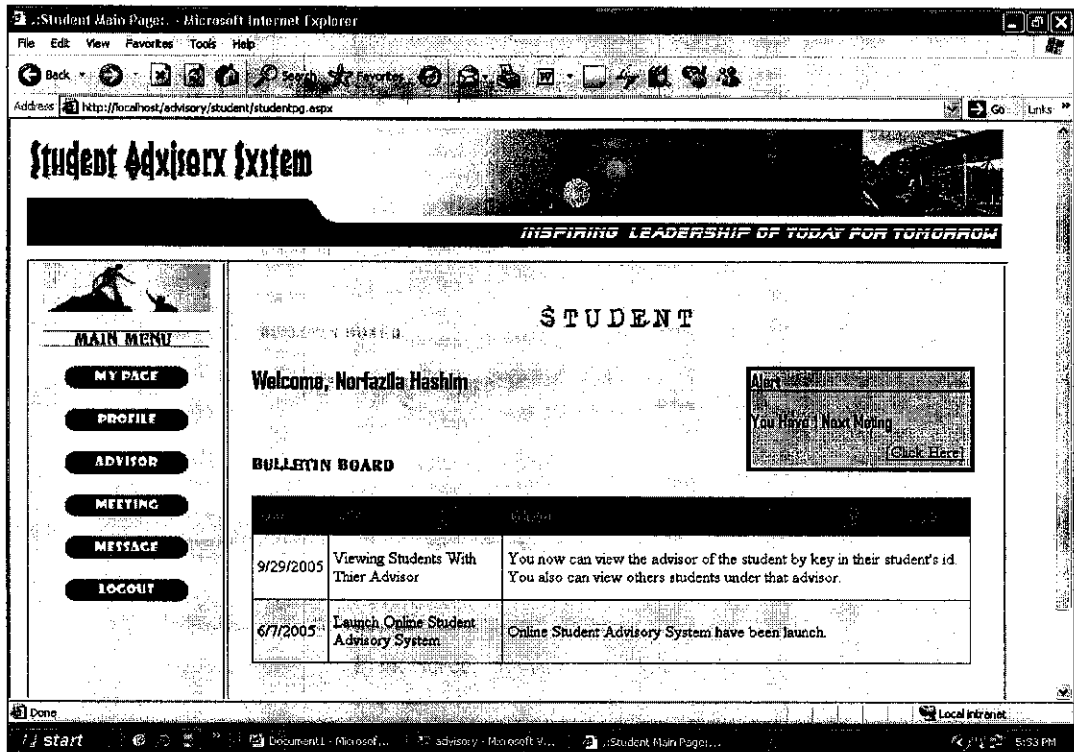
Print Screen 3: Search Page



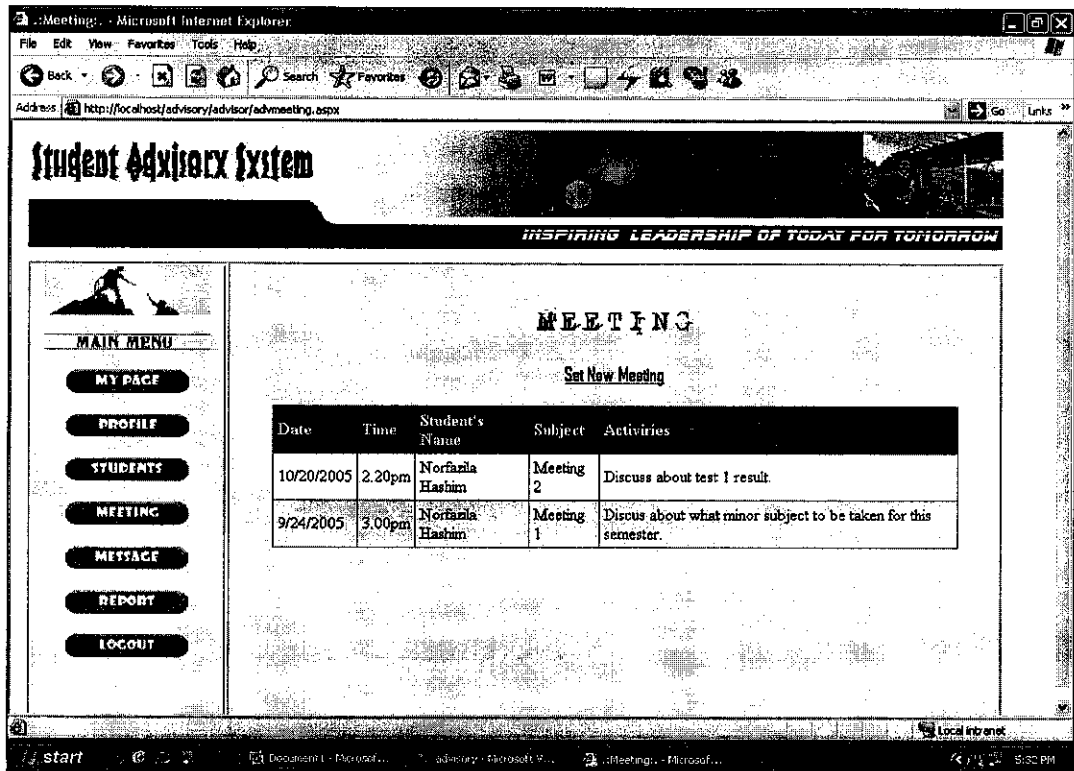
Print Screen 4: Academic Centre Main Page



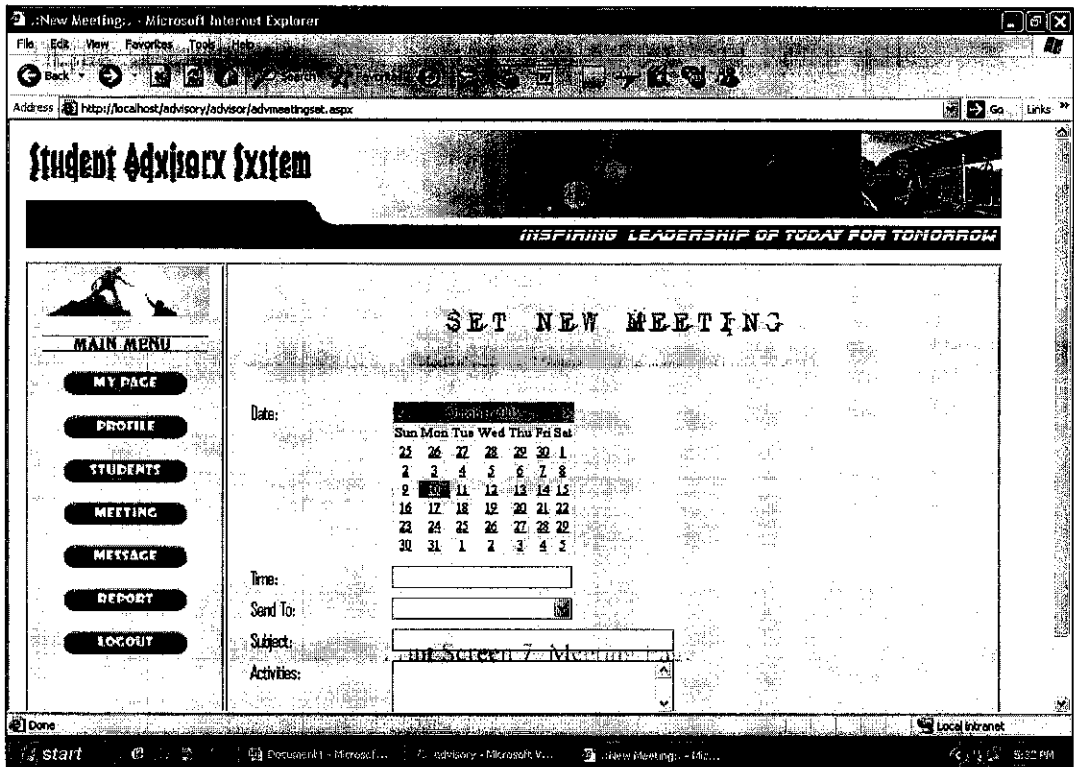
Print Screen 5: Advisor Main Page



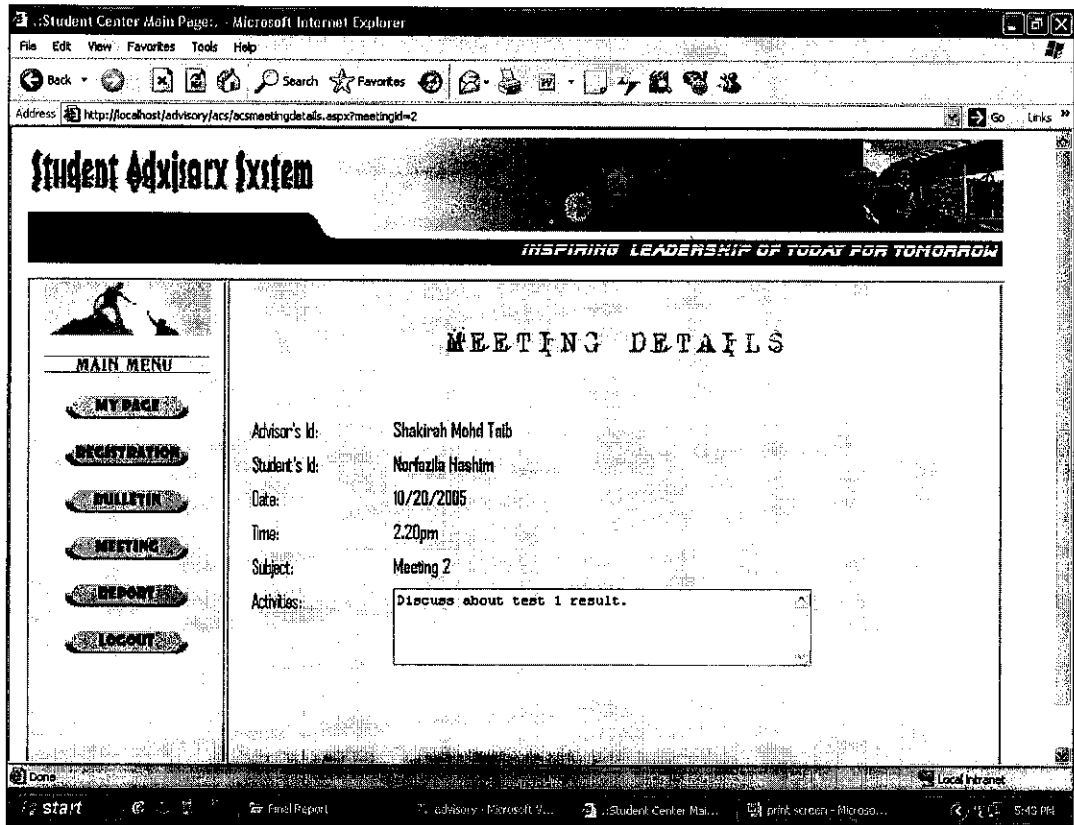
Print Screen 6: Student Main Page



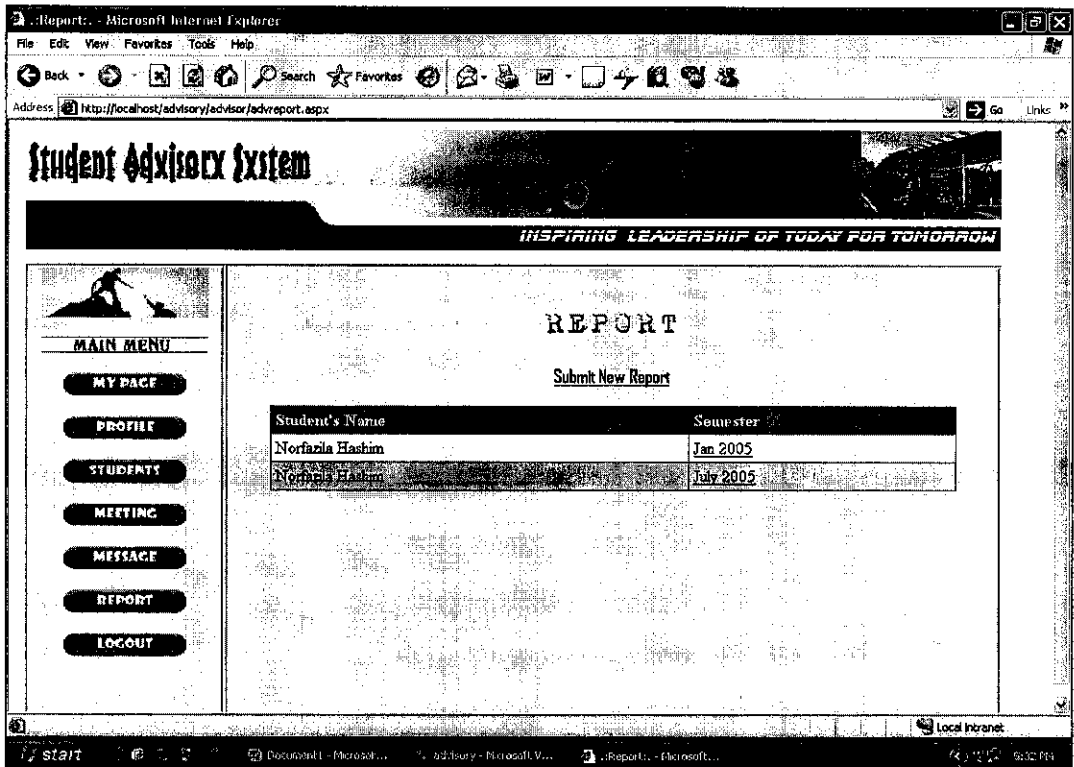
Print Screen 7: Meeting Page



Print Screen 8: Meeting Form



Print Screen 9: Meeting Details Page



Print Screen 10: Report Page

..Advisor Main Page: - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address: http://localhost/advisory/advisor/advreportsubmit.aspx

Student Advisory System

INSPIRING LEADERSHIP OF TODAY FOR TOMORROW

MAIN MENU

- MY PAGE
- PROFILE
- STUDENTS
- MEETING
- MESSAGE
- REPORT
- LOGOUT

SUBMIT NEW REPORT

Advisor's Name:

Student's Name:

Date:

Semester:

Student's Performance:

Summary:

Recommendation:

Done

start Document1 - Microsoft... ..Report Details... ..Advisor Main Page...

Local Intranet 5:33 PM

Print Screen 11: Report Form

..Report Details: - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address: http://localhost/advisory/advisor/advreportsdetails.aspx?reportid=2

Student Advisory System

INSPIRING LEADERSHIP OF TODAY FOR TOMORROW

MAIN MENU

- MY PAGE
- PROFILE
- STUDENTS
- MEETING
- MESSAGE
- REPORT
- LOGOUT

REPORT DETAILS

Advisor's Id: Shakti Mohd Taib

Student's Id: Norfazila Hashim

Date: 6/15/2005

Semester: Jan 2005

Student's Performance: Perform well for this semester.

Summary: Good participation. Have meeting more than three times during this semester.

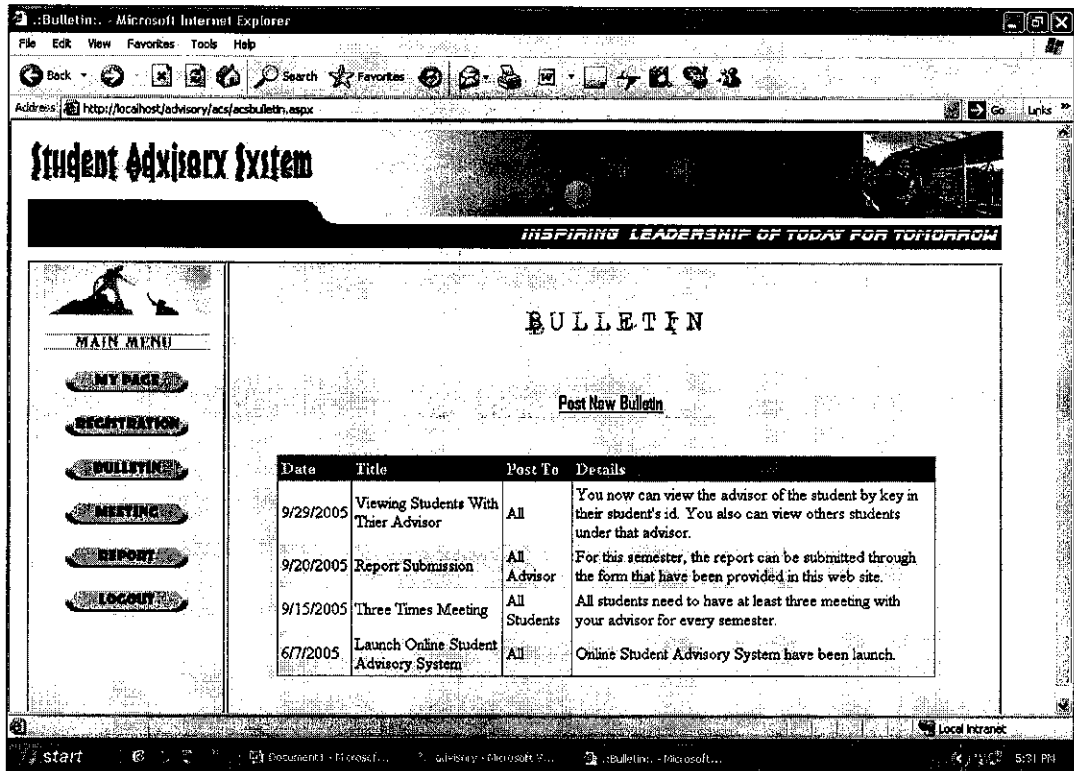
Recommendation: Need to be more confidence

Done

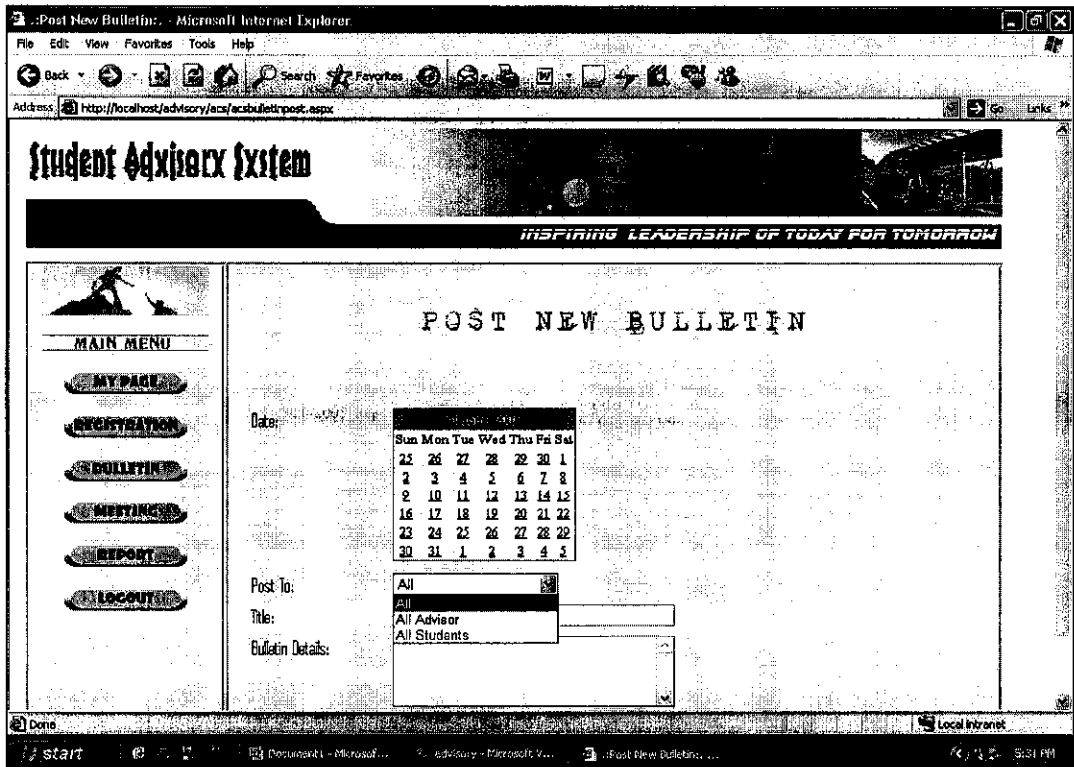
start Final Report ..Report Details... ..print screen - Microso...

Local Intranet 5:46 PM

Print Screen 12: Report Details Page



Print Screen 13: Bulletin Page



Print Screen 14: Bulletin Form

..Students.. - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Print Mail Stop

Address http://localhost/advisory/advisor/advsstudents.aspx

Student Advisary System

INSPIRING LEADERSHIP OF TODAY FOR TOMORROW

MAIN MENU

- [MY PAGE](#)
- [PROFILE](#)
- [STUDENTS](#)
- [MEETING](#)
- [MESSAGE](#)
- [REPORT](#)
- [LOGOUT](#)

MY STUDENTS

Student's Id	Name
3048	Norfazla Hashim
7430	Izzati Md Yunus
8763	Einadia Abd Rahim
8768	Fritz Chandra Vila
8770	Gulstiani Fuzuli

start Final Report print screen - Photos... advisory - Microsoft V... ..Students.. - Photos... Local Internet 5:58 PM

Print Screen 15: List of Student Page

..Student Main Page.. - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Print Mail Stop

Address http://localhost/advisory/student/studprofile.aspx

Student Advisary System

INSPIRING LEADERSHIP OF TODAY FOR TOMORROW

MAIN MENU

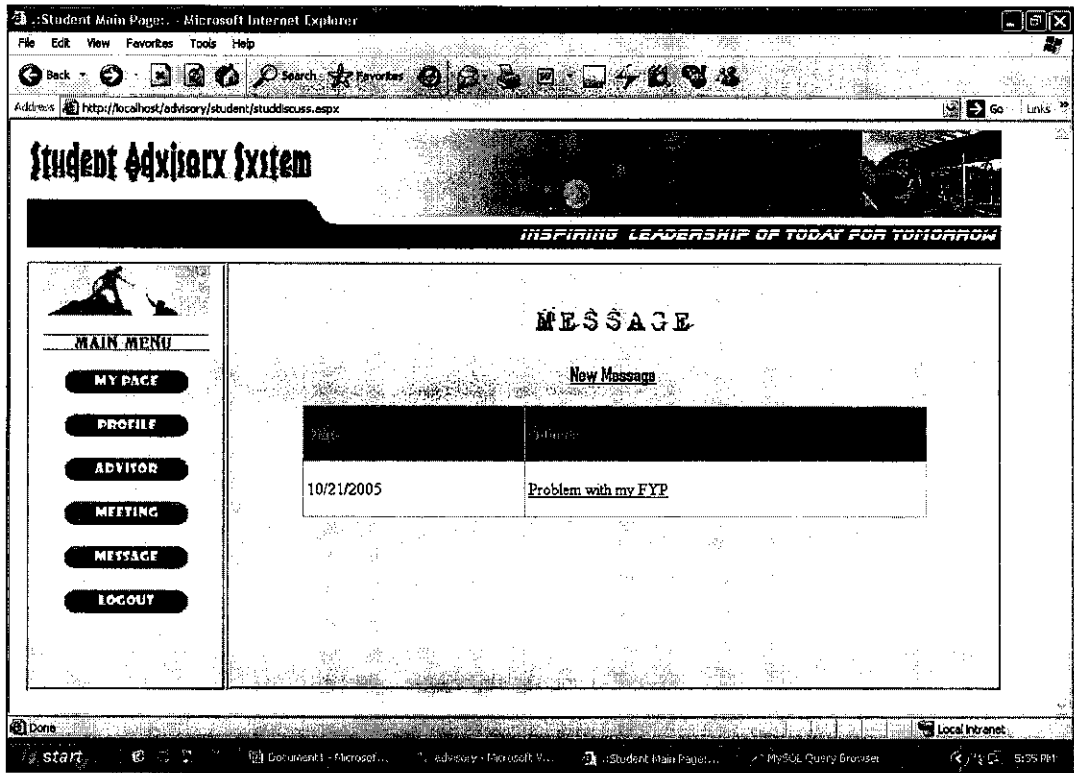
- [MY PAGE](#)
- [PROFILE](#)
- [ADVISOR](#)
- [MEETING](#)
- [MESSAGE](#)
- [LOGOUT](#)

MY PROFILE

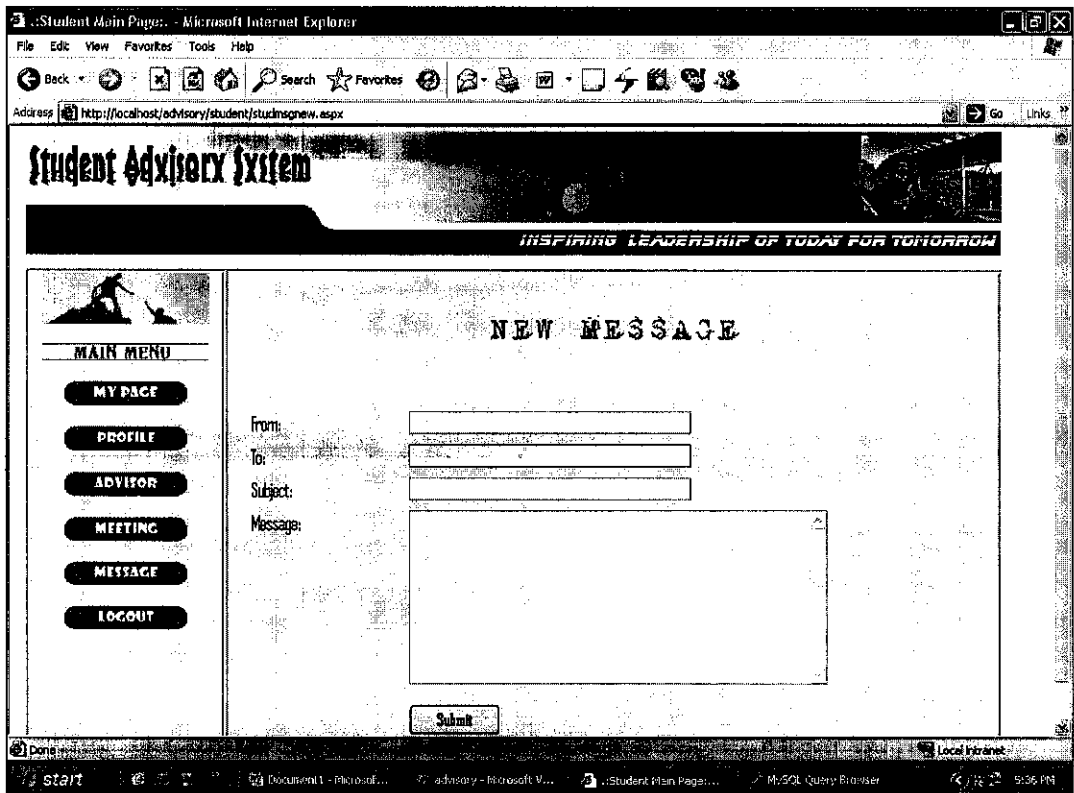
Name:	<input type="text" value="Norfazla Hashim"/>
Student's Id:	<input type="text" value="3048"/>
Intake:	<input type="text" value="May 2001"/>
Course:	<input type="text" value="IS"/>
H/p No:	<input type="text" value="0163612642"/>
Email:	<input type="text" value="ziekaade@yahoo.com"/>

start Document 1 - Microsof... advisory - Microsoft V... ..Student Main Page... Local Internet 5:59 PM

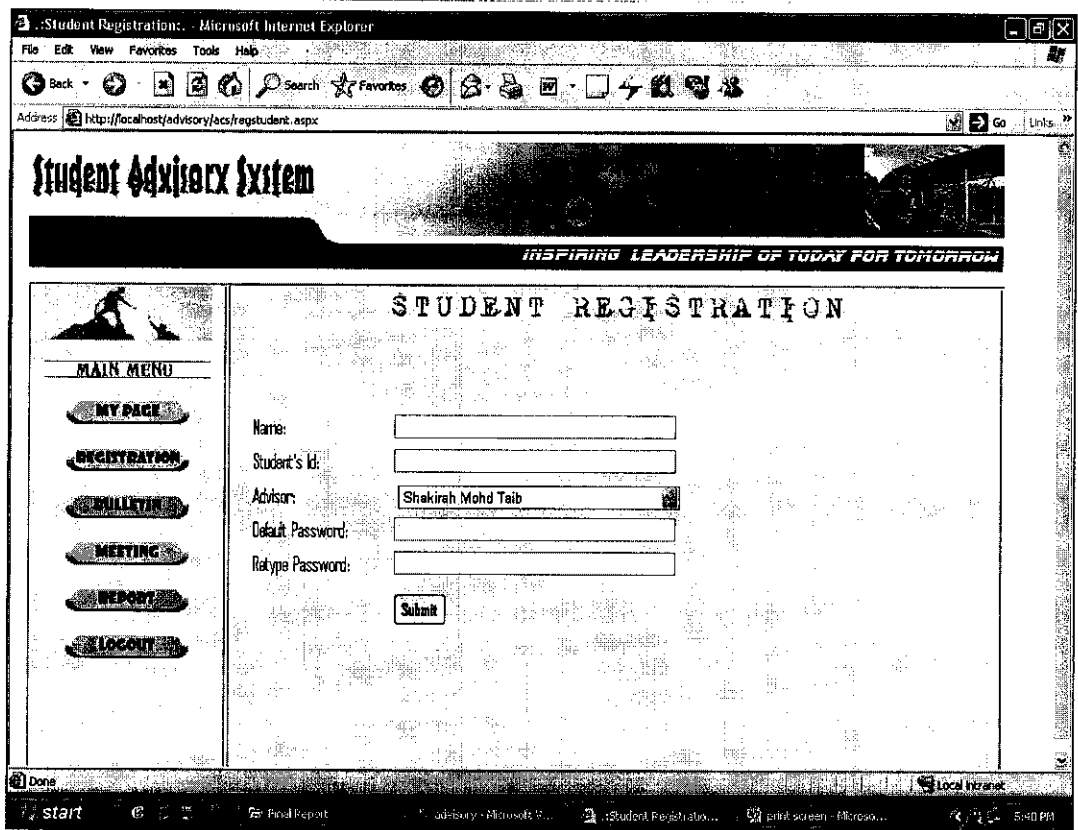
Print Screen 16: Update Profile Form



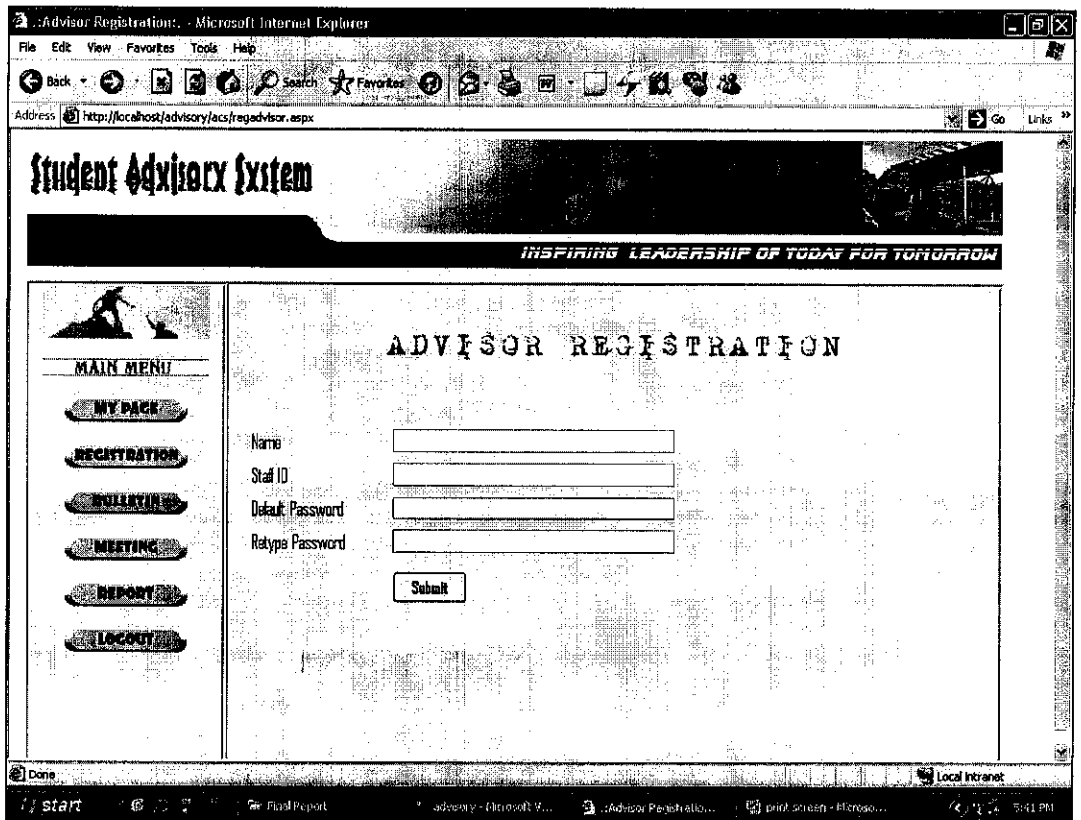
Print Screen 17: Message Page



Print Screen 18: Message Form



Print Screen 19: Student Registration Form



Print Screen 20: Advisor Registration Form

Evaluation Questionnaire: *Online Student Advisory System*

Section 1: Design, Layout, Content, Style and Colour

Are you satisfied with the website design based on these criteria? Indicate your answer in the area provided using the given ranking.

1 Strongly Dissatisfied	2 Somewhat Dissatisfied	3 Neither Satisfied Nor Dissatisfied	4 Somewhat Satisfied	5 Strongly Satisfied
--------------------------------------	--------------------------------------	---------------------------------------------------	-----------------------------------	-----------------------------------

- a. Text Colour _____
- b. Text Style _____
- c. Background Colour _____
- d. Colour Combination _____
- e. Layout _____
- f. Content _____
- g. Design _____

Section 2: Functionality and Effectiveness of the system

Indicate your level of agreement for the statement below in the area provided based on the rank given.

1 Strongly Disagree	2 Somewhat Disagree	3 Neither Agree Nor Disagree	4 Somewhat Agree	5 Strongly Agree
----------------------------------	----------------------------------	-------------------------------------------	-------------------------------	-------------------------------

- a. The online system is interesting and effective enough for enhancing user participation in *Online Student Advisory System*.

- b. The website can enhance interaction between student and advisor.

c. The online system can make the life of the Student Advisory System users which are as Academic Centre, advisor and students easier.

d. The online system can save advisor's and student's time as user do not have to waste time to regularly meet each other.

e. The online system is the best method for Academic Centre to keep track the participation and activities perform by the students and their advisor.

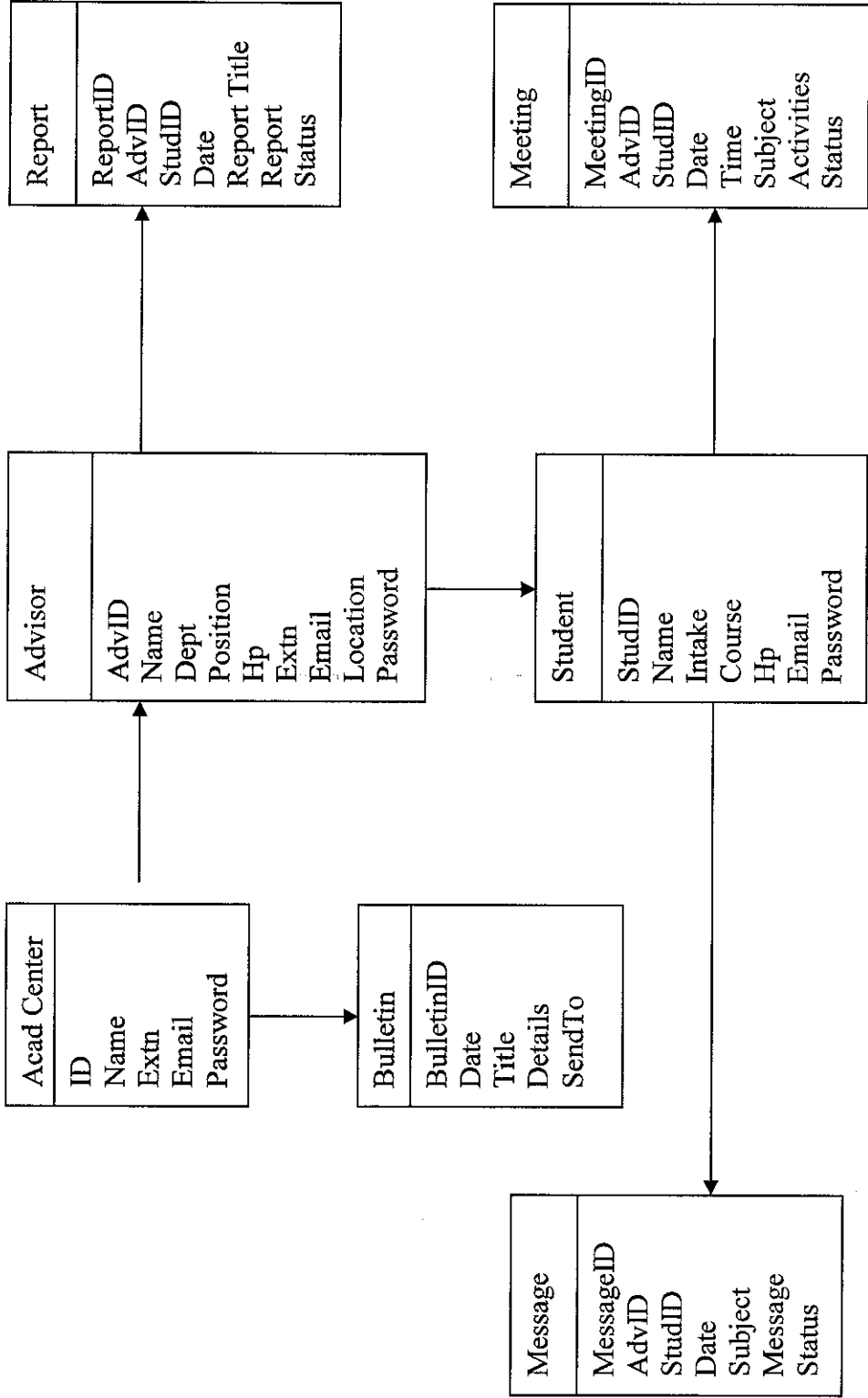
f. The alert that appear in the Academic Centre, advisor's and student's main page make the Online Student Advisory System effective enough in notify the user for new report being submitted, new meeting being set up and new message being posted.

g. Online report in the website is best method in submitting report compare to manually submit or submit thru email.

h. Online message is the best alternative for SMS between students and advisor due to most advisors did not want their hand phone number to be known by their students.

i. Overall, the online student advisory system is effective and efficient.

ENTITY RELATIONSHIP DIAGRAM (ERD)



Home

BANNER

Home
About
Search

Image

Login id: _____
Password: _____
[Login](#)

Bulletin Board

About

BANNER

Home
About
Search

Image

About...

Search

BANNER

Home
About
Search

Search By Student ID

Student's ID: _____ [Search](#)

Name: _____
Programme: _____
Advisor: _____

View Student Under This Advisor [View](#)

Student1
Student2
Student3

Academic Center

BANNER

My Page
Register
Bulletin
Meeting
Report
Logout

Welcome _____

Alert Box

Advisor Contact Details....

Advisor1	Email	Extension	Details
Advisor2	Email	Extension	Details
Advisor3	Email	Extension	Details

Academic Center Advisor's Details

BANNER

My Page
Register
Bulletin
Meeting
Report
Logout

Advisor Details

Name: _____
Staff Id: _____
Dept: _____
Extn: _____
Email: _____

Academic Center Register

BANNER

My Page
Register
Bulletin
Meeting
Report
Logout

[Register Advisor](#)
[Register Student](#)

List of Registered student....

Student1	Details
Student2	Details
Student3	Details

Academic Center Student's Details

BANNER

<p>My Page Register Bulletin Meeting Report Logout</p>	<p>Student Details</p> <p>Name: _____</p> <p>Student ID: _____</p> <p>Intake: _____</p> <p>Course: _____</p> <p>H/p: _____</p> <p>Email: _____</p>
----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------

Academic Center Register Advisor

BANNER

<p>My Page Register Bulletin Meeting Report Logout</p>	<p>Advisor's Registration.....</p> <p>Name: _____</p> <p>Staff ID: _____</p> <p>Default Password: _____</p> <p>Retype Password: _____</p> <p>Submit</p>
----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Academic Center Register Student

BANNER

<p>My Page Register Bulletin Meeting Report Logout</p>	<p>Students's Registration.....</p> <p>Name: _____</p> <p>Student ID: _____</p> <p>Advisor: _____ (Combo Box)</p> <p>Default Password: _____</p> <p>Retype Password: _____</p> <p>Submit</p>
----------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Academic Center Bulletin

BANNER

<p>My Page Register Bulletin Meeting Report Logout</p>	<p style="text-align: center;">Add New Bulletin</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Title</th> <th>Details</th> <th>Send To</th> </tr> </thead> <tbody> <tr> <td>21-04-05</td> <td>Bulletin1</td> <td>DetailsA</td> <td>All</td> </tr> <tr> <td>27-07-05</td> <td>Bulletin2</td> <td>DetailsB</td> <td>Advisor</td> </tr> </tbody> </table>	Date	Title	Details	Send To	21-04-05	Bulletin1	DetailsA	All	27-07-05	Bulletin2	DetailsB	Advisor
Date	Title	Details	Send To										
21-04-05	Bulletin1	DetailsA	All										
27-07-05	Bulletin2	DetailsB	Advisor										

Academic Center Bulletin (Add New)

BANNER

<p>My Page Register Bulletin Meeting Report Logout</p>	<p>Date: _____</p> <p>Post To: _____ (Combo Box)</p> <p>Title: _____</p> <p>Details: _____</p> <p>_____</p> <p>_____</p> <p>Submit</p>
----------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------

Academic Center View Meeting

BANNER

<p>My Page Register Bulletin Meeting Report Logout</p>	<table border="1"> <thead> <tr> <th>Date</th> <th>Subject</th> <th>Advisor</th> <th>Student</th> <th>Meeting</th> </tr> </thead> <tbody> <tr> <td>05-05-05</td> <td>SubjectA</td> <td>Advisor1</td> <td>Student1</td> <td>View</td> </tr> <tr> <td>06-06-05</td> <td>SubjectB</td> <td>Advisor2</td> <td>Student2</td> <td>View</td> </tr> <tr> <td>07-07-05</td> <td>SubjectC</td> <td>Advisor2</td> <td>Student3</td> <td>View</td> </tr> </tbody> </table>	Date	Subject	Advisor	Student	Meeting	05-05-05	SubjectA	Advisor1	Student1	View	06-06-05	SubjectB	Advisor2	Student2	View	07-07-05	SubjectC	Advisor2	Student3	View
Date	Subject	Advisor	Student	Meeting																	
05-05-05	SubjectA	Advisor1	Student1	View																	
06-06-05	SubjectB	Advisor2	Student2	View																	
07-07-05	SubjectC	Advisor2	Student3	View																	

Academic Center View Meeting Details

BANNER

<p>My Page Register Bulletin Meeting Report Logout</p>	<p>Advisor: _____ Student: _____ Date: _____ Time: _____ Subject: _____ Activities: _____ _____ _____</p>
----------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------

Academic Center Report

BANNER

<p>My Page Register Bulletin Meeting Report Logout</p>	<table border="1"> <thead> <tr> <th>Date</th> <th>Advisor</th> <th>Student</th> <th>Report Title</th> </tr> </thead> <tbody> <tr> <td>05-05-05</td> <td>Advisor1</td> <td>Student1</td> <td>View</td> </tr> <tr> <td>06-06-05</td> <td>Advisor2</td> <td>Student2</td> <td>View</td> </tr> <tr> <td>07-07-05</td> <td>Advisor2</td> <td>Student3</td> <td>View</td> </tr> </tbody> </table>	Date	Advisor	Student	Report Title	05-05-05	Advisor1	Student1	View	06-06-05	Advisor2	Student2	View	07-07-05	Advisor2	Student3	View
Date	Advisor	Student	Report Title														
05-05-05	Advisor1	Student1	View														
06-06-05	Advisor2	Student2	View														
07-07-05	Advisor2	Student3	View														

Academic Center Report Details

BANNER

<p>My Page Register Bulletin Meeting Report Logout</p>	<p>Advisor: _____ Student: _____ Date: _____ Semester: _____ Student Performance: _____ _____ _____</p> <p>Summary: _____ _____</p> <p>Recommendation: _____ _____</p>
----------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Advisor

BANNER

<p>My Page Profile Students Meeting Message Report Logout</p>	<p>Welcome _____</p> <div style="border: 1px solid black; width: 50px; height: 20px; margin-left: 100px; text-align: center;">Alert Box</div> <div style="border: 1px solid black; width: 150px; height: 50px; margin-left: 20px;">Bulletin Board....</div>
---------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Advisor Profile

BANNER

<p>My Page Profile Students Meeting Message Report Logout</p>	<p>Name: _____ ID: _____ Dept: _____ Position: _____ Office No: _____ H/P No: _____ Email: _____ Building: _____</p> <p>Edit Update</p>
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Advisor Students

BANNER

<p>My Page Profile Students Meeting Message Report Logout</p>	<table border="1"> <thead> <tr> <th>Student's Name</th> <th></th> </tr> </thead> <tbody> <tr> <td>Student1</td> <td>View</td> </tr> <tr> <td>Student2</td> <td>View</td> </tr> </tbody> </table>	Student's Name		Student1	View	Student2	View
Student's Name							
Student1	View						
Student2	View						

Advisor View Students (Details)

BANNER

<p>My Page Profile Students Meeting Message Report Logout</p>	<p>Name: _____</p> <p>ID: _____</p> <p>Intake: _____</p> <p>Course: _____</p> <p>H/p No: _____</p> <p>Email: _____</p>
---------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------

Advisor Meeting (View)

BANNER

<p>My Page Profile Students Meeting Message Report Logout</p>	<p>Set Meeting</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Student's Name</th> <th>Subject</th> <th>Activities</th> </tr> </thead> <tbody> <tr> <td>05-05-05</td> <td>2.00pm</td> <td>Student1</td> <td>SubjectA</td> <td>ActivityA</td> </tr> <tr> <td>06-06-05</td> <td>10.00am</td> <td>Student2</td> <td>SubjectB</td> <td>ActivityB</td> </tr> </tbody> </table>	Date	Time	Student's Name	Subject	Activities	05-05-05	2.00pm	Student1	SubjectA	ActivityA	06-06-05	10.00am	Student2	SubjectB	ActivityB
Date	Time	Student's Name	Subject	Activities												
05-05-05	2.00pm	Student1	SubjectA	ActivityA												
06-06-05	10.00am	Student2	SubjectB	ActivityB												

Advisor Set Meeting

BANNER

<p>My Page Profile Students Meeting Message Report Logout</p>	<p>Set Meeting</p> <p>Student's Name: _____ (Combo Box)</p> <p>Date: _____</p> <p>Time: _____</p> <p>Subject: _____</p> <p>Activities: _____</p> <p>_____</p> <p>Submit</p>
---------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Advisor Message

BANNER

<p>My Page Profile Students Meeting Message Report Logout</p>	<p>Add New Message</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Topic</th> <th>Student's Name</th> <th></th> </tr> </thead> <tbody> <tr> <td>05-05-05</td> <td>TopicX</td> <td>Student1</td> <td>View</td> </tr> <tr> <td>06-05-05</td> <td>TopicY</td> <td>Student2</td> <td>View</td> </tr> <tr> <td>07-08-05</td> <td>TopicZ</td> <td>Student2</td> <td>View</td> </tr> </tbody> </table>	Date	Topic	Student's Name		05-05-05	TopicX	Student1	View	06-05-05	TopicY	Student2	View	07-08-05	TopicZ	Student2	View
Date	Topic	Student's Name															
05-05-05	TopicX	Student1	View														
06-05-05	TopicY	Student2	View														
07-08-05	TopicZ	Student2	View														

Advisor Message (Add New)

BANNER

<p>My Page Profile Students Meeting Message Report Logout</p>	<p>From: _____</p> <p>To: _____ (Combo Box)</p> <p>Subject: _____</p> <p>Message: _____</p> <p>_____</p> <p>_____</p> <p>Submit</p>
---------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

Advisor Message Details

BANNER

<p>My Page Profile Students Meeting Message Report Logout</p>	<p>From: _____</p> <p>Subject: _____</p> <p>Message: _____</p> <p>_____</p> <p>_____</p> <p>Reply</p>
---------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------

Advisor Message Reply

BANNER

<p>My Page Profile Students Meeting Message Report Logout</p>	<p>To: _____ From: _____ Subject: <u>Re:</u> _____ Message: _____ _____ _____</p> <p style="text-align: center;">Submit</p>
---------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Advisor Report

BANNER

<p>My Page Profile Students Meeting Message Report Logout</p>	<p>Submit Report</p> <table border="1"> <thead> <tr> <th>Student's Name</th> <th>Report</th> </tr> </thead> <tbody> <tr> <td>Student1</td> <td style="text-align: center;">View</td> </tr> <tr> <td>Student2</td> <td style="text-align: center;">View</td> </tr> <tr> <td>Student3</td> <td style="text-align: center;">View</td> </tr> </tbody> </table>	Student's Name	Report	Student1	View	Student2	View	Student3	View
Student's Name	Report								
Student1	View								
Student2	View								
Student3	View								

Advisor Report (Submit)

BANNER

<p>My Page Profile Students Meeting Message Report Logout</p>	<p>Advisor: _____ Student: _____ Date: _____ Semester: _____ Student Performance: _____ _____ Summary: _____ _____ Recommendation: _____ _____ _____</p> <p style="text-align: center;">Submit</p>
---------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Advisor Report (View Details)

BANNER

<p>My Page Profile Students Meeting Message Report Logout</p>	<p>Advisor: _____ Student: _____ Date: _____ Semester: _____ Student Performance: _____ _____ Summary: _____ _____ Recommendation: _____ _____ _____</p>
---------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Student

BANNER

<p>My Page Profile Advisor Meeting Message Logout</p>	<p>Welcome _____</p> <div style="border: 1px solid black; width: 100px; height: 20px; margin-left: 150px; text-align: center;">Alert Box</div> <div style="border: 1px solid black; width: 150px; height: 50px; margin-top: 10px; margin-left: 20px;">Bulletin Board....</div>
---------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Student Profile

BANNER

<p>My Page Profile Advisor Meeting Message Logout</p>	<p>Name: _____ ID: _____ Intake: _____ Course: _____ H/p No: _____ Email: _____</p> <p style="text-align: center;">Edit Update</p>
---------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Student Advisor

BANNER

My Page Profile Advisor Meeting Message Logout	Name: _____
	ID: _____
	Dept: _____
	Position: _____
	Office No: _____
	H/P No: _____
	Email: _____
Building: _____	

Student Meeting

BANNER

My Page Profile Advisor Meeting Message Logout	<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Subject</th> <th>Activities</th> </tr> </thead> <tbody> <tr> <td>24-07-05</td> <td>3.30pm</td> <td>SubjectA</td> <td>ActivityA</td> </tr> <tr> <td>19-08-05</td> <td>8.45am</td> <td>SubjectB</td> <td>ActivityB</td> </tr> </tbody> </table>	Date	Time	Subject	Activities	24-07-05	3.30pm	SubjectA	ActivityA	19-08-05	8.45am	SubjectB	ActivityB
	Date	Time	Subject	Activities									
	24-07-05	3.30pm	SubjectA	ActivityA									
	19-08-05	8.45am	SubjectB	ActivityB									

Student Message

BANNER

My Page Profile Advisor Meeting Message Logout	<u>Add New Message</u>			
	Date	Topic	Details	
	24-07-05	Topic1	Details1	Reply
	19-08-05	Topic2	Details2	Reply
	24-08-05	Topic3	Details3	Reply

Student Message (Add New)

BANNER

My Page Profile Advisor Meeting Message Logout	From: _____
	To: _____
	Subject: _____
	Message: _____

Submit	

Student Message Details

BANNER

My Page Profile Advisor Meeting Message Logout	From: _____
	Subject: _____
	Message: _____

Reply	

Student Message Reply

BANNER

My Page Profile Advisor Meeting Message Logout	To: _____
	From: _____
	Subject: Re: _____
	Message: _____

Submit	

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Address D:\My Documents\Z_FYP\Presentation\index.html

ONLINE STUDENT ADVISORY SYSTEM

- INTRODUCTION
- PROBLEM STATEMENT
- OBJECTIVES
- SCOPE OF STUDY
- LITERATURE REVIEW
- METHODOLOGY
- TOOLS
- RESULT & DISCUSSION
- CONCLUSION

Final Year Project: Semester July 2005

ONLINE STUDENT ADVISORY SYSTEM



BY

ROSEZOLA HASSAN (00140)

ENGLISH INTERPRETATION SYSTEM

SUPERVISOR

MRS. CHINMAYAH MOHD SUKRI

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ONLINE STUDENT ADVISORY SYSTEM

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INTRODUCTION

The system being implemented based on the traditional online student advisory system with several features to better assist students to guide them.

The boundaries and main user scenarios are described and user interaction and navigation features are also described.

The system is designed to assist students to access their course information.

System Objectives

- Accessible (User-friendly and Management System)
- Efficient

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Final Year Project: Semester July 2005

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PROBLEM STATEMENT

Some of the problem related identified based on user requirements Online Student Advisory System are:

- Student will have difficulty in searching the information in the Online Student Advisory System
- Accessing the information is more difficult and not so easy to be accessed through the system used by the student.
- Some students have difficulty in accessing the information that is easily accessed through their advisors.
- Administrators will have more and better reports monthly by the Academic Advisor.
- Academic Advisor cannot have track the participation of the student and advisors and advisors when they have been accessed through the system.
- Some of the system become malfunction in system because and difficult in reporting the student's performance.

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OBJECTIVES

The objectives of this system are:

- To help in identifying the student advisors based on the advisor is available by tracking the academic performance Student Advisory System.
- To create an information system by utilizing the computer and internet system online.
- To create an efficient system by allowing the user to access the information easily online.
- To create a good and effective system by utilizing a well known object management system and programming language.

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SCOPE OF STUDY

Online System

Web based system that provide real time monitor about student advisory system and provide features such as login, registration, search and report system.

Monitoring Activities

- Available online can monitor the activities performed by the advisor and the students for every activity being done.

Admin System

- Admin is the one that will be responsible for the students and advisors.
- This will be for students and advisors.

Online Report

- Advisor submitting report online to available system.

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LITERATURE REVIEW

Monitoring System in Education

Monitoring system in education is a system that can monitor the activities of students and teachers in the classroom. This system can be used to monitor the progress of students and to identify areas where they need more help. It can also be used to monitor the effectiveness of teaching methods and to provide feedback to teachers.

Online System as the Best Method for Monitoring Progress

Online system is the best method for monitoring progress because it is easy to use and it can be used by anyone. It can be used to monitor the progress of students and to identify areas where they need more help. It can also be used to monitor the effectiveness of teaching methods and to provide feedback to teachers.

Monitoring System as a Solution to Educational Problems

Monitoring system is a solution to educational problems because it can help to identify areas where students need more help and to provide feedback to teachers. It can also be used to monitor the effectiveness of teaching methods and to provide feedback to teachers.

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METHODOLOGY

RAD methodology consists of three phases:

- 1. Requirement Planning Phase
- 2. User Design Phase
- 3. Construction Phase

```

graph TD
    A[Requirement Planning Phase] --> B[User Design Phase]
    B --> C[Construction Phase]
    
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TOOLS

The RAD methodology uses the following tools:

- 1. Microsoft Access
- 2. Microsoft Word
- 3. Microsoft Excel
- 4. Microsoft PowerPoint
- 5. Microsoft Project
- 6. Microsoft Visio
- 7. Microsoft FrontPage
- 8. Microsoft Internet Explorer
- 9. Microsoft Outlook
- 10. Microsoft WordPad
- 11. Microsoft Paint
- 12. Microsoft Notepad
- 13. Microsoft Calculator
- 14. Microsoft Paintbrush
- 15. Microsoft Word Viewer
- 16. Microsoft Excel Viewer
- 17. Microsoft PowerPoint Viewer
- 18. Microsoft Project Viewer
- 19. Microsoft Visio Viewer
- 20. Microsoft FrontPage Viewer
- 21. Microsoft Internet Explorer
- 22. Microsoft Outlook
- 23. Microsoft WordPad
- 24. Microsoft Paint
- 25. Microsoft Notepad
- 26. Microsoft Calculator
- 27. Microsoft Paintbrush
- 28. Microsoft Word Viewer
- 29. Microsoft Excel Viewer
- 30. Microsoft PowerPoint Viewer
- 31. Microsoft Project Viewer
- 32. Microsoft Visio Viewer
- 33. Microsoft FrontPage Viewer
- 34. Microsoft Internet Explorer
- 35. Microsoft Outlook
- 36. Microsoft WordPad
- 37. Microsoft Paint
- 38. Microsoft Notepad
- 39. Microsoft Calculator
- 40. Microsoft Paintbrush
- 41. Microsoft Word Viewer
- 42. Microsoft Excel Viewer
- 43. Microsoft PowerPoint Viewer
- 44. Microsoft Project Viewer
- 45. Microsoft Visio Viewer
- 46. Microsoft FrontPage Viewer
- 47. Microsoft Internet Explorer
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- 68. Microsoft Excel Viewer
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- 70. Microsoft Project Viewer
- 71. Microsoft Visio Viewer
- 72. Microsoft FrontPage Viewer
- 73. Microsoft Internet Explorer
- 74. Microsoft Outlook
- 75. Microsoft WordPad
- 76. Microsoft Paint
- 77. Microsoft Notepad
- 78. Microsoft Calculator
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- 81. Microsoft Excel Viewer
- 82. Microsoft PowerPoint Viewer
- 83. Microsoft Project Viewer
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- 90. Microsoft Notepad
- 91. Microsoft Calculator
- 92. Microsoft Paintbrush
- 93. Microsoft Word Viewer
- 94. Microsoft Excel Viewer
- 95. Microsoft PowerPoint Viewer
- 96. Microsoft Project Viewer
- 97. Microsoft Visio Viewer
- 98. Microsoft FrontPage Viewer
- 99. Microsoft Internet Explorer
- 100. Microsoft Outlook

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PROBLEM STATEMENT

The Student Advisory System Evaluation

High users rate the system and below the 50 highest scores are returned.

Each of the users in this study has about 100 hours and has the ability to conduct an evaluation.

Each of the students is given a set of instructions to follow.

The characteristics of the system are discussed below.

The study focuses on the user satisfaction on the system. The objectives were to determine the user satisfaction in using the system. Factors such as user control, interface, navigation, and layout were also considered.

The second section is the evaluation of the Student Advisory System. Responses were used to determine the level of satisfaction on the system. The results are as follows:

Done My Computer

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USER SATISFACTION ON THE DESIGN

Color and Style Evaluation

Satisfaction Level	Total Color	Total Style	Background Color	Color Combination
Strongly Dissatisfied	0	0	0	0
Somewhat Dissatisfied	2	1	1	1
Neither Dissatisfied nor Satisfied	3	3	3	3
Somewhat Satisfied	6	5	5	5
Strongly Satisfied	1	1	1	1

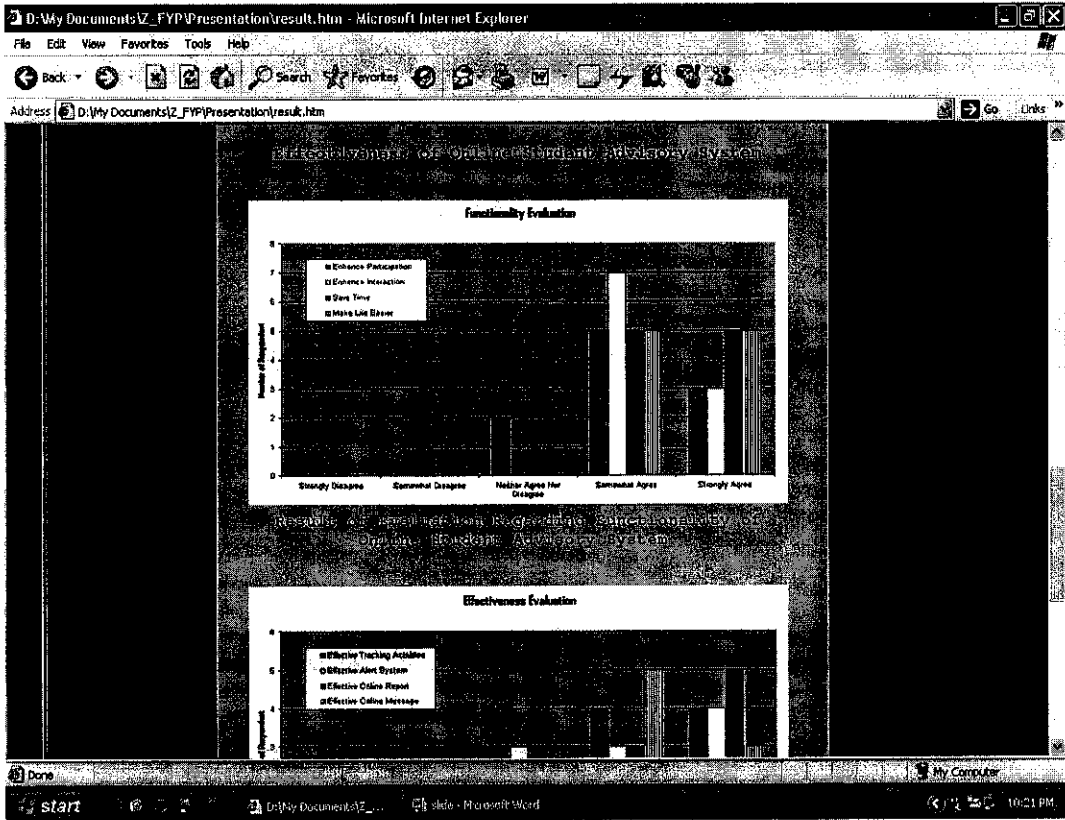
LEVEL OF EVALUATION RESEARCHING UNDER STYLE, COLOR, COMBINATION, BACKGROUND COLOR AND COLOR COMBINATION.

Design, Content and Layout Evaluation

Satisfaction Level	Design	Content	Layout
Strongly Dissatisfied	0	0	0
Somewhat Dissatisfied	1	1	1
Neither Dissatisfied nor Satisfied	2	2	2
Somewhat Satisfied	3	3	3
Strongly Satisfied	1	1	1

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ONLINE STUDENT ADVISORY SYSTEM

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- CONCLUSION

CONCLUSION

Conclusion

As the projects reach towards the end, the progress and growth have been achieved. User's acceptance, effectiveness and effectiveness of the system are being monitored during the development.

During the process, it is concluded that, when the system is used as an Online Student Advisory System, the problem facing student in problem statement and identification will be overcome as well as other many advantages to the user.

Recommendation

In this project, we have made the system effective and successful. The system is recommended to be used when Google's Recommendation Unit, user input and feedback are used in the system. It is recommended that in this system, the system needed by students can be effectively used.

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