

STUDENT REGISTRATION MANAGEMENT SYSTEM (SRM)

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**Faculty of Computer System & Software Engineering
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ABSTRACT

Development in the world of computer technology nowadays introduced different new method that is useful towards individual. The computer is getting more important in all different fields and our life in this decade. In conjunction to it, a redesign system will be developing to equip the system now. Student registration management system will be developing to help student to register in any college without wasting time to filling form manually. This system also will help marketing department of Kolej Teknologi Timur to ease their work on registering new student to the database. This system was developed online and it's using software like Macromedia Dreamweaver MX and Microsoft Access 2003.

ABSTRAK

Perkembangan dalam dunia teknologi komputer pada masa kini telah memperkenalkan pelbagai kaedah baru yang bermanfaat kepada individu. Penggunaan komputer semakin penting dalam pelbagai bidang dan kehidupan kita di alaf baru ini. Ekoran dari itu, sistem yang baru akan diibangunkan bagi menggantikan sistem yang lama. Sistem Pendaftaran Pelajar akan dibangunkan untuk membantu pelajar mendaftar di Kolej-Kolej tanpa perlu mengisi borang secara manual. Sistem ini juga membantu pihak pemasaran memudahkan kerja-kerja pendaftaran pelajar. Sistem ini dibangunkan secara atas talian dengan menggunakan perisian seperti Macromedia Dreamweaver MX dan Microsoft Access 2003.

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ABBREVIATIONS

SRM	-	Student Registration Management
ASP	-	Active Server Page
KTT	-	Kolej Teknologi Timur
KUKTEM	-	Kolej Universiti Kejuruteraan & Teknologi Malaysia
DFD	-	Data Flow Diagram
Db	-	Database

CHAPTER 1

INTRODUCTION

1.1 Introduction

Internet is recognized to be a communication facility that have been used world wide and enlarge in this country. As a facility, every company are advertising and marketing their company's product, facilities and even their profession through the internet. More over, studies institutions are also using the internet to promote and marketing their college and institution for students to register at their college. Kolej Teknologi Timur (KTT) in Sepang, has a system to manage student's registration process online for anyone that interested to furthering their studies in KTT. Even though, this college has an existing system to manage their student registration, this system needed to be enhanced and redesign to improve its performance.

A redesign system named 'Student Registration Management (SRM)' is a new design of improvement for the existing system in Kolej Teknologi Timur (KTT), Sepang. This system has giving a breath and new ideas towards advance programming language which is Decision Support System. SRM is design to be more interactive, secure and mature to manage the registration process. There are three users for this system, which are students, administrators and super administrator. Due to the survey of openhanded questionnaire, there are some amendment and adjoin should be done to the system. The existing course should be improved and some adjustment may cause an increasing numbers to student registration in this particular college.

SRM will be conducted by the marketing department which is the administrator of student registration in this college. Marketing department staffs of KTT are responsible to approve student's registration in KTT and which course the student should be considered. By enhancing and redesigning the previous system, marketing staff are facilitating with a decision support system to assemble which course should be considered to the students.

Besides, students can decide courses offered in the college that suits them by comparing to their result. This will help students to apply for this college in an efficient way and faster without to waste time completing so many forms manually. At first, students need to register before proceed to the application form. After completing the registration forms, a pin number that act as an id, will be given to them. Then, student will need to login the system to register the application form and choose three suitable courses that suit them. This system will analyze the data and decide which courses really suit register based on the SPM result and the final decision will be confirmed by the system administrator. This program will ease jobs of managerial department in processing appliers' application forms. Besides, base on the questionnaire, there should be some adjustment to done to the database system, because it is mention to be disorders.

1.2 Problem Statement

Student Registration Management System is considered to overcome the existing problems and disorders of registration system in KTT. The existing registration system in KTT has been interviewed in openhanded question and response by the users is notable that the system really need to redesign and improved. Problems that exist in the system are as stated below.

The current system is reported to lose their information of students that registered in the college. It means that the data is not secure and may be lose anytime. It is also reported that student registration data are only available for three

days before it disappeared. This will cause a total loss to KTT where interested students, lost without a trace. A restricted area of page should be done and a password will help to strengthen the robustness of the system and security area of the data.

The current system burdens the administrator to assemble the right course for the students manually. By adding new functions to the system, the administrator of the system can assign the suitable course for registered students and then the student can just view the result of their application. This system fastens marketing department work by configuring hundreds of forms to be done automatically and faster.

Based on the questionnaire given to the marketing department, the current system seems to be not very satisfied by the user because the design is too simple and has no colors at all. Interactive features are not added and interaction between system and user is low.

1.3 Objective

Student Registration Management (SRM) purposely is to help organize student's registration in Kolej Teknologi Timur (KTT) and as an effective way of using internet to attract students to register in this college. This system is deliberately to enhance the existing system and improve it to be more robust and secure. The objectives of Student Registration Management are stated as below:

- i. To improve security access and restricted area level by using rule set command to avoid outsiders to easily login to the restricted area of the system.
- ii. To help super administrator to decide suitable course for registered student by using rule set command.
- iii. To design interactive graphics and user-friendly system to contented user by adding multimedia flash and pop-up messages.

1.4 Scope

The main scopes of Student Registration Management (SRM) are the user of internet, which can be anyone who is interested in furthering studies in Kolej Teknologi Timur (KTT), Sepang and specific scopes are as below:

- i. There are three user's of this system which are, super administrator, administrator and user.
- ii. Administrator and super administrator of SRM is marketing staff of KTT who manage student's intake.
- iii. Perform registration of application process in KTT for a new student.
- iv. Develop system by using ASP VBScript and Microsoft Access 2003.

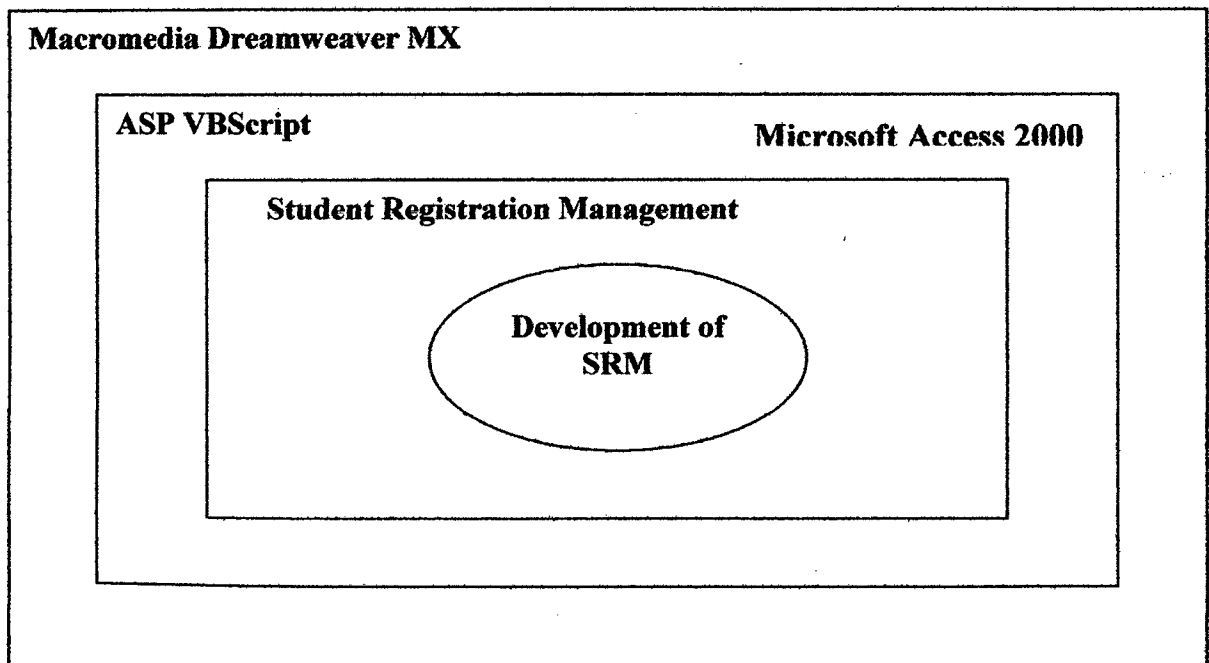


Figure 1.1: Illustration of Development of Student Registration Management (SRM) System

CHAPTER 2

LITERATURE STUDY

2.1 Literature Review

This chapter elaborates the basis of the existing registration system in Kolej Teknologi Timur (KTT) until the depth path of the problems arises. Reference have been made from various technical paper related to registration system existed in various institutions and colleges. Besides, in getting stronger and specific result of this research, an openhanded questionnaire has been made for the marketing department of KTT and a set of graph has been produced as a result.

2.2 Registration

Registration meaning in terms of computer technology is identifying oneself. Various Web sites offer free news, information and other services, but require answers to several questions in return. As a result, the publisher of the site is able to derive demographics about its audience in order to target ads and services that make the site profitable. Registration is required to get feedback from user and to adjust a continuous interaction by storing available data of oneself.

2.3 Related Work of Student Registration System

Researches have been made on existing registration system, such as Student Prospector Student Registration System, Provider Reporting System (PRS) Student Registration System, and Carnegie Mellon Revolutionized Student Registration Process. Based on research, student registration process required a computerized system to replace the manual system. Manual system are not effective which require student to fill in forms, post the document needed, pay for the stamps, pay for the forms and many more hard work. By using computerized system, student needs to surf the internet and get through the web.

2.3.1 Student Prospector Registration System

Student Prospector Registration System [5] is a system that been developed and advertised in the internet for sale. Student Prospector shows their product in the internet to attract studies institutions and colleges to buy the system. A registration system are said to ease the job of management officer and student data are kept systematically and easy to access. The system starting form the GradSchools.com homepage, students can choose to "Create a Student Profile" from the left navigation menu. After clicking "Create a Student Profile", prospective students are directed to the StudentProspector registration system.

GradSchools.com
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Earn Your MBA Entirely On™
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Curriculum of the Month
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 Learn all about studying and careers in the field of Kinestology throughout the month of December and visit our sponsoring programs to learn more about their graduate program offerings.

58,436 Graduate Program Listings as of December 1, 2004 and growing daily!


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roses.edu
 Welcome our latest graduate school adviser:
 Vanderbilt University

Paying for Graduate School? Get help. **Access Group**

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Figure 2.1: Main Page of GradSchools.com

This page (figure 2.2) is designed to tell the student the benefits of registering with the StudentProspector system through GradSchools.com. If students are already registered with GradSchools.com and StudentProspector, they can log in from here. Figure 2.3 is the first step in the registration process. On this screen student will enter their name, mailing address, email address, citizenship status, and what type of degree and field they interested in.



GradSchools.com

The most comprehensive online source of graduate school information

[GradSchools.com Home](#) | [Search for Programs](#) | [Information Center](#) | [Administrators Update Options](#) | [Advertiser Query](#)

Why should you create a student profile?

With a GradSchools.com student profile, you can:


- **Send faster inquiries to schools**
When you create a student profile on GradSchools.com, you will have the ability to send your contact information to your preferred schools with a simple mouse click. No more like-the-oh-oh, tab, tab-and-repeat-over-and-over again. Not only will you be able to use the information repeatedly, you will be able to personalize your message as well.
- **Allow recruiters to find you!**
Creating a profile on GradSchools.com is like creating a profile on Monster.com or CareerBuilder.com. You can choose to make your information available to recruiters or you can choose to make your information private. Either way, you are cutting down on the work you have to do to find the right school for you!
- **View a record of your inquiries**
When doing a thorough search for the perfect graduate school, it is easy to forget from which schools you requested information. Creating a GradSchools.com profile eliminates needing to write down what schools you contacted by recording the school name, date, time and what material you requested. No more sticky notes all over your computer monitor!
- **View Premium Content**
An added benefit of creating a GradSchools.com profile is the ability to view premium content in our archives. We have a number of useful articles located here, ranging in topic from thesis writing to brandaided to the benefits of joining a professional organization.

What are you waiting for? Create your GradSchools.com student profile today!

[Click Here to Create a Profile!](#)

If you need to update your profile [click here](#).

If you would like to see the results of our recent GradSchools.com StudentProspector Book Contest, [click here](#).



Paying for Graduate School?
Get help.





Figure 2.2: Benefits of StudentProspectus



GradSchools.com

The most comprehensive online source of graduate school information

[GradSchools.com Home](#) | [Search for Programs](#) | [Information Center](#) | [Administrators Update Options](#) | [Advertiser Query](#)

Get Recruited - Create a student profile!

Allow educational recruiters to find you when they search the GradSchools.com/StudentProspector Database. A growing number of schools are searching for specific types of candidates and offering them special incentives to attend their schools. By registering, you will put your profile in front of these motivated recruiters. Storing your profile also allows you to quickly and easily send inquiries to schools when you utilize the GradSchools.com directories. Registration is FREE for students.

[Click here](#) if you have already registered.

[Privacy Policy](#)

Please input a valid E-mail Address. A valid E-Mail Address is needed if you want schools to be able to contact you. Please note that your Login name will be your email address.

Your E-mail Address:

Confirm Your E-mail Address:

Your Name: Last First

Country of Citizenship: * Select a Country

Street Address:

City:

State: United States only

State/Province: Non-USA only

Zip/Postal Code:

Country of Residence: * Select One

Geographical Preference for study location: * Select One

Type of Degree Sought: * Select One

Field of Study: * Select One

Specific area of Interest in Field of study:

Intended Start Date: Year: (Ex. 2004)

(Select a Semester and input a year) Select One Year

Full or Part-time Study: Full Time Part Time

Race/Ethnicity: * Select One Gender: * Select One

Instructional Delivery Method: * No Preference

* Required fields are noted with a red asterisk.

Figure 2.3: First Form

In Step Two, student can choose their unique user password for the StudentProspector system as well as additional options for receiving notifications. Once they have completed this step, they are finished with the basic registration process. Student will be taken to this site, where they have the option to edit their profile to add additional information, allowing for schools to search their more detailed information for a better match.

GRADSCHOOLS.COM
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STEP 2 of 2

Please do not use special characters in your password.

Password:

Confirm Password:

Registration Options

I do not want my profile made available to other schools other than the ones I select during my visit to **GradSchools.com**

I only want my profile made available to all schools.

I want my profile made available to all schools and any related service providers. (Ex. test preps, loans, etc.)

Newsletter Options

GradSchools.com currently offers two free email newsletters - a general graduate school newsletter and a newsletter specific to those interested in graduate school in Nursing. Please select which, if any, newsletters you are interested in receiving.

General

Nursing

Please select the format you would like your newsletter to be delivered:

Text

HTML

*Required fields are noted with a red asterisk.

Figure 2.4: Unique user password

GradSchools.com
The most comprehensive online source of graduate school information

GradSchools.com Home | Search for Programs | Information Center | Administrators Update Listings | Advertise Here

Registered User Menu

Congratulations! Your Profile has been created!
You can reuse this profile at any time to send inquiries.
[Click here](#), to continue searching.

Edit Profile	Edit and add to the details of your student profile
View History	Review your inquiry history including what schools you have submitted inquiries to
Account Preferences	Change your Login Name, Password, Privacy Settings and Newsletter Preferences
View Premium Content	Read articles related to Grad School Admissions which are only available to registered users
GradSchools.com Home Page	Visit the GradSchools.com Home Page
Privacy Policy	Review our Privacy Statement
Delete Profile	Click here to permanently delete your profile

Paying for Graduate School? Get help. **access group.**

Students: [Browse to be Recruited with GradSchools.com](#) | [GradSchools.com Express News](#) | [Graduate School Handbook](#) | [Financial Aid Information](#) | [Student Center](#) | [GradSchools.com List Price Center](#) | [Domestic Graduate Schools](#) | [Postgraduate Your Student Profile](#) | [GradSchools.com Information Center](#) | [GRE - Online Practice Test](#) | [SAT - Online Practice Test](#) | [SAT - Online Practice Test](#) | [GRE - Online Practice Test](#) | [GRE - Online Practice Test](#) | [GRE - Online Practice Test](#)

Administrators: [Add or Update Programs with General Utilities](#) | [Advertise Your Program with GradSchools.com](#) | [Who we are](#) | [Who we're not](#) | [Who we're the best](#)

Figure 2.5: Edit Profile

This next screen is where student can provide additional information, such as birth date and phone number as well as their country of citizenship. Figure 2.7 screen is available for those prospective students who are not living at their permanent address, usually students currently in school. By filling in their permanent address, they are assured to receive mail from schools interested.

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STEP 1 of 4

Your Last Name/Family Name:

Your First Name:

Your Birth Date (MM/DD/YYYY):

Your Primary Phone Number (Include area code/ country code):

Race/Ethnicity:

Gender:

Country of Citizenship:

If not a US Citizen, what is your status?

[Step 2](#)

*Required fields are noted with a red asterisk.

Paying for Graduate School? Get help.

Students: [How to be Recruited with GradSchools.com](#) | [GradSchools.com Career Panel](#) | [Graduate School Applications](#) | [Financial Aid Information](#) | [Admission Center](#) | [Graduate School Essay Prompts](#) | [Process of Graduate Admission](#) | [How to Apply for Graduate School](#) | [GradSchools.com Information Center](#) | [FAQ - Common Questions](#) | [What is a Graduate Degree?](#) | [M.A. - Online Programs List](#) | [M.S. - Online Programs List](#) | [Ph.D. - Online Programs List](#)

Administrators: [Add or Update Programs with General Listings](#) | [Advertise Your Program With GradSchools.com](#) | [Who We Are](#) | [The Advantages of the Job](#) | [How to Apply for the Job](#)

Contact Us: [View as a Partner](#) | [Contact Schools](#) | [Email Webmaster@gradschools.com](#) | [Email Advertiser@gradschools.com](#) | [Feedback with FQA](#) | [FAQ](#)

Figure 2.6: Second Form

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[Privacy Policy](#)

If you are a US Citizen, but not a permanent resident, [click here](#).

Step 2 of 4

Your Current Postal Address

Street Address:

City:

State: * **United States residents only**

State/Province: **Non-USA residents only**

Zip/Postal Code:

Country:

Your Permanent Postal Address

Street Address:

City:

State: * **United States only**


Zip/Postal Code:

Country:

[Step 3](#)

*Required fields are noted with a red asterisk.

Figure 2.7: Third Form



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STEP 4 of 4

Undergraduate Information

Name of Institution:

City:

State: *United States only*

State/Province: *Non-USA only*

Country:

Degree:

Major/Field of Study:

Date of Graduation (MM/YYYY):

Overall GPA (on a scale of 4.00, i.e. 3.20):

GPA of Major (on a scale of 4.00, i.e. 3.20):

Graduate/Professional Information

Graduate/Professional degree earned:

Degree Field:

Name of Institution:

Graduation Date (MM/YYYY):

Research/Work Experience

Name of Organization:

Job/Position Title:

City:

State: *United States only*

State/Province: *Non-USA only*

Country:

Dates Participated (MM/YYYY): to

Name of Organization:

Job/Position Title:

City:

State: *United States only*

State/Province: *Non-USA only*

Country:

Dates Participated (MM/YYYY): to

Name of Organization:

Job/Position Title:

City:

State: *United States only*

State/Province: *Non-USA only*

Country:

Dates Participated (MM/YYYY): to

*Required fields are noted with a red asterisk.

[Delete Profile](#)

Figure 2.9: Fifth Form

Once they have finished the last screen, they are back to the main registered student menu on GradSchools.com. This system is easy to use and the user session registration are inspire to be apply in the new design of Student Registration Management System in Kolej Teknologi Timur (KTT), Sepang.

2.3.2 Carnegie Mellon Revolutionized Student Registration Process

Recognized as a pioneer in the use of computing in education, Carnegie Mellon University (CMU) in Pittsburgh, Pennsylvania [4] offers degrees in several technical fields including engineering, computer science, technology and science. Its "Andrew" computing network, named for benefactors Andrew Carnegie and Andrew Mellon, is among the most advanced on any campus today. However, until recently the school's antiquated and cumbersome enrollment process was one of the top frustrations for the school's 3,000 graduate and 4,500 undergraduate students.

Five years ago CMU surveyed its students to see what the institution could do to improve student satisfaction. The response was unanimous: fix the school's enrollment process. To get the classes they wanted, students would camp out overnight to be first in line. Then they would spend an entire day walking from one department to another to register for classes. The worst part, according to Martha Baron, director of information services at CMU, was that students felt the system was unfair. They wanted a consistency in the process. They wanted the same rules for everyone." They were also embarrassed that Carnegie Mellon, home to one of the world's best computer science departments, was still using a paper enrollment system.

Thus, CMU embarked on a project to replace the old enrollment system with a solution they now call OLR or OnLine Registration.