

**DESIGN AND DEVELOPMENT OF A WEB BASED STUDENT
ACADEMIC ADVISING SYSTEM**

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**RESEARCH PROJECT SUBMITTED TO THE DEPARTMENT OF COMPUTER
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UNIVERSITY OF BENIN , BENIN CITY.**

SEPTEMBER, 2023

DECLARATION

I, OMOLEME OSEMUDIAME MICHAEL do hereby declare that this project was based on the study undertaken by me in the department of computer science, faculty of physical sciences, university of Benin, Benin city, under the supervision of Dr, (Mrs) A R.Usiobaifo. This work had not been previously submitted for the award of Bachelor of Science Degree in computer science, to the best of my knowledge. All ideas and view are product of my personal research; and were the view of other been expressed, have been dully acknowledge.

OMOLEME OSEMUDIAME MICHAEL

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DATE

CERTIFICATION

We, the undersigned certify that this research work is carry out by **OMOLEME OSEMUDIAME MICHAEL (PSC1604084)** of the Department of Computer Science, Faculty of Physical Sciences, university of Benin, Benin City and the work is adequate in scope and quality in partial fulfillment of the requirements for the award of B.Sc Degree in computer science, Faculty of physical science, university of Benin city, Nigeria.

Dr. (Mrs) USIOBAIFO
(Project Supervisor)

Dr. (Mrs) USIOBAIFO
(Project Coordinator)

DATE

DATE

APPROVAL

This is to certify that the project work was carried out by **OMOLEME OSEMUDIAME MICHAEL** with Matriculation Number **PSC1604084** in the Department of Computer Science,, faculty of Physical sciences, University of Benin, Benin city and that the research project was approved as adequate in scope and quality for the partial fulfillment of the award of the Bachelor of science Degree as Computer science.

PROF. (MRS) A.O. EGWALI

(HEAD OF DEPARTMENT)

DATE

DEDICATION

This project is dedicated to God Almighty for His endless love, infinite mercies and protection upon the researcher life including Well smart's family during my period of academic pursuit in the University of Benin.

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I give glory to God, my defender, who gave me the strength to go through this rigorous academic undertaking and also gave me life and good health in abundance throughout my course of study in the University of Benin.

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I would like to express my heart-felt gratitude to every member of my family most especially my parents Mr and Mrs Omoleme, I also want to appreciate my siblings. I am deeply grateful for your unending spiritual and emotional support you have always shown

Great is the faithfulness of God upon my life who perfect all things in his own time and that of my amazing friends Victor, Pedro etc thank you for being kind, may your so shine unto the bright day.

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ABSTRACT

Student academic advising is very important for development of students in different institutions of learning but it always involves a time-consuming effort when the traditional system is employed. A web based academic advising system has been implemented in this study in order to solve the issues between students and the academic advisers, by making advising more convenient, taking complaint from students, evaluating and generating reports, suggesting possible answers to the students' questions. The researcher surveyed the existing procedures as utilized by many institutions and then implemented a computerized solution in order to enhance their overall advising experience. The researcher presented an outline of the design and implementation of a computerized e-Academic Advising System as a web-based application. The researcher built a model that the academic staff can access to follow-up the students' complaints and suggestions. Also, the students can register academic complaints, seek advice and more from the system. The e-Academic advising web-based system is developed and implemented with HTML, CSS and "PHP" as a Web framework which runs via the structured query language (SQL) as a Database engine

CHAPTER ONE

1.0 INTRODUCTION

Student Academic advising is an important and time-consuming task and different tools and techniques can be used to make it an effective and efficient process. Most of the process, however, relies on personal interactions between students and counsellors, which leads to problems such as inconsistencies among different advisors and poor utilization of resources, since very often a good portion of the advisors' time is spent answering recurrent questions and solving trivial class scheduling problems. In addition to hiring new faculty to take charge of the undergraduate advising tasks, the department also welcomed innovative ideas that could help improving the efficiency of the advising process.

1.1 BACKGROUND OF THE STUDY

Academic advising or counselling is said to be key to student success and academic achievements. The present academic advising method vary considerably and little is known about it productivity and effectiveness. These days, with the increase in poor academic performance by students in the current educational environment, strong academic advising system is an essential ingredient to improve students' academy success, support the present advice system aimed at productive and efficient learning. Academic advising is an important key and activity of an academic

institution. It provides guidelines and counsel to students to explore future careers paths, academic disciplines and other challenges accompanied with peer pressure. An automated, accurate and full functional advising system can be an effective tool for both students and academic advisors. The complex nature of academic syllabus, especially with recent changes in academic to general education and other degree requirements, this challenges poses a continuous challenge to faculty advisors to remain up-to-date. Academic counselling plays a vital role in creating an enabling educational environment for academic institution students. Furthermore, faculty advisers find it difficult cause the process is time consuming for academic advisors especially with the dynamic nature of combing other school activities with counselling. Despite these challenges, academic counsellors always try their very best to offer accurate, up-to-date and consistent advising information to their students.

Therefore, with the advancement in technology, there is a need to improve the educational counselling system, surely there is a need to advance even faster than the manual procedure. Since it affects a large percentage of students from different academic disciple. With the computerized system, they would be a great improvement in student academic performance, as the system will acts as a bridge to help bring better information to students and improve academic skill.

1.2 STATEMENT OF THE PROBLEM

The Current method of giving counsel to students entails a lot of paper work and documentation, which sometimes leads to loss or damage, this traditional method depend greatly on the effort of the advisers to find the best counsel and suggestions to improve students' academic performance. In institutions with large amount of students, academic advising is time-consuming and the only means to improve the way counsel is given to students is to implement an automated system that will make the process successfully and efficient.

There is a need for a computerized system that can give advice and offers immediate counselling to a large number of students at the same time, anytime any day. In the research, we outline a smart system, the system will assist students in improving their academic performance by giving academic advice relating to courses, students' personal issues that meet their current needs and overall improve their academic performance.

1.3 AIM OF THE STUDY

The primary aim of the study is to design an automated system that will offer Student Academic Advice, with the following objectives:

- a) Provide an automated student academic counselling system for schools, to ease the work load on school student advisers.
- b) Provide real time counsel and advice to students anywhere, any time.

- c) Help in the fight against students' poor academic performance.
- d) Store students' complaint for easy retrieval.
- e) Protect submitted entries from unauthorized personnel.
- f) Design a secured system against theft or loss of vital information.

1.4 SIGNIFICANCE OF STUDY

Academic advising is an important and time-consuming task and different tools and techniques can be used to make it an effective and efficient process. This study will be of immense benefit to other researchers who intend to know more on this study and can also be used by non-researchers to build more on their research work. This study contributes to knowledge and could serve as a guide for other study

1.5 SCOPE OF THE STUDY

The scope of the research is focused on designing an automated secured student academic ADVISING SYSTEM for tertiary institutions, when fully implemented, the system will solve the challenges of students' record keeping, tracking complaints, reports and generally improve students' general welfare.

1.6 DEFINITION OF TERMS

Student: A student is primarily a person enrolled in a school or other educational institution who attends classes in a course to attain the appropriate level of mastery.

Automated: operated electronically, that functions automatically, without continuous input from an operator.

Adviser: An adviser or advisor is normally a person with more and deeper knowledge in a specific area.

Academic: relating to education or school.

Complaint: express dissatisfaction or annoyance about something.

Computerized: to control, perform, process, or store (a system, operation, or information) by means of or in an electronic computer or computers.

CHAPTER TWO

LITERATURE REVIEW

2.0 Introduction

Academic advising is integral to fulfilling the teaching and learning mission of higher education. Through academic advising, students learn to become members of their higher education community, to think critically about their roles and responsibilities as students, and to prepare to be educated citizens of a democratic society and a global community. Academic advising engages students beyond their own world views, while acknowledging their individual characteristics, values, and motivations as they enter, move through, and exit the institution. Regardless of the diversity of our institutions, our students, our advisors, and our organizational structures, academic advising has three components: curriculum (what advising deals with), pedagogy (how advising does what it does), and student learning outcomes (the result of academic advising) (NACADA, 2006).

2.1 Existing System

In the existing system, the student academic advising system is manual. Students have to go to the guidance and counselling unit or to their various course advisors for academic advice. This advising process is done for every student. In this project, the advisor time can not be greatly reduced because there is no production of the

path of recommended courses to take per quarter which will serve as a roadmap for the student in course registration. Thus, the advisor time can not be better utilized because he/she cannot communicate with the student about relevant issues regarding difficulties and challenges encountered in the program and counsel the student on career path. This manual system has a lot of setbacks as most academic advise to students are repetitive and cannot be tracked to see previous solutions to students needs academically.

2.1.1 Evolution of the Existing system

Student advising has historically taken many different forms all with the goal of assisting the student as they work toward their goal of completing their degree. Below are a few examples that illustrate the evolution of student advising at selected institutions and how these institutions incorporated computer systems using different methods.

At the University of Maryland in 1987, “a small group embarked on an experiment to enhance student advising using student data downloaded from the administrative mainframe to

PCs.” (Areu, Klavon, Munn, 1989, p. 24). This system and method of advising grew in popularity since it offered advisors the ability to view records, make electronic notes, and search for students with similar

characteristics, mail merge functionality, report writing, academic audits, statistical analysis and management tools (Arey et al., 1989, p. 30). The academic audit did “aid the advisor in examining the advisee’s academic record” (Arey et al., 1989, p.30). The system programmed academic requirements and matched them against a student’s record. This made the advising sessions much more productive since the advisor could focus on other advising aspects, such as professional development and career planning. One limitation and future improvement of this system was that the information was only available to the advisor and not to the student.

Many early advising systems were a series of people, from peer advisors, to professional advisors and to faculty advisors. According to David Crockett, “the bottom line of effective advising is improved educational/career planning, academic success, student growth and development, and lower dropout rates” (1982, p.1). Crockett’s system consisted of a form that students filled out and then turned in to an advisor. The advisor then analyzed the form and developed an action plan for the student.

In 1992, the University of Wisconsin-LaCrosse developed a system that allowed students to enter their courses taken and grades into a computer. The student then saved the information on a diskette and took it to an advisor. The advisor read the information on the diskette and assisted the student in

matching the courses with a degree program and further requirements. This was referred to as computer-assisted advising. A term coined by Gary Kramer (Kramer & Others, 1994).

William Wehrs stated, “advising systems were well-suited for academic advisement using an expert system application for two reasons. First, it is naturally a consultation process between student and advisor. Second, the majority of the expertise can be codified as curriculum requirements” (Wehrs, 1992, p. 1).

In 1992, a grant awarded to Portland Community College allowed the college to develop a system to combine information across student services units. The development team created a student tracking system using a computerized method. Professional advisors were trained on the computer system, how to use it to advise students, and create documentation regarding the advising conversation. The purpose of the grant was to provide better quality advising, with the hope that this would lead to a greater number of students completing their degrees (Bach & Others, 1992, p. 4). This system was a mainframe system that allowed advisors to see limited access regarding advisees and it was not accessible to students.

In 1994, Brigham Young University was using the “Advisement by Computer” method. Advisors had access to curriculum degree requirements and students’ academic records. When a report was run for a student, “a program would match the student’s record to degree requirements and display the results” (Kramer, 1994, p. 151). The advisors printed out these reports during each advising session. Advising offices also delivered the reports to students at the beginning of each semester when they met with their advisor for course registration and planning.

Although they were printed out and the student did not have direct access to the information, “the reports did provide detailed information on major requirements, substitutions, waivers and transfer work, repeated coursework, identified which courses would meet graduation requirements, and determined acceptable versus unacceptable grades” (Kramer, 1994, p. 152). In 1996, Pennsylvania State University developed their version of an advising system. This limited system allowed for students to calculate Grade Point Averages (GPAs). In addition, it allowed students to “calculate semester and cumulative grade-point averages based on a student’s predicted grades for the current enrollment period (Leonard, 1996, p.47).

In most cases, those close to the advising experience created advising systems for graduate and undergraduate students. The efforts enhanced the

student and advisor experience. The systems helped advisors spend less time looking at and analyzing data. This, in turn, allowed more time to provide advice on career paths or university policies and procedures.

“Technology supported academic advising enhances the advising process along four key dimensions: reliability, consistency, accuracy and scalability” (Kramer, 2000, p.81).

2.2 Web Based Academic Advising System

Many universities have recently started to use the Web to help in advising. The following section shows the tasks some universities fulfill in their advising systems on the Web. The concept of academic advising is situations in which an institutional representative gives insight or direction to a college student about an academic matter.

The Web based academic advising system include the process of complaint, evaluate and suggest. It has a multiple view for student, admin, advisor, staff and head of department. Each user of the academic advising system has a privilege that were provided by the admin that lead them to views in order to perform the task that required by the system. Each view helps user to deliver tasks with easy interface and real-time functions.

Below the main processes and modules of the system and how each user will interact in the system according to his/her roles in the overall cycle of the e-Academic Advising System:

A. Complaint process

Where a student submits complains about his/her educational intuition. Then it goes to the advisor through the system and the advisor adds the complaint follow-up until its status becomes solved. If the complaint stays unsolved and the due date for that complaint ends the system takes it and assign it to a staff and notify the head of department through reports. The advisor has the ability to assign the complaint to the staff so the staff deals with the complaint without any delay.

B. Evaluate process

Where a student submits an evaluation about any subjects that he/she attend in his education intuition. The evaluation sheet (form) is created by the admin. When the student adds his/her evaluation the system sends it to the head of department in the form of reports.

C. Suggestion process

Where a student adds suggestion about any subjects that he/she attend in his education intuition the suggestions submitted by the student are viewed by the advisor and the head of department and both have the ability to respond to it.

2.2.1 Existing Web Based Academic System

Henderson *et al.* (2015) presents an intelligent web-based application that provides a reliable, user friendly interface for the handling of general advisory cases in special degree programs offered by the Faculty of Science and Technology (FST) at the University of the West Indies (UWI), St. Augustine campus. In addition to providing information on handling basic student issues, the system's core features include course advising, as well as information of graduation status and oral exam qualifications. The researchers produce an overview of the solution, with special attention being paid to the inference system exposed via its RESTful Java Web Server (JWS).

Laghari *et al.* (2015) devises a Student Course Planning Software (SCPS) package. The software is developed by using the Python computer programming language. The software system guide students in selecting the most appropriate six courses suitable to register in the next semester. The outcome of the course selection is stored in a file to help students with the university registration system.

Daramola *et al.* (2014) presents the design and implementation of an intelligent Course Advisory Expert System (CAES) that uses a combination of rule based reasoning (RBR) and case based reasoning (CBR) to recommend courses that a student should register in a specific semester, by making recommendation based on

the student's academic history. The evaluation of CAES yielded satisfactory performance in terms of credibility of its recommendations and usability.

Shatnawi *et al.* (2014) proposes a smart system that uses association rule mining to help both students and advisors in selecting and prioritizing courses. The system helps students to improve their performance by suggesting courses that meet their current needs and at the same time improve their academic performance. The system uses association rule mining to find associations between courses that have been registered by students in many previous semesters. The system successfully generates a list of association rules that guide a particular student to select courses registered by similar students.

Laghari (2014) devises an Automated Course Advising System (ACAS) to guide students in selecting appropriate courses suitable to online registration. ACAS software is developed by using JAVA computer programming language. The outcome of the course selection is stored (semester wise) to show a complete typical plan.

Engin *et al.* (2014) reports and discusses the development of two educational expert systems at a private international university. The first expert system is a course advising system which recommends courses to undergraduate students. The second system suggests scholarships to undergraduate students based on their eligibility.

Both systems have been implemented and tested using Oracle Policy Automation (OPA) software.

Lightfoot (2014) describes a knowledge management tool to mitigate the problem of increasingly complex program offerings by universities combined with on-line educational opportunities by creating an intuitive, web-based interface to help students navigate directly to the Internet advising materials that are most applicable.

Hingorani *et al.* (2014) describes an Advisement System designed to mitigate the issues of an *out-of-thebox* implementation at a southeastern university to help improve retention and graduation; attempts to closely involve faculty with student advisement through a webbased advisement system. The system has worked remarkably well with high-level of satisfaction reported both by the students and the faculty.

Al-Nory (2012) creates a spreadsheet-based Decision Support Tool for Academic Advising. To better utilize technology in the advising process and to automate repetitive tasks in advising students. The researcher created the tool using VBA scripts and Microsoft Excel, the system automates some repetitive tasks in the advising process by performing functions such as GPA calculation. It should be noted however, that system operation requires two excel documents to be provided by the department; the first being a four-year schedule of the study program and the

other being a translation of the student transcript, since the system is not integrated in any way with the SIS.

Al-Ghamdi *et al.* (2012) proposes and develops an expert system for advising postgraduate students instead of the traditional way in advising by the department's advisors. This system aims to assist postgraduate students of Computer Science (CS) major in King Abdulaziz University (KAU) to select the suitable courses during their postgraduate program. The proposed system enables the students to select and get a plan to each semester without needing to consult advisors. Moreover, it takes into account courses prerequisites and department's requirements.

Nwelih *et al.* (2012) presents the analysis of the existing system in Nigerian Universities in the three geopolitical regions, namely: South-South, South-East and South-West in order to find out their strength, weaknesses and the area of need. Results are presented, based on the findings. Finally, the researchers present the Academic Advising Decision Support System (AADSS) Architecture design structures for scrutiny.

Ishak *et al.* (2012) aims to discover the main key area requirements for web-based academic advising system. The researchers use a combination of approaches.

A literature survey is conducted to investigate the current issues and common element of developing the web-based academic advising system. Finally, a random

survey is conducted among students and lecturers to gain their perspectives on academic advising. The research resulted in the proposed conceptual framework of web-based academic advising information system.

Feghali *et al.* (2011) attempts to solve a technology-based “last mile” problem by developing and evaluating a web-based decision support tool (the Online Advisor) that helps advisors and students make better use of an already present university student information system.

Al Ahmar (2011) develops a prototype student advising expert system that assists the students of Information Systems (IS) major in selecting their courses for each semester towards the academic degree. The system can also be used by academic advisors in their academic planning for students. The expert system is capable of advising students using prescriptive advising model and developmental advising model. The system is supported with an object-oriented database and provides a friendly graphical user interface.

Hwang *et al.* (2011) proposes an innovative approach, and the knowledge base development of an expert system by analyzing the online problem-solving behaviors of the teachers. Consequently, the expert system works as an instructor to assist the students in improving their web-based problem-solving ability. To demonstrate the innovative approach, two experts are asked to evaluate the performance of the expert

system. Experimental results show that, the novel approach is able to provide accurate and constructive suggestions to students in improving their problem-solving ability.

Aslam *et al.* (2011) presents the design and development of a proposed rule based Decision Support System that will help students in selecting the best suitable faculty/major decision while taking admission in Gomal University, Dera Ismail Khan, Pakistan. The basic idea of the researchers' approach is to design a model for testing and measuring the student capabilities like intelligence, understanding, comprehension, mathematical concepts plus his/her past academic record plus his/her intelligence level, and applying the module results to a rule-based decision support system to determine the compatibility of those capabilities with the available faculties/majors in Gomal University. The result is shown as a list of suggested faculties/majors with the student capabilities and abilities.

Nambiar *et al.* (2010) develops an expert system using JESS that allows students to seek quick responses to their queries regarding their plan of study and progress in the program. This expert system separates the rules from the execution thus enabling users to customize or extend the system by changing or updating the XML file that stores the rules.

Deorah *et al.* (2010) proposes an expert system SAES which aims to provide intelligent advice to the student as to which major he/she should opt. SAES acquires knowledge of academic performances as well as explicit and implicit interests of the candidate. Knowledge representation in SAES is done by the use of a combination of case based and rule based reasoning. SAES draws inferences on the basis of acquired knowledge and also takes into account the degree of dilemma faced by the candidate and the time he/she takes to decide the interest areas. SAES then recommends the most suitable majors for each candidate, which are further classified as strong, mild and weak on the basis of calculated relative probabilities of success. At the end, analyzing results of the test conducted on a working prototype of SAES.

Albalooshi *et al.* (2010) presents a web-based multidisciplinary advising system that can be utilized by students, advisors, course timetable planners, and heads of departments. Students are given informative advice through web-based services to help them make best decisions towards a successful degree of their choice. Services, such as registering for courses to stay on the right degree path; a dependency graph showing their progress in their degree plan; a GPA simulator to help students on probation determine the grades they must obtain in the newly registered semester; information about their graduation requirements; their expected graduation semester; and other services. Advisors and heads of departments are able to see

students' progress towards their graduation and are able to generate a variety of useful statistics, charts, and reports. Timetable planners are given statistics on courses and their sections' requirements for the coming semester.

Albalooshi *et al.* (2010) presents an online advising system that can be utilized by students, advisors, and course timetable planners. Students are given informative advice on which courses to register for in the next semester and are informed of their remaining graduation requirements; advisors are able to see students' progress towards their graduation requirements; and timetable planners are given statistics on courses and sections requirements for the coming semester.

McMahan (2010) develops a project that was to design and implement an automatic dialog system for augmenting university student advising. The automatic dialog system focused on prescriptive advising rather than developmental advising to further narrow the domain to scheduling and registration matters. The phrases and advising information have been encoded using Artificial Intelligence Markup Language (AIML) and the dialog system has been implemented in the programming language Python.

Martínez-Argüelles *et al.* (2010) describes the online academic advising system in a virtual university. The researchers describe the background of this system and its main elements: the advisor's functions, the types of advisors (incorporation,

beginning and continuation), the available tools for advisors, and the organization of the advisorial activity both from the internal and the student's point of view.

Cline *et al.* (2010) developed a web-based concept map construction and rule-based evaluation system called the Concept Mapping Tool (CMT) that is being deployed at the university level. After students use the drawing facility of CMT to construct individual concept maps for a particular topic that was presented in a course, they can then use the rule-based evaluation system to grade their concept maps against a criterion concept map created by the course instructor. Students are given immediate feedback on how to improve their concept maps, and they can use CMT iteratively to improve their understanding of the topic at hand. The rule-based evaluation or grading system is modeled in part on a manual system for the consistent scoring of concept maps.

Werghi *et al.* (2009) presents a Decision Support System (DSS) for student advising. The system aims to provide students with an automated program planning and scheduling service that best fits their profiles while meeting academic requirements. After the literature survey and description of the system's architecture, the paper describes the new paradigm that models student advising as a search problem, whereby the search space is represented by a decision tree that embeds virtually all the instances of a student academic plan. The researchers approach has several advantages over previous rule-based advising systems. The system implicitly

implements, via the decision tree, many academic rules; it allows a systematic and exhaustive browse of the different student plan instances; and it permits a methodological assessment and measurement of the appropriateness of a given student academic plan.

Fong *et al.* (2009) presents a hybrid model of neural network and decision tree classifier that serves as the core design for a university admission recommender system. The system was tested with live data from sources of Macau secondary school students. In addition to the high prediction accuracy rate, flexibility is an advantage such that the system can predict suitable universities that match the students' profiles and the suitable approaches through which the students should enter. The recommender can be generalized into making different kinds of predictions based on the students' histories.

Binh *et al.* (2008) introduces an intelligent academic advising system approach that focuses on integrating technology-enhanced learning methodologies into a pedagogy-driven and service-oriented architecture based on semantic technology. Specifically, a knowledge based framework is conceptually introduced, assisting learners in identifying and assessing academic alternatives for their life goals as well as making meaningful educational plans that are effectively compatible with those goals. In the proposed framework, the learning data warehouse plays a key part with information about learners' behaviour and navigation so that intelligent algorithms

can be applied and patterns can be obtained as the basis for course advising. Moreover, a data integration prototype is studied and developed as a resource discovery tool to map, convert and harvest advising related information from structured and semi-structured learning repositories. Thus, the described framework emphasizes its application within an open adaptive credit-based learning, providing abilities for accessing and managing, in an integrated manner, the adaptive interaction, adaptive course delivery as well as adaptive content discovery and assembly.

Lin *et al.* (2008) presents an approach to tackle a dynamic and complex individualized study planning and scheduling problem utilizing multi-agent system approach and ontology-driven methodology. To support the approach a web-based multiple intelligent agents' system called eAdvisor is developed and tested by users. The researcher describes the various types of agents used in eAdvisor, the development of the ontologies and their applicability, system implementation issues and a preference-driven planning algorithm used by the agents. Empirical results show that the architecture and algorithm are effective.

Indiana University: The Indiana Student Information Transaction Environment (INSITE) [1] is a Web-based service for Indiana University students, faculty, and staff. It provides secure access to student information. For students, access to

information is protected by Student ID number (SIDN) and PIN. The following information is available through INSITE:

- To produce an advising report for a student's current major.
- To produce an advising report for a different major.
- To produce an advising report for a special purpose program.
- To produce an advising report for a program under development.
- To produce an advising report for a special purpose program under development.
- To generate a student transcript (course history).
- To see how in-progress courses apply to a student's advising report.

Brigham Young University: The Student Planning System (Sam et. Al, 2002) at Brigham Young University (BYU) combines the benefits of College Advisement Centers and integrates other academic services including the use of the AIM system, Advisement by Computer (ABC) report, and faculty advising to provide direction and support to each student's academic progress. These resources are specifically geared toward addressing specific academic needs and contribute to the quality of each student's overall university experience. Route Y is the BYU's campus intranet. It is designed to be a secure and personalized information source for current BYU patrons. Patrons include current BYU students, faculty and staff. To help monitor students' general education and major progress, BYU has created the Advisement

by Computer (ABC) report. Students can view and print their ABC report by using the Route Y AIM system.

California State University, Monterey Bay (CSUMB): CSUMB's Planner Web (Sam et. Al, 2002) for student advising is the first step in the Advising and Registration process for continuing and newly admitted CSUMB students. All undergraduates and second BA/BS candidates must submit their proposed schedule in order to register.

Duke University: Duke's Pre-Major Advising Center (Sam et. Al, 2002) doubles as a question site and an appointment site. Students can access advising FAQs and they can make appointments with their advisors.

West Washington University: The Academic Advising Center (Sam et. Al, 2002) at West Washington University provides academic advising that is one of the most important services students will receive. The process of academic advising is a shared responsibility where a student works with faculty and staff academic advisers. Freshmen are assigned a faculty adviser at orientation who serves until a major is declared.

North Carolina State University: The Advising Central (Sam et. Al, 2002) at NC State is designed to provide Web and Internet based advising to NC State undergraduate students. The goals of Advising Central are to:

- Make academic policies clear and meaningful for the students.
- Help students navigate through NC State's human resources to locate and secure advice from the most knowledgeable person in a particular field or college, and help students identify sources that will aid them in clarifying their academic direction and strengthening their academic skills.

2.3 SUMMARY

In summary, there are currently many universities in the United States with Web-based advising systems at work. Most of the pages entitled *Web-based advising* are typically a bulletin board with advising-related announcements; a repository of official documents in PDF or HTML format; a collection of useful links that help students get official advising-related information off the Web; or a combination of those. They hardly include any scripts or Web server programs to process specific student information and produce customized advice for students. Indiana University is an exception, but the Web system is only for advisors to get their advisee's information, it is not designed for students.

CHAPTER THREE

SYSTEM DESIGN

In this chapter, presented below is the description of the existing system, the problems of the existing system, design of the proposed system and system design architecture of the proposed system. The design architecture focused on the system structure and interactions. It begins with a description of the system using software UML diagrams such as the Use case and Activity diagrams.

3.1 Description of the Existing System

The existing system or current system involves the traditional mode of academic advising. This is a manual system where academic staff are assigned with the responsibility of rendering counselling service to students with a view to providing useful antidotes to the students' academic challenges. Academic advising covers academic activities such as development of suitable educational plans, selection of appropriate courses, interpretation of institutional requirements, enhancement of students' awareness about available educational resources, evaluation of student progress toward established goals and development of decision making skills with reinforcement of student self-direction. This current system involves physical contact, usually face-to-

face contact, between the staff adviser and the student advisee. This manual process requires time, experience and money for its efficiency.

3.2 Problems of the Existing System

The current system, which is the traditional mode of academic advising, has the following disadvantages:

- i. It's face-to-face contact nature makes the service not to be readily available to students.
- ii. The experienced staff advisers are not readily available to discharge the service.
- iii. It lacks flexibility due to time and distance.
- iv. It is time consuming.

3.3 Design of the Proposed System

The design method adopted in this research project is the bottom-up design approach. The bottom-up design approach is a style of design where one decides the process of combining modules to form larger ones, to combine these to form even larger ones and so on until one arrives at whole desired system (Nwaocha, 2009). In a bottom-up design approach the discrete base elements of the system are first identified. These elements are then connected together to form larger subsystems, which are, in turn, linked, sometimes in many levels, until a

widespread and final top-level system is formed. Some of the design steps used by the researchers include:

- i. Structuring a database table to hold students' information with an accompanying form to capture (input) student data.
- ii. Designing a form to enable registration of courses (processing) by admin, storing information in database table.
- iii. Designing a login form based on students' information already in database table.
- iv. Designing an efficient report generator to output students' registration forms, and academic results whenever necessary.

3.4 System Design Architecture

The architecture of a software system is a metaphor, analogous to the architecture of a building (Perry & Wolf, 1992). It functions as a blueprint for the system and the developing project, laying out the tasks necessary to be executed by the design teams (Carnegie Mellon University, 2017). The proposed system is a PHP based system with intranet capabilities i.e. it can allow several users gain access to the system concurrently with efficient record-locking in place. PHP has the XAMP Server Engine embedded in it to store local files: textual information, images, and so on. PHP Access itself, equipped with MYSQL and HTML,

processes all requests to the system, directly interacting with the database; and provides the user interface used by the users to interact with the Academic Advising System. The architectural layout of the Student Academic Advising System is shown below:

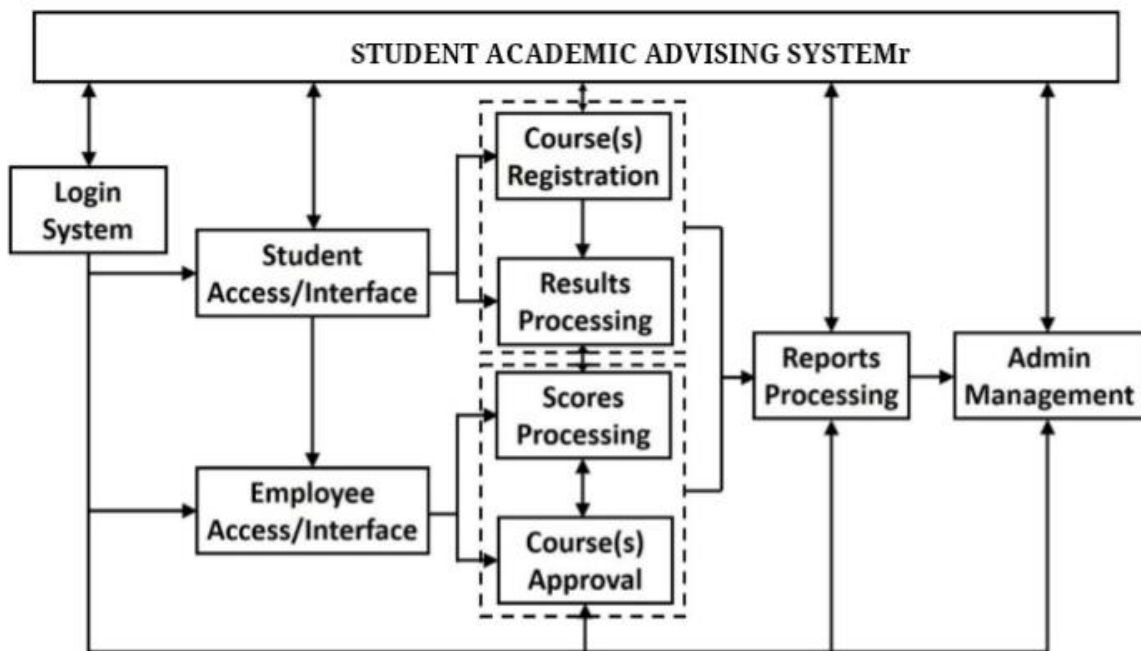


Figure 1: Functional Block Diagram

CHAPTER FOUR

IMPLEMENTATION OF THE SYSTEM

4.0 Introduction

In this chapter, presented the system requirements: hardware and software requirements, implementation procedure, program coding software testing and software installation, and evaluation of results.

4.1 System Requirements

For a user to run the application, the hardware and software requirements stated below have to be met.

4.1.1 System Hardware Requirements

There should be a computer system with the following hardware requirements:

- i.Processor: Intel® or AMD® Dual Core processors
- ii.Memory: 2.00GB DDR3 RAM
- iii.HDD Storage: 1.00GB
- iv.Network Card: Wi-Fi 802.11 b/g/n
- v.Screen Resolution: 1366 x 768

4.1.2 System Software Requirements

The following are the software requirements

- i.Operating System: Windows 7, 8, 8.1 or 10
- ii.Runtime: Microsoft Access 2013 or higher version

4.2 Implementation Procedure

Implementation procedure involves the practical job of putting all the theoretical designs into action to get the new system into use. Implementation procedure involves program coding, testing and installation.

4.2.1 Program Coding

The software for this project was coded using cascading style sheet (CSS). Personal home page (PHP) was used in creating server sides script which is responsible for the data access between the database and the client, and the basics of how data are being used before being displayed to the client inform of feedback or information.

4.2.2 Software Testing

Software testing is the process of running a program in order to establish its functionality. It is also a process of validating and verifying that the software meets its technical requirements. Any identified bugs in the course of program testing are fixed. The product of this study, Web-based Academic Advising System, passed through three tests naming unit testing, integration testing and system testing. The purpose of unit testing is to identify and fix execution and logic errors. Unit testing was carried out on the individual modules of the developed system. Integration testing involves bringing two or more modules together and testing the integrated version to confirm its workability. In this study, it was performed after the unit testing. System testing, which is the final testing stage, involves testing the entire system. The Web-based Academic Advising System fully tested and was found to be bud free. More importantly, the results of the system testing were okay and were in line with the software specifications.

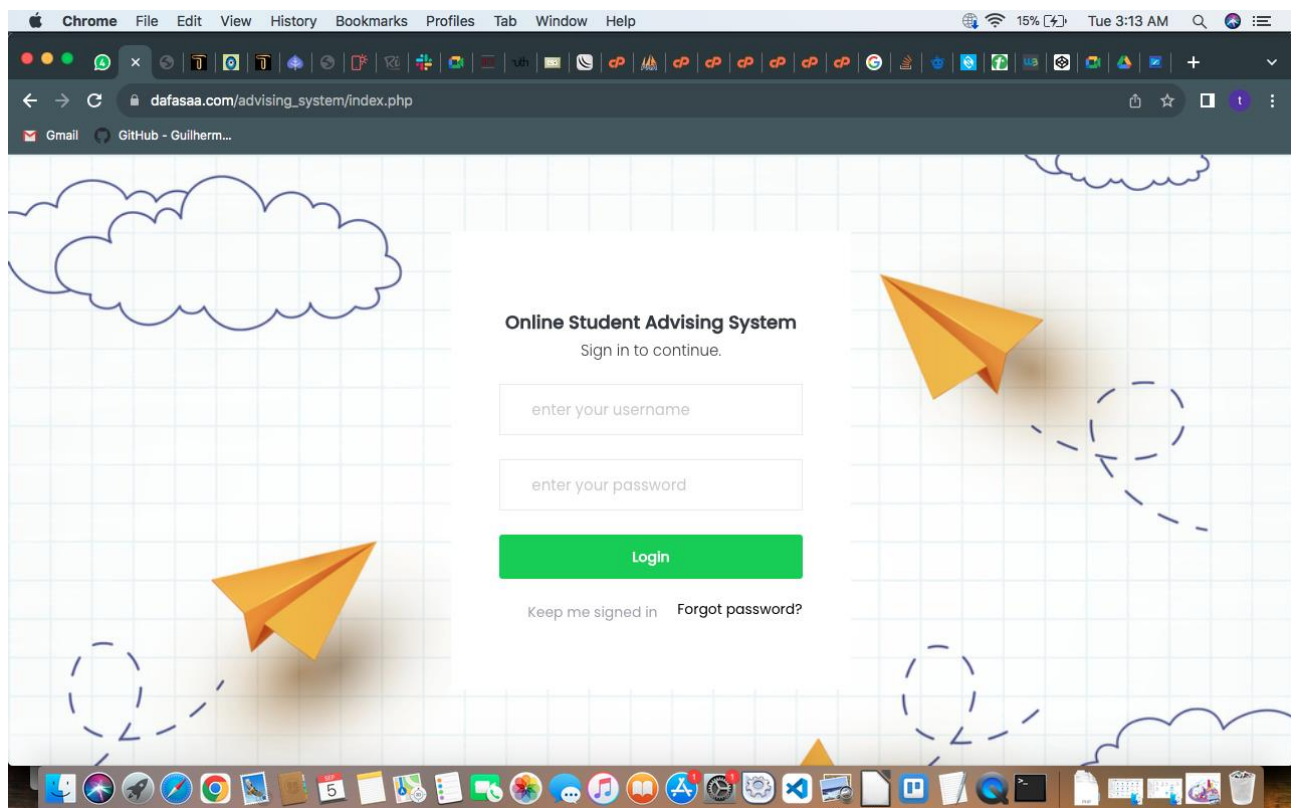
4.2.3 Software Installation

The Web-based Academic Advising System can be put into use through hosting it for Internet access via the World Wide Web (www). The application can also be hosted for Intranet access on multiple computers in a network connected to a server.

4.3 Evaluation of Results

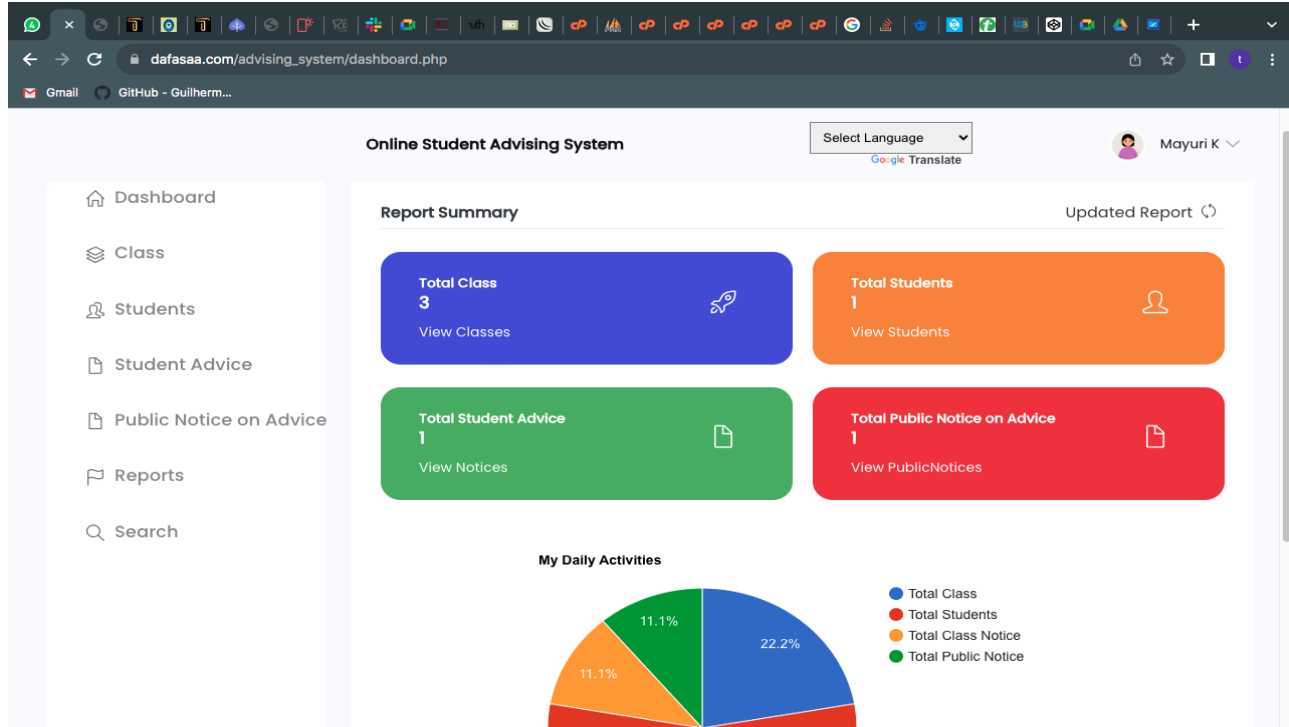
After the successful implementation of the software test run, from unit testing to integration testing and finally the overall system testing, the system is now bug free. All the obtained results during the testing stage showed that the system has met all the specifications and requirements, and it is, therefore, ready for deployment.

1. Login Page



This is the page where advisors and students enter their login details to gain access into the online student advice system.

2. Advisor Dashboard



This is the advisor's dashboard where a statistical analysis is displayed of all students that have been attended to by the logged in advisor.

3. Add Student Page

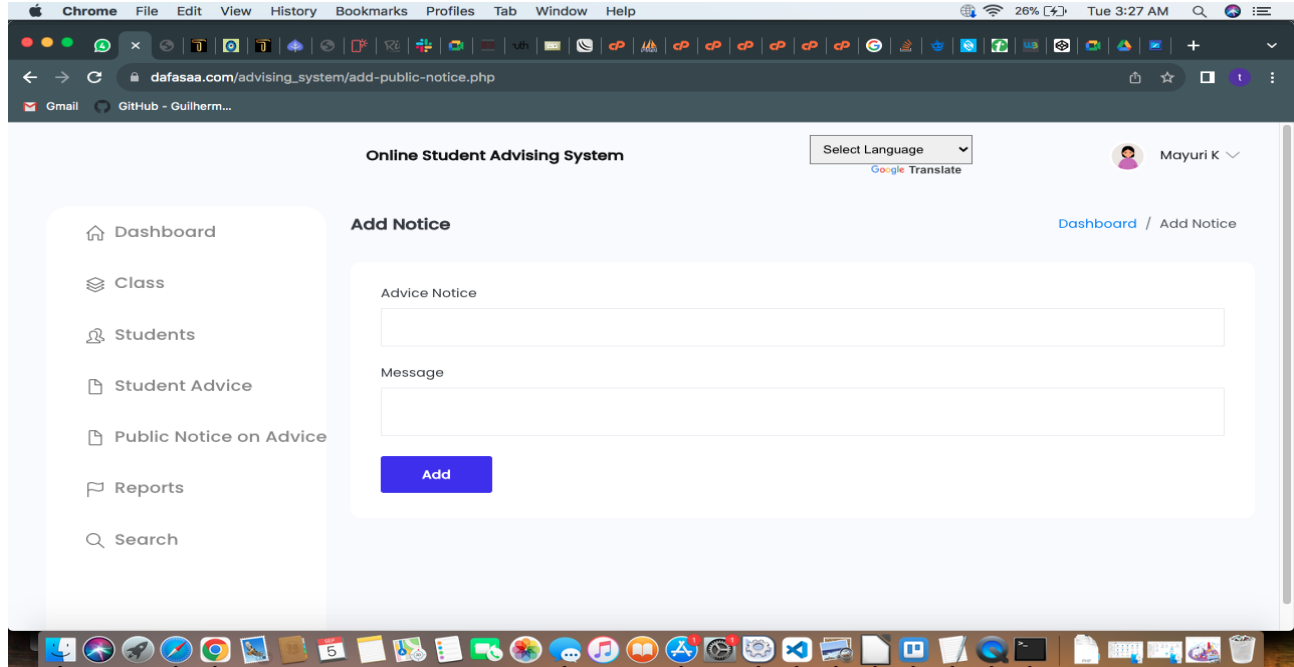
This page is where advisors add students to their list by creating an account for the student so whatever the case maybe, the student will have access to any message sent by the advisor.

4. Advice Board

The screenshot displays a web browser window with the URL `dafasaa.com/advising_system/add-notice.php`. The page title is "Online Student Advising System". In the top right corner, there is a "Select Language" dropdown menu and a user profile for "Mayuri K". A navigation sidebar on the left includes links for Dashboard, Class, Students, Student Advice, Public Notice on Advice, Reports, and Search. The main content area is titled "Advice Board" and contains a form with the following fields: "Title" (text input), "Advice For" (dropdown menu with "Select Student" and a tooltip that says "Please select an item in the list."), and "Advice Message" (text area). A blue "Add" button is located at the bottom of the form. The browser's taskbar at the bottom shows various application icons.

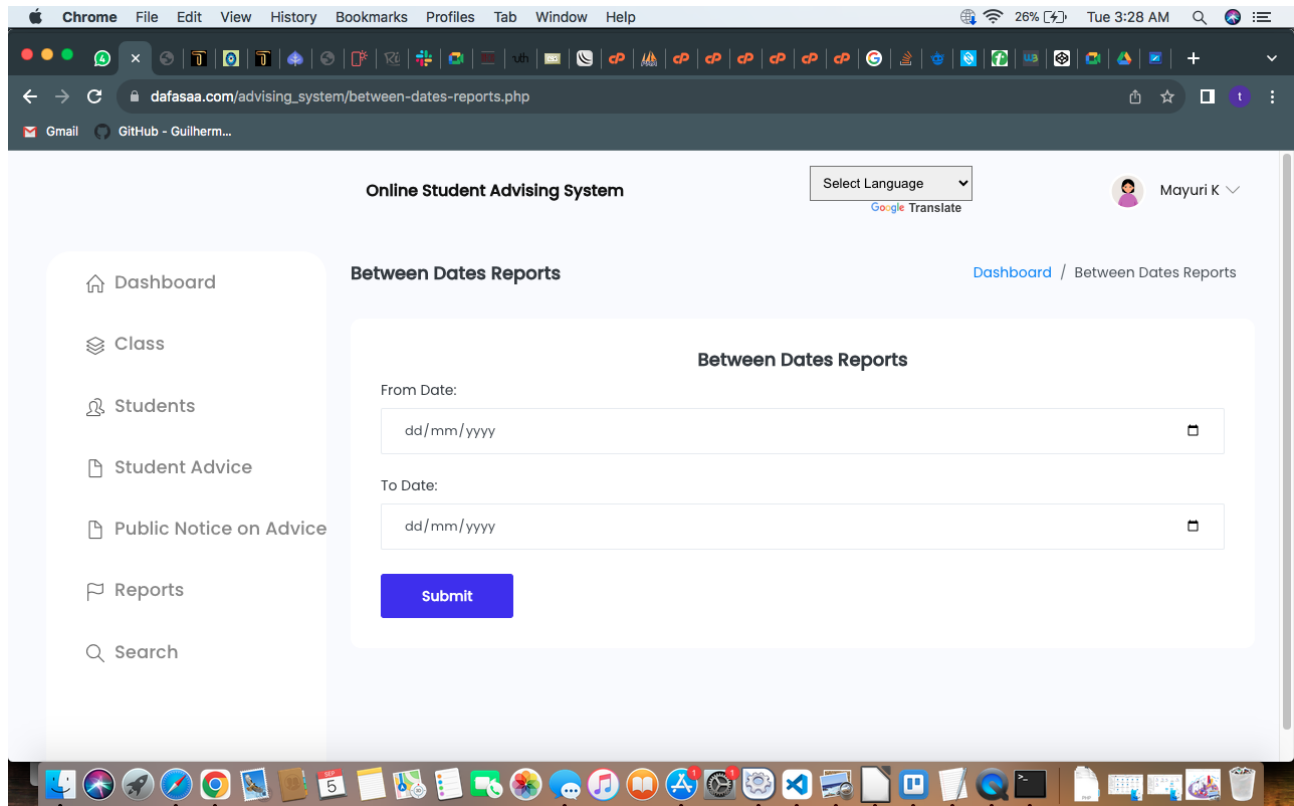
This page is where the advisor selects a particular student for real time advice on their academics and the student can also view and respond accordingly.

5. Add Notice



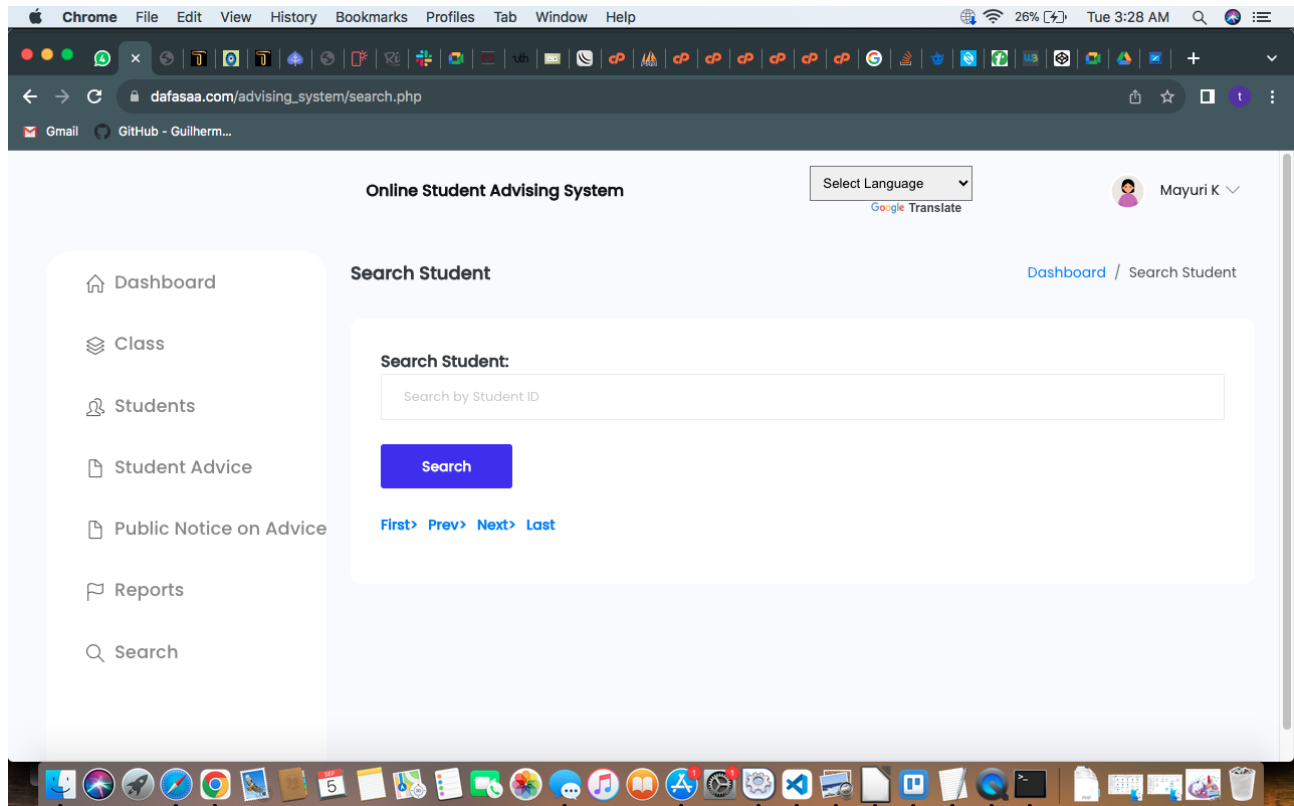
In this page, an advisor can post a general notice to students already registered on the system.

6. Advice Report



the advisor can generate report on this page by selecting a time frame

7. Search student Page.



For ease, an advisor can search for a student on the system.

8. Database Structure

The screenshot displays the phpMyAdmin interface in a Safari browser window. The main content area shows the 'Table structure' view for the 'tblstudent' table in the 'dafasaac_advise' database. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	int(10)			No	None		AUTO_INCREMENT	Change Drop More
2	StudentName	varchar(200)	latin1_swedish_ci		Yes	NULL			Change Drop More
3	StudentEmail	varchar(200)	latin1_swedish_ci		Yes	NULL			Change Drop More
4	StudentClass	varchar(100)	latin1_swedish_ci		Yes	NULL			Change Drop More
5	Gender	varchar(50)	latin1_swedish_ci		Yes	NULL			Change Drop More
6	DOB	date			Yes	NULL			Change Drop More
7	StuID	varchar(200)	latin1_swedish_ci		Yes	NULL			Change Drop More
8	FatherName	mediumtext	latin1_swedish_ci		Yes	NULL			Change Drop More
9	MotherName	mediumtext	latin1_swedish_ci		Yes	NULL			Change Drop More
10	ContactNumber	bigint(10)			Yes	NULL			Change Drop More
11	AltenateNumber	bigint(10)			Yes	NULL			Change Drop More
12	Address	mediumtext	latin1_swedish_ci		Yes	NULL			Change Drop More
13	UserName	varchar(200)	latin1_swedish_ci		Yes	NULL			Change Drop More
14	Password	varchar(200)	latin1_swedish_ci		Yes	NULL			Change Drop More
15	Image	varchar(200)	latin1_swedish_ci		Yes	NULL			Change Drop More
16	DateofAdmission	timestamp			Yes	current_timestamp()			Change Drop More

Below the table structure, there are options to 'Check all', 'With selected', and various actions like 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', 'Spatial', and 'Fulltext'. At the bottom, there are links for 'Print', 'Propose table structure', 'Move columns', and 'Normalize'.

CHAPTER FIVE

SUMMARY, CONCLUSION AND RECOMMENDATION

5.1 Summary

In this study, a Web-based Students' Academic Advising System was developed. The automated system has a user friendly interface. The system supports a database connection where all data inputs from the sections of the system are stored and can easily be retrieved on request. The developed Web-based Students' Academic Advising System supports multi-user access. It is robust, flexible and can be integrated with another Database Management System.

5.2 Conclusion

Student advising is one of the many critical service responsibilities that are offered to students in tertiary institutions. Often times, however, students have very similar questions about their academic activities such as courses to take in a semester, the sequence of courses, deadlines, among others. When programmes have a striated system of students' standings, the students are further confounded as they may not be eligible to take certain courses due to their current status in the programmes. Apart from required courses which are compulsory for each student to take, tertiary institutions also offer elective courses which are chosen by the students themselves. Students usually lack necessary information about the description and content of these elective courses and generally fail to take the appropriate ones for their course of study. Also lecturers tend to be pressed for time with research, teaching and other committee responsibilities. This results in increased frustrations for both students and lecturers alike. Hence this academic advising system has been implemented in order to fill the gap between students and the academic routines, by moving advising, complaining, evaluating system from the traditional ways to an automated way through letting the students use their personal computers or any other devices (a Smartphone or Tablet for

example) to make the process fast and easy as possible. The developed Web-based Students' Academic Advising System, therefore, when put in use, will go a long way in eliminating the problems and challenges associated with the traditional students' academic advising system not only in Enugu State College of Education (Technical), Enugu but in other tertiary institutions in Nigeria. The system is necessary given the fact that information and communication technology, with its numerous advantages, presently, has permeated into every facet of human activity.

5.3 Recommendation

In order to reap the gains of the developed Web-based Students' Academic Advising System to the fullness, the following recommendations were made:

- i. The universities should establish intranet work within the premises with Wi-Fi repeaters.
- ii. The ICT Unit of universities should be mandated to manage the Web-based Students' Academic Advising System.
- iii. There should be a backup generator set for use in the event of power failure.

REFERENCES

- Albalooshi, F., & Shatnawi, S., "HE-Advisor: A multidisciplinary web-based higher education advisory system", *Global Journal of Computer Science & Technology*, Vol. 10, No. 7, pp. (37-49), 2010.
- Anusha S., Pooja M S., Pooja U R., & Poornima V. R. (2017). "An Intelligent Student Advising System Using Collaborative Filtering, Department of Computer Science and Engineering ATME College of Engineering, 13th Kilometer, Bannur Road, Mysuru-570028
- Aslam M., Z., & Khan, A., R., "A Proposed Decision Support System/Expert System for Guiding Fresh Students in Selecting a Faculty in Gomal University, Pakistan", *Industrial Engineering Letters*, Vol. 1, No.4, pp. (33-40), 2011.
- Carnegie Mellon University. (2017, December). Software Architecture. Retrieved from Carnegie Mellon University: www.sei.cmu.edu.
- Deorah, S., Sridharan, S., & Goel, S., "SAES-expert system for advising academic major", In 2nd International Advanced Computing Conference (IACC), IEEE, pp.(331-336), 2010.
- Engin, G., Aksoyer, B., Avdagic, M., Bozanlı, D., Hanay, U., Maden, D., & Ertek, G., "Rule-based expert systems for supporting university students", 2nd International Conference on Information Technology and Quantitative Management (ITQM), pp. (22-31), 2014.
- Henderson, L., K., & Goodridge, W., " AdviseMe: An Intelligent Web-Based Application for Academic Advising", *International Journal of Advanced Computer Science and Applications (IJACSA)*, Vol. 6, No. 8, 2015.
- Nwaocha, Vivian (2009). *Advanced System Analysis and Design*. National Open University of Nigeria.

Perry, D. E., & Wolf, A. L. (1992, October 17). Foundations for the study of software architecture. ACM SIGSOFT Software Engineering Notes; doi:10.1145/141874.141884, p. 40.

Shatnawi, R., Althebyan, Q., Ghalib, B., &AlMaolegi, M., "Building a Smart Academic Aslam, Advising System Using Association Rule Mining", arXiv preprint arXiv:1407.1807, 2014.

University of Maine (n.d). Concept of Academic Advising-Definitionfile: [///C:/Users/User/Desktop/WEB%20PROJECT/aditions/concept%20Academic%20Advising%20-%20Definition%20%20Academics%20-%20Copy.html](file:///C:/Users/User/Desktop/WEB%20PROJECT/aditions/concept%20Academic%20Advising%20-%20Definition%20%20Academics%20-%20Copy.html)

```

<?php
session_start();
error_reporting(0);
include('includes/dbconnection.php');
if (strlen($_SESSION['sturecmsaid']==0)) {
    header('location:logout.php');
    } else{
        if(isset($_POST['submit']))
        {
            $nottitle=$_POST['nottitle'];

            $notmsg=$_POST['notmsg'];
            $sql="insert into tblpublicnotice(NoticeTitle,NoticeMessage)values(:nottitle,:notmsg)";
            $query=$dbh->prepare($sql);
            $query->bindParam(':nottitle',$nottitle,PDO::PARAM_STR);
            $query->bindParam(':notmsg',$notmsg,PDO::PARAM_STR);
            $query->execute();
            $LastInsertId=$dbh->lastInsertId();
            if ($LastInsertId>0) {
                echo '<script>alert("Notice has been added.")</script>';
            }
            echo "<script>>window.location.href ='add-public-notice.php'</script>";
        }
        else
        {
            echo '<script>alert("Something Went Wrong. Please try again")</script>';
        }
    }
}
?>

```

```

<!-- partial:partials/_navbar.html -->
<?php include_once('includes/header.php');?>
<!-- partial -->
<div class="container-fluid page-body-wrapper">
    <!-- partial:partials/_sidebar.html -->
    <?php include_once('includes/sidebar.php');?>
    <!-- partial -->
    <div class="main-panel">
        <div class="content-wrapper">
            <div class="page-header">
                <h3 class="page-title">Add Notice </h3>
                <nav aria-label="breadcrumb">
                    <ol class="breadcrumb">
                        <li class="breadcrumb-item"><a href="dashboard.php">Dashboard</a></li>
                        <li class="breadcrumb-item active" aria-current="page"> Add Notice</li>
                    </ol>
                </nav>

```

```

</div>
<div class="row">

  <div class="col-12 grid-margin stretch-card">
    <div class="card">
      <div class="card-body">

        <form class="forms-sample" method="post" enctype="multipart/form-data">

          <div class="form-group">
            <label for="exampleInputName1">Advice Notice</label>
            <input type="text" name="nottitle" value="" class="form-control"
required='true'>
          </div>
          <div class="form-group">
            <label for="exampleInputName1">Message</label>
            <textarea name="notmsg" value="" class="form-control"></textarea>
          </div>

          <button type="submit" class="btn btn-primary mr-2"
name="submit">Add</button>

        </form>
      </div>
    </div>
  </div>
</div>
</div>
</div>
</div>
<!-- content-wrapper ends -->
<!-- partial:partials/_footer.html -->
<?php include_once('includes/footer.php');?>
<!-- partial -->
</div>
<!-- main-panel ends -->
</div>
<!-- page-body-wrapper ends -->
</div>
<!-- container-scroller -->
<?php } ?>
<?php
session_start();
error_reporting(0);
include('includes/dbconnection.php');
if (strlen($_SESSION['sturecmsaid']==0)) {
  header('location:logout.php');

```

```

} else{
    if(isset($_POST['submit']))
    {
        $nottitle=$_POST['nottitle'];
        $classid=$_POST['classid'];
        $notmsg=$_POST['notmsg'];
        $sql="insert into tblnotice(NoticeTitle,ClassId,NoticeMsg)values(:nottitle,:classid,:notmsg)";
        $query=$dbh->prepare($sql);
        $query->bindParam(':nottitle',$nottitle,PDO::PARAM_STR);
        $query->bindParam(':classid',$classid,PDO::PARAM_STR);
        $query->bindParam(':notmsg',$notmsg,PDO::PARAM_STR);
        $query->execute();
        $LastInsertId=$dbh->lastInsertId();
        if ($LastInsertId>0) {
            echo '<script>alert("Notice has been added.")</script>';
            echo "<script>>window.location.href ='add-notice.php'</script>";
        }
        else
        {
            echo '<script>alert("Something Went Wrong. Please try again")</script>';
        }
    }
}
?>

```

```

<!-- partial:partials/_navbar.html -->
<?php include_once('includes/header.php');?>
<!-- partial -->
<div class="container-fluid page-body-wrapper">
    <!-- partial:partials/_sidebar.html -->
    <?php include_once('includes/sidebar.php');?>
    <!-- partial -->
    <div class="main-panel">
        <div class="content-wrapper">
            <div class="page-header">
                <h3 class="page-title">Advice Board </h3>
                <nav aria-label="breadcrumb">
                    <ol class="breadcrumb">
                        <li class="breadcrumb-item"><a href="dashboard.php">Dashboard</a></li>
                        <li class="breadcrumb-item active" aria-current="page"> Advice Board</li>
                    </ol>
                </nav>
            </div>
            <div class="row">
                <div class="col-12 grid-margin stretch-card">
                    <div class="card">

```

```

<div class="card-body">
  <h4 class="card-title" style="text-align: center;">Advice Board</h4>

  <form class="forms-sample" method="post" enctype="multipart/form-data">

    <div class="form-group">
      <label for="exampleInputName1">Title</label>
      <input type="text" name="nottitle" value="" class="form-control"
required='true'>
    </div>

    <div class="form-group">
      <label for="exampleInputEmail3">Advice For</label>
      <select name="classid" class="form-control" required='true'>
        <option value="">Select Student</option>
        <?php

$sql2 = "SELECT * from tblclass ";
$query2 = $dbh -> prepare($sql2);
$query2->execute();
$result2=$query2->fetchAll(PDO::FETCH_OBJ);

foreach($result2 as $row1)
{
  ?>
  <option value=""<?php echo htmlentities($row1->ID);?>"><?php echo
htmlentities($row1->ClassName);?> <?php echo htmlentities($row1->Section);?></option>
  <?php } ?>
        </select>
      </div>
      <div class="form-group">
        <label for="exampleInputName1">Advice Message</label>
        <textarea name="notmsg" value="" class="form-control"></textarea>
      </div>

      <button type="submit" class="btn btn-primary mr-2"
name="submit">Add</button>

    </form>
  </div>
</div>
</div>
</div>
</div>
<!-- content-wrapper ends -->
<!-- partial:partials/_footer.html -->

```

```

    <?php include_once('includes/footer.php');?>
    <!-- partial -->
</div>
<!-- main-panel ends -->
</div>
<!-- page-body-wrapper ends -->
</div>
<!-- container-scroller -->

```

```

<?php } ?>
<?php
session_start();
//error_reporting(0);
include('includes/dbconnection.php');
if (strlen($_SESSION['sturecmsaid']==0)) {
    header('location:logout.php');
    } else{

```

?><!-- Original Author Name: Mayuri K.
for any PHP, Codeignitor, Laravel OR Python work contact me at mayuri.infospace@gmail.com
Visit website : www.mayurik.com -->

```

<!-- partial:partials/_navbar.html -->
<?php include_once('includes/header.php');?>
<!-- partial -->
<div class="container-fluid page-body-wrapper">
    <!-- partial:partials/_sidebar.html -->
    <?php include_once('includes/sidebar.php');?>
    <!-- partial -->
    <div class="main-panel">
        <div class="content-wrapper">
            <div class="row">
                <div class="col-md-12 grid-margin">
                    <div class="card">
                        <div class="card-body">
                            <div class="row">
                                <div class="col-md-12">
                                    <div class="d-sm-flex align-items-baseline report-summary-header">
                                        <h5 class="font-weight-semibold">Report Summary</h5> <span class="ml-
auto">Updated Report</span> <button class="btn btn-icons border-0 p-2"><i class="icon-
refresh"></i></button>
                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>

```

```

        <div class="report-inner-card color-1">
        <div class="inner-card-text text-white">
            <?php
                $sql1 ="SELECT * from tblclass";
$query1 = $dbh -> prepare($sql1);
$query1->execute();
$results1=$query1->fetchAll(PDO::FETCH_OBJ);
$totclass=$query1->rowCount();
?>

            <span class="report-title">Total Class</span>
            <h4><?php echo htmlentities($totclass);?></h4>
            <a href="manage-class.php"><span class="report-count"> View
Classes</span></a>
        </div>
        <div class="inner-card-icon">
            <i class="icon-rocket"></i>
        </div>
    </div>
</div>
    <div class="col-md-6 report-inner-cards-wrapper">
        <div class="report-inner-card color-2">
        <div class="inner-card-text text-white">
            <?php
                $sql2 ="SELECT * from tblstudent";
$query2 = $dbh -> prepare($sql2);
$query2->execute();
$results2=$query2->fetchAll(PDO::FETCH_OBJ);
$totstu=$query2->rowCount();
?>

            <span class="report-title">Total Students</span>
            <h4><?php echo htmlentities($totstu);?></h4>
            <a href="manage-students.php"><span class="report-count"> View
Students</span></a>
        </div>
        <div class="inner-card-icon ">
            <i class="icon-user"></i>
        </div>
    </div>
</div>
    <div class="col-md-6 report-inner-cards-wrapper">
        <div class="report-inner-card color-3">
        <div class="inner-card-text text-white">
            <?php
                $sql3 ="SELECT * from tblnotice";
$query3 = $dbh -> prepare($sql3);
$query3->execute();

```



```

        <!-- content-wrapper ends -->
        <!-- partial:partials/_footer.html -->
        <?php include_once('includes/footer.php');?>
        <!-- partial -->
    </div>
    <!-- main-panel ends -->
</div>
<!-- page-body-wrapper ends -->
</div>
<script type="text/javascript">
    google.charts.load('current', {'packages':['corechart']});
    google.charts.setOnLoadCallback(drawChart);

    function drawChart() {

        var data = google.visualization.arrayToDataTable([
            ['Task', 'Hours per Day'],
            ['Total Class', 4],
            ['Total Students', 10],
            ['Total Class Notice', 2],
            ['Total Public Notice', 2]
        ]);

        var options = {
            title: 'My Daily Activities'
        };

        var chart = new google.visualization.PieChart(document.getElementById('piechart'));

        chart.draw(data, options);
    }
</script>
<!-- container-scroller -->
<!-- plugins:js -->
<?php } ?>
<?php
session_start();
error_reporting(0);
include('includes/dbconnection.php');

if(isset($_POST['login']))
{
    $username=$_POST['username'];
    $password=md5($_POST['password']);
    $sql ="SELECT ID FROM tbladmin WHERE UserName=:username and
Password=:password";

```

```

$query=$dbh->prepare($sql);
$query-> bindParam(':username', $username, PDO::PARAM_STR);
$query-> bindParam(':password', $password, PDO::PARAM_STR);
$query-> execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
if($query->rowCount() > 0)
{
foreach ($results as $result) {
$_SESSION['sturecmsaid']=$result->ID;
}

if(!empty($_POST["remember"])) {
//COOKIES for username
setcookie ("user_login",$_POST["username"],time()+ (10 * 365 * 24 * 60 * 60));
//COOKIES for password
setcookie ("userpassword",$_POST["password"],time()+ (10 * 365 * 24 * 60 * 60));
} else {
if(isset($_COOKIE["user_login"])) {
setcookie ("user_login","");
if(isset($_COOKIE["userpassword"])) {
setcookie ("userpassword","");
}
}
}
$_SESSION['login']=$_POST['username'];
echo "<script type='text/javascript'> document.location ='dashboard.php'; </script>";
} else{
echo "<script>alert('Invalid Details');</script>";
}
}

```

?><!-- Original Author Name: Mayuri.K.
for any PHP, Codeignitor, Laravel OR Python work contact me at mdkhairnar92@gmail.com
Visit website : <https://mayurik.com> -->

<!DOCTYPE html>

<html lang="en">

<head>

<title>Online Student Advising System|| Login Page</title>

<!-- plugins:css -->

<link rel="stylesheet" href="assets/vendors/simple-line-icons/css/simple-line-icons.css">

<link rel="stylesheet" href="assets/vendors/flag-icon-css/css/flag-icon.min.css">

<link rel="stylesheet" href="assets/vendors/css/vendor.bundle.base.css">

<!-- endinject -->

<!-- Plugin css for this page -->

```

<!-- End plugin css for this page -->
<!-- inject:css -->
<!-- endinject -->
<!-- Layout styles -->
<link rel="stylesheet" href="assets/css/style.css">
<style>
  .content-wrapper{
    background-image: url('assets/images/background.jpg');
    background-size: cover;
  }
</style>
</head>
<body>
  <div class="container-scroller">
    <div class="container-fluid page-body-wrapper full-page-wrapper">
      <div class="content-wrapper d-flex align-items-center auth">
        <div class="row flex-grow">
          <div class="col-lg-4 mx-auto">
            <div class="auth-form-light text-center p-5">
              <div class="brand-logo">
                </div>
                <h4>Online Student Advising System</h4>
                <h6 class="font-weight-light">Sign in to continue.</h6>
                <form class="pt-3" id="login" method="post" name="login">
                  <div class="form-group">
                    <input type="text" class="form-control form-control-lg" placeholder="enter your
username" required="true" name="username" value="<?php if(isset($_COOKIE["user_login"]))
{ echo $_COOKIE["user_login"]; } ?>" >
                  </div>
                  <div class="form-group">
                    <input type="password" class="form-control form-control-lg" placeholder="enter
your password" name="password" required="true" value="<?php
if(isset($_COOKIE["userpassword"])) { echo $_COOKIE["userpassword"]; } ?>">
                  </div>
                  <div class="mt-3">
                    <button class="btn btn-success btn-block loginbtn" name="login"
type="submit">Login</button>
                  </div>
                  <div class="my-2 d-flex justify-content-between align-items-center">
                    <div class="form-check">
                      <label class="form-check-label text-muted">
                        <input type="checkbox" id="remember" class="form-check-input"
name="remember" <?php if(isset($_COOKIE["user_login"])) { ?> checked <?php } ?> /> Keep
me signed in </label>
                      </div>

```



```

}
?>
<!-- Original Author Name: Mayuri.K.
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Visit website : https://mayurik.com -->
    <!-- partial:partials/_navbar.html -->
    <?php include_once('includes/header.php');?>
    <!-- partial -->
    <div class="container-fluid page-body-wrapper">
        <!-- partial:partials/_sidebar.html -->
        <?php include_once('includes/sidebar.php');?>
        <!-- partial -->
        <div class="main-panel">
            <div class="content-wrapper">
                <div class="page-header">
                    <h3 class="page-title"> Search Student </h3>
                    <nav aria-label="breadcrumb">
                        <ol class="breadcrumb">
                            <li class="breadcrumb-item"><a href="dashboard.php">Dashboard</a></li>
                            <li class="breadcrumb-item active" aria-current="page"> Search Student</li>
                        </ol>
                    </nav>
                </div>
                <div class="row">
                    <div class="col-md-12 grid-margin stretch-card">
                        <div class="card">
                            <div class="card-body">
                                <form method="post">
                                    <div class="form-group">
                                        <strong>Search Student:</strong>

                                        <input id="searchdata" type="text" name="searchdata" required="true"
class="form-control" placeholder="Search by Student ID"></div>

                                        <button type="submit" class="btn btn-primary" name="search"
id="submit">Search</button>
                                    </form>
                                <div class="d-sm-flex align-items-center mb-4">

                                    <?php
if(isset($_POST['search']))
{

$sdata=$_POST['searchdata'];
?>

```

```
<h4 align="center">Result against "<?php echo $sdata;?" keyword </h4>
```

```
</div>
```

```
<div class="table-responsive border rounded p-1">
```

```
<table class="table">
```

```
<thead>
```

```
<tr>
```

```
<th class="font-weight-bold">S.No</th>
```

```
<th class="font-weight-bold">Student ID</th>
```

```
<th class="font-weight-bold">Student Class</th>
```

```
<th class="font-weight-bold">Student Name</th>
```

```
<th class="font-weight-bold">Student Email</th>
```

```
<th class="font-weight-bold">Admissin Date</th>
```

```
<th class="font-weight-bold">Action</th>
```

```
</tr>
```

```
</thead>
```

```
<tbody>
```

```
<?php
```

```
if (isset($_GET['pageno'])) {
```

```
    $pageno = $_GET['pageno'];
```

```
} else {
```

```
    $pageno = 1;
```

```
}
```

```
// Formula for pagination
```

```
$no_of_records_per_page = 5;
```

```
$offset = ($pageno-1) * $no_of_records_per_page;
```

```
$ret = "SELECT ID FROM tblstudent";
```

```
$query1 = $dbh -> prepare($ret);
```

```
$query1->execute();
```

```
$results1=$query1->fetchAll(PDO::FETCH_OBJ);
```

```
$total_rows=$query1->rowCount();
```

```
$total_pages = ceil($total_rows / $no_of_records_per_page);
```

```
$sql="SELECT tblstudent.StuID,tblstudent.ID as
```

```
sid,tblstudent.StudentName,tblstudent.StudentEmail,tblstudent.DateofAdmission,tblclass.ClassN
```

```
ame,tblclass.Section from tblstudent join tblclass on tblclass.ID=tblstudent.StudentClass where
```

```
tblstudent.StuID like '$sdata%' LIMIT $offset, $no_of_records_per_page";
```

```
$query = $dbh -> prepare($sql);
```

```
$query->execute();
```

```
$results=$query->fetchAll(PDO::FETCH_OBJ);
```

```
$cnt=1;
```

```
if($query->rowCount() > 0)
```

```
{
```

```
foreach($results as $row)
```

```
{
```

```
    ?>
```

```

        <tr>
            <td><?php echo htmlentities($cnt);?></td>
            <td><?php echo htmlentities($row->StuID);?></td>
            <td><?php echo htmlentities($row->ClassName);?> <?php echo
htmlentities($row->Section);?></td>
            <td><?php echo htmlentities($row->StudentName);?></td>
            <td><?php echo htmlentities($row->StudentEmail);?></td>
            <td><?php echo htmlentities($row->DateofAdmission);?></td>
            <td>
                <div><a href="edit-student-detail.php?editid=<?php echo htmlentities
($row->sid);?>"><i class="icon-eye"></i></a>
                    || <a href="manage-students.php?delid=<?php echo
($row->sid);?>" onclick="return confirm('Do you really want to Delete ?');"> <i class="icon-
trash"></i></a></div>
            </td>
        </tr><?php
$cnt=$cnt+1;
} } else { ?>
<tr>
    <td colspan="8"> No record found against this search</td>

</tr>
<?php } }?>
    </tbody>
</table>
</div>
<div align="left">
<ul class="pagination" >
    <li><a href="?pageno=1"><strong>First</strong></a></li>
    <li class="<?php if($pageno <= 1){ echo 'disabled'; } ?>">
        <a href="<?php if($pageno <= 1){ echo '#'; } else { echo "?pageno=".( $pageno -
1); } ?>"><strong style="padding-left: 10px">Prev</strong></a>
    </li>
    <li class="<?php if($pageno >= $total_pages){ echo 'disabled'; } ?>">
        <a href="<?php if($pageno >= $total_pages){ echo '#'; } else { echo
"?pageno=".( $pageno + 1); } ?>"><strong style="padding-left: 10px">Next</strong></a>
    </li>
    <li><a href="?pageno=<?php echo $total_pages; ?>"><strong style="padding-left:
10px">Last</strong></a></li>
</ul>
</div>
</div>
</div>
</div>
</div>

```

```

        </div><!-- Original Author Name: Mayuri.K.
for any PHP, Codeignitor, Laravel OR Python work contact me at mdkhairnar92@gmail.com
Visit website : https://mayurik.com -->
        <!-- content-wrapper ends -->
        <!-- partial:partials/_footer.html -->
        <?php include_once('includes/footer.php');?>
        <!-- partial -->
    </div>
    <!-- main-panel ends -->
</div>
<!-- page-body-wrapper ends -->
</div>
<!-- container-scroller -->
<?php } ?>
<!DOCTYPE html>
<html lang="en">
<head>

    <title>Online Student Advising System|| Update About Us</title>
    <!-- plugins:css -->
    <link rel="stylesheet" href="assets/vendors/simple-line-icons/css/simple-line-icons.css">
    <link rel="stylesheet" href="assets/vendors/flag-icon-css/css/flag-icon.min.css">
    <link rel="stylesheet" href="assets/vendors/css/vendor.bundle.base.css">
    <!-- endinject -->
    <!-- Plugin css for this page -->
    <link rel="stylesheet" href="assets/vendors/daterangepicker/daterangepicker.css">
    <link rel="stylesheet" href="assets/vendors/chartist/chartist.min.css">
    <!-- Plugin css for this page -->
    <link rel="stylesheet" href="assets/vendors/select2/select2.min.css">
    <link rel="stylesheet" href="assets/vendors/select2-bootstrap-theme/select2-
bootstrap.min.css">
    <script src="assets/vendors/js/vendor.bundle.base.js"></script>
    <!-- End plugin css for this page -->
    <script type="text/javascript"
src="//translate.google.com/translate_a/element.js?cb=googleTranslateElementInit"></script>
    <script type="text/javascript">
        function googleTranslateElementInit() {
            new google.translate.TranslateElement({pageLanguage: 'en'}, 'google_translate_element');
        }
    </script>
    <!-- Original Author Name: Mayuri K.
for any PHP, Codeignitor, Laravel OR Python work contact me at mayuri.infospace@gmail.com
Visit website : www.mayurik.com -->
    <!-- Layout styles -->
    <link rel="stylesheet" href="assets/css/style.css" />
    <script src="http://js.nicedit.com/nicEdit-latest.js" type="text/javascript"></script>

```

```

    <script type="text/javascript">bkLib.onDomLoaded(nicEditors.allTextAreas);</script>
    <script type="text/javascript">
function checkpass()
{
if(document.changepassword.newpassword.value!=document.changepassword.confirmpassword.
value)
{
alert('New Password and Confirm Password field does not match');
document.changepassword.confirmpassword.focus();
return false;
}
return true;
}
}
</script>
</head>
<body>
    <div id="page"></div>

    <div class="container-scroller">
<nav class="navbar default-layout-navbar col-lg-12 col-12 p-0 fixed-top d-flex flex-row">
    <div class="navbar-brand-wrapper d-flex align-items-center">

        </div><?php
            $aid= $_SESSION['sturecmsaid'];
            $sql="SELECT * from tbladmin where ID=:aid";

            $query = $dbh -> prepare($sql);
            $query->bindParam(':aid',$aid,PDO::PARAM_STR);
            $query->execute();
            $results=$query->fetchAll(PDO::FETCH_OBJ);

            $cnt=1;
            if($query->rowCount() > 0)
            {
            foreach($results as $row)
            {
                ?>
                <div class="navbar-menu-wrapper d-flex align-items-center flex-grow-1">
                    <h5 class="mb-0 font-weight-medium d-none d-lg-flex mx-auto">Online Student
                    Advising System</h5>
                    <div id="google_translate_element" class="ml-auto"></div>

                    <ul class="navbar-nav navbar-nav-right ml-auto">
                        <li class="nav-item dropdown d-none d-xl-inline-flex user-dropdown">
                            <a class="nav-link dropdown-toggle" id="UserDropdown" href="#" data-
                            toggle="dropdown" aria-expanded="false">

```

```

         <span class="font-weight-normal"> <?php echo
htmlentities($row->AdminName);?> </span></a>
        <div class="dropdown-menu dropdown-menu-right navbar-dropdown" aria-
labelledby="UserDropdown">
            <div class="dropdown-header d-flex">
                
                <div><p class="mb-1 mt-3"><?php echo htmlentities($row->AdminName);?></p>
                <p class="font-weight-light text-muted mb-0"><?php echo
htmlentities($row->Email);?></p> </div>

            </div><?php $cnt=$cnt+1; } } ?>
            <a class="dropdown-item" href="profile.php"><i class="dropdown-item-icon icon-
user text-primary"></i> My Profile</a>
            <a class="dropdown-item" href="change-password.php"><i class="dropdown-item-
icon icon-energy text-primary"></i> Change Password</a>
            <a class="dropdown-item" href="logout.php"><i class="dropdown-item-icon icon-
power text-primary"></i> Sign Out</a>
        </div>
    </li>
</ul>
    <button class="navbar-toggler navbar-toggler-right d-lg-none align-self-center"
type="button" data-toggle="offcanvas">
        <span class="icon-menu"></span>
    </button>
</div>
</nav>
<nav class="sidebar sidebar-offcanvas" id="sidebar">
    <ul class="nav">
        <!-- <li class="nav-item nav-profile">
            <a href="#" class="nav-link">
                <div class="profile-image">
                    
                    <div class="dot-indicator bg-success"></div>
                </div>
                <div class="text-wrapper"> -->
                    <?php
                    // $aid= $_SESSION['sturecmsaid'];
                    // $sql="SELECT * from tbladmin where ID=:aid";

                    // $query = $dbh -> prepare($sql);
                    // $query->bindParam(':aid',$aid,PDO::PARAM_STR);
                    // $query->execute();
                    // $results=$query->fetchAll(PDO::FETCH_OBJ);

```

```

// $cnt=1;
// if($query->rowCount() > 0)
// {
// foreach($results as $row)
// {
//         ?>
//         <!-- <p class="profile-name"><?php // echo
htmlentities($row->AdminName);?></p>
//         <p class="designation"><?php //echo htmlentities($row->Email);?></p> --><?php
//$cnt=$cnt+1;} ?>
//         <!-- </div>

//         </a>
//         </li> -->

//         <li class="nav-item">
//         <a class="nav-link" href="dashboard.php">
//         <i class="icon-home menu-icon"></i>
//         <span class="menu-title">Dashboard</span>

//         </a>
//         </li>

//         <li class="nav-item">
//         <a class="nav-link" data-toggle="collapse" href="#ui-basic" aria-expanded="false" aria-
controls="ui-basic">
//         <i class="icon-layers menu-icon"></i>
//         <span class="menu-title">Class</span>
//         </a>
//         <div class="collapse" id="ui-basic">
//         <ul class="nav flex-column sub-menu">
//         <li class="nav-item"> <a class="nav-link" href="add-class.php">Add Class</a></li>
//         <li class="nav-item"> <a class="nav-link" href="manage-class.php">Manage
Class</a></li>
//         </ul>
//         </div>
//         </li>
//         <li class="nav-item">
//         <a class="nav-link" data-toggle="collapse" href="#ui-basic1" aria-expanded="false"
aria-controls="ui-basic1">
//         <i class="icon-people menu-icon"></i>
//         <span class="menu-title">Students</span>
//         </a>
//         <div class="collapse" id="ui-basic1">
//         <ul class="nav flex-column sub-menu">

```

```

        <li class="nav-item"> <a class="nav-link" href="add-students.php">Add
Students</a></li>
        <li class="nav-item"> <a class="nav-link" href="manage-students.php">Manage
Students</a></li>
        </ul>
    </div>
</li>
<!-- Original Author Name: Mayuri K.
for any PHP, Codeignitor, Laravel OR Python work contact me at mayuri.infospace@gmail.com
Visit website : www.mayurik.com -->
    <li class="nav-item">
        <a class="nav-link" data-toggle="collapse" href="#auth" aria-expanded="false" aria-
controls="auth">
            <i class="icon-doc menu-icon"></i>
            <span class="menu-title">Student Advice</span>

        </a>
        <div class="collapse" id="auth">
            <ul class="nav flex-column sub-menu">
                <li class="nav-item"> <a class="nav-link" href="add-notice.php">Add Student
Advice</a></li>
                <li class="nav-item"> <a class="nav-link" href="manage-notice.php"> Manage
Student Advice </a></li>
            </ul>
        </div>
    </li>
    <li class="nav-item">
        <a class="nav-link" data-toggle="collapse" href="#auth1" aria-expanded="false" aria-
controls="auth">
            <i class="icon-doc menu-icon"></i>
            <span class="menu-title">Public Notice on Advice</span>
        </a>
        <div class="collapse" id="auth1">
            <ul class="nav flex-column sub-menu">
                <li class="nav-item"> <a class="nav-link" href="add-public-notice.php"> Add Public
Notice </a></li>
                <li class="nav-item"> <a class="nav-link" href="manage-public-notice.php">
Manage Public Notice </a></li>
            </ul>
        </div>
    <!-- <li class="nav-item">
        <a class="nav-link" data-toggle="collapse" href="#auth2" aria-expanded="false" aria-
controls="auth">
            <i class="icon-docs menu-icon"></i>
            <span class="menu-title">Pages</span>

```

```

    </a>
    <div class="collapse" id="auth2">
      <ul class="nav flex-column sub-menu">
        <li class="nav-item"> <a class="nav-link" href="about-us.php"> About Us </a></li>
        <li class="nav-item"> <a class="nav-link" href="contact-us.php"> Contact Us
</a></li>
      </ul>
    </div>
</li> -->
<li class="nav-item">
  <a class="nav-link" href="between-dates-reports.php">
    <i class="icon-flag menu-icon"></i>
    <span class="menu-title">Reports</span>
  </a>
</li>
<li class="nav-item">
  <a class="nav-link" href="search.php">
    <i class="icon-magnifier menu-icon"></i>
    <span class="menu-title">Search</span>
  </a>
</li>

</li>
</ul>
</nav>

```

```

<!-- endinject -->
<!-- Plugin js for this page -->
<script src="assets/vendors/select2/select2.min.js"></script>
<script src="assets/vendors/typeahead.js/typeahead.bundle.min.js"></script>
<!-- End plugin js for this page -->
<!-- inject:js -->
<script src="assets/vendors/chart.js/Chart.min.js"></script>
<script src="assets/vendors/moment/moment.min.js"></script>
<script src="assets/vendors/daterangepicker/daterangepicker.js"></script>
<script src="assets/vendors/chartist/chartist.min.js"></script>

<script src="assets/js/off-canvas.js"></script>
<script src="assets/js/bootstrap.min.js"></script>
<!-- endinject -->
<!-- Custom js for this page -->
<script src="assets/js/typeahead.js"></script>

```

```

<script src="assets/js/select2.js"></script>
<script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>
<!-- <script src="assets/js/dashboard.js"></script> -->
<!-- End custom js for this page -->
<script>
  function onReady(callback) {
    var intervalID = window.setInterval(checkReady, 1000);
    function checkReady() {
      if (document.getElementsByTagName('body')[0] !== undefined) {
        window.clearInterval(intervalID);
        callback.call(this);
      }
    }
  }

function show(id, value) {
  document.getElementById(id).style.display = value ? 'block' : 'none';
}

onReady(function () {
  show('page', true);
  show('loading', false);
});
</script>
</body>
</html>

```