

**DESIGN AND IMPLEMENTATION OF ONLINE CLEARANCE
SYSTEM FOR GRADUATING STUDENTS**

For Auchi Polytechnic, Auchi

BY

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**BEING A PROJECT SUBMITTED TO THE DEPARTMENT OF
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THE AWARD OF HIGHER NATIONAL DIPLOMA (HND)
IN COMPUTER SCIENCE**

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CERTIFICATION

We the undersigned hereby certify that this project was carried out by **OPARA MARYJANE CHINONSO** with Matriculation Number **ICT/** of the Department of Computer Science.

We certify that the work is adequate in scope and quality in partial fulfillment of the requirements of the award of Higher National Diploma (HND) in Computer Science.

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Date

DEDICATION

This work is dedicated to God for his enabling grace, and to computer enthusiasts who help to make life a pleasant experience.

ACKNOWLEDGEMENT

I owe my indebtedness to my supervisor **MRS CAMPBELL P.I** head of department **Mr. AKHETUAMEN SYLVESTER**, the lecturers in the department of computer science (CS), book authors and profound scholars of existing/related research work for your moral support that facilitated the successful completion of my Higher National Diploma in Computer Science. I am grateful to God Almighty, my parents **MR AND MRS OPARAANYANWU DESMOND ,MRS OPARA AMARACHI, MISS ANYANWU CHIONA, ANYANWU ANTONY, MR PATRIC OTTAH** my amiable friend Miss **OGWU UDOKA, OSANA MARVIS** for their support in my career. I really appreciate you for everything, thank you very much.

ABSTRACT

The online clearance system for graduating is an internal-based study initiative that will help facilitate the queuing system in clearance process of the polytechnic. The online clearance system can provide an efficient handing of information that is very easy for polytechnic to use since it is internet- based and can be viewed from anywhere and at any time. The computer based architecture in this project was introduced using the PHP language, CSS, HTML and the software database as MYSQL. The program created would act as more effective and productive way of clearing students, eliminating all type of delay and tension,as well as helping you to understand the process involved, as well as how to do your online clearance. This research work uses the compilation of data from Auchu polytechnic,the materials and the program has been designed to accomplish the project objective effectively .Objective of the existing system is to unable student to pay all their fees before leaving the school. Some levy's are charge for processing student file and other dues or otherwise. The clearance system is design to help student pay all their dues and obtain clearance certificate.

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CHAPTER ONE

INTRODUCTION

1.1 BACKGROUND OF STUDY

The past and present scenario in the student clearance method is that the processes are done by moving from one office to another and having records on paper. Every clearance task is done manually. This creates a system unreliable and confusing to keep the correct track of the records and can be very overwhelming and stressful to say the least. At the conclusion of the academic session, a clearance form as we know it today is commonly used. Student has to apply for clearance from their respective department if the students need to exit the school. This system automates the manual activities of the clearance process. A student can carry out clearance form from anywhere and at any time and contains all the form features of the manual clearance system and even more. The process of data protection has to be automated in multiple polytechnics, so there is a stronger need for an online clearance scheme. In alleviating the different issues and stress involved in the manual clearance process, this will go a long way.

In schools, there is need for automated method of keeping data, more so greater need for an automatic student clearance system. This would go a long way in alleviating the various problems and stress involved in the manual method of student clearance in the institution. Hence it became imperative for the student clearance system to eliminate the shortcoming of the manual system in place.

These days every sector is known with the word-computer. We can find computers at everywhere around us. In fact modern world will be incomplete without computers and their applications.

It's almost impossible to even imagine the modern facilities without the use of computers. For many individuals computer means PC, on which they can see movies, play games, prepare office sheets and manage daily planners. But this is just a page of the book of computers.

On the other hand, computers are also used in conducting simple operations like billing, ticket transactions, record maintenance, security analysis etc. and even personal computer (PC) are also used to do home based general activities like office sheet maintenance, day planner, entertainment etc. So computers are involved in every sector of life with different forms and different applications.

In modern word everything around us like GPS, ATM Machines, cell phones petrol pumps, portable play stations and all other modern devices use computer controlling units to conduct their feature operations. It is necessary to implement this new mode of operation in the clearance department so that it enhances student's records to be efficient and free from error. The whole entire clearance process will be forwarded, along with the required documents to the section of the clearance departments to the section of the clearance department for the evaluation, the lecturers and staff committee will have right to decide that which student to graduate.

1.2 STATEMENT OF THE PROBLEM

The process of clearing students after their graduation entails that the student is been cleared in various departments and information units among which are:

- Departmental dues
- Library fines and overdue of list pf library materials from the polytechnic
- Residence hall damage charges
- Security
- Bursary and all others

For a graduating student to carry out his/her clearance from these departments, and after the information is no more to be found is a waste of time and efforts.

Furthermore, for a graduating student to carry out his/her clearance from all these departments it normally takes a lot of time and a lot of processes and delay in clearing the student for youth service as well as collections of statement of results. Hence, it becomes imperative for this online clearance system to eliminate the shortcomings of the manual system in place.

1.3 AIM AND OBJECTIVES OF THE STUDY

The aim of this study is to design and implement an online clearance system for graduating students in Auchi Polytechnic. The objectives include the following:

- To effectively and efficiently process students clearance
- To provide a reliable and transparent system devoid of personal inclination and interest
- To provide borderless access
- To ensure prompt clearance
- To alleviate the problems and stress of travelling and queuing up of students during clearance.

1.4 SCOPE OF THE STUDY

This online clearance system is developed for Auchi polytechnic, Auchi only and might not fit into other similar systems perfectly and would be called APCS (Auchi Polytechnic Clearance System).

1.5 SIGNIFICANT OF THE STUDY

This study will help in a good number of ways to ease the queuing system in Auchi Polytechnic as the online clearance system will help students to achieve whatever they want to achieve without coming to the various offices for clearance.

Clear advantages of internet information processing over those of traditional manual system are higher yield. Online clearance system allows the student to check their clearance status as whether they are in any way indebted to the school, fill and submit their clearance form, and obtain their clearance letter. There are many advantages of online clearance system and some of them are listed below:

- It saves a lot of time
- It is very convenient to use it right from the bedroom, office or anywhere in the world.
- Information processing is very fast and delay can be avoided
- It is very inexpensive to student and the school managements
- It also help the school in reducing cost such as labor and stationary

1.6 LIMITATION OF THE STUDY

Some of the constraints of the study include the following:

- Time
- Power supply
- Data collection process
- Financial constraint

1.7 DEFINITION OF TERMS

Clearance: Is the certification of blamelessness, trustworthiness, faithfulness or suitability.

System: An assembly of interrelated elements which we find interesting to study, it could be a process or machine.

Graduating Student: Is a student that has completed his/her ND or HND program in their various departments.

Computer Network: Computer network is a system that connects two or more computers together using a communication link.

World Wide Web: World Wide Web simply called “www” is the most important tools of the internet; it was created in the 1980’s in Europe and was limitedly used in academics cycle.

File Transfer: Any kind of computer file can be sent via the internet from one internet user to another. Table of account in a spreadsheet, design by a graphic artist, music and sound files etc can all be exchanged in this way.

Web Browser: This is a special kind of software that processes hypertext markup language (HTML) document. In otherwords, a web browser is a computer program that interprets HTML, command to collect, arranged and displays the parts of a web page.

Hyperlinks: Hyperlink is highlighted words and phrase you find on a document that you can click on to jump to some other document or web pages

Web Site: A web site is a collection of many interrelated web page organized be a specific college, organization, etc, containing web page (good and commodities) on the internet. Web site is stored on a web server. There are many web sites and thousands of HTML, pages on each web site. A web is a treasure of information and entertainment.

Online: Connected via a computer or available via a central computer network.

Offline: Disconnected from computer network, described a computer terminal of peripheral devices disconnected from a computer network.

CHAPTER TWO

INTRODUCTION TO LITERATURE REVIEW

2.0 LITERATURE REVIEW

By definition, clearance is a status granted to individual, typically members of military, university graduates and employees of governments and their contractors, allowing the access to classified information. The term “clearance” is also used in private organizations that have a formal method to vet employees for access to sensitive information. Clearance can refer to authorization or permission from an authority (Anigbogu, 2000; Chimezie, 2000; Wikipedia 2013).

The act of clearing an individual involves granting the individual permission to have access to sensitive or secret documents or other information. The Oxford Dictionary defines “online” as controlled by or connected to a computer and as an activity or service which is available or performed using the internet or other computer network (Dictionary of British and World English, 2015). As people of this generation become more dependent on the internet for information, the need for automated clearance becomes more apparent.

Online clearance is now used in various academics institution both locally and internationally for various clearance, for instance, online hotel accommodations, UTME online clearance exercise, online admission exercise, online graduating clearance exercise, and National Youth Service Corp (NYSC) mobilization exercise to mention but a few. The admission process of students is strictly done online in higher institutions, where physical presence of the admitted candidates is not required in the premises during the clearance exercise as it is strictly online while in some universities in Nigeria such as University of Ibadan, University of Ilorin, ect.

Tai Solarin University of Education, the admission processes are done online, and physical presence of candidates is needed for other admission clearance exercise. Online clearance system has been employed by international Islamic University for vetting graduating students

Improvement of information and communication technology has made time and space more complex and could be seen that this modern age is the age of information boom in which an average individual wants to explore the information system. Thus, the capability for timely acquisition, utilization, communication, and retrieval of relevant and accurate information has become an important attribute for better teaching and learning processes (Adebayo, 2008). The uses of ICT in educational arena are not limited to teaching and learning situation alone, but also extend to the administrative assignments. One of such administrative tasks is the development of a web based clearance system called online clearance.

In school, like AUCHI POLYTECHNIC AUCHI, there is need for automated method of data keeping, so a greater need for an automated online clearance system. This will go a long way in alleviating the various problems and stress involved in the manual method of clearance. Also, the issue of delay in youth service as a result of inability to complete the tedious manual processing of clearance will be curtailed.

The focus of this research therefore is to provide a reliable and transparent system devoid of personal inclination and interest, to eliminate travelling and queuing of students during clearance in the study university, Polytechnics and to serve as a reference material to other researchers. When a student is about to graduate in AUCHI POLYTECHNIC AUCHI, Edo State, Nigeria, student will take their degree exam after which he obtains a clearance form from Exams and Record Unit of the University after the payment of all necessary dues.

This form will have to be certified at various departments and units including bursary, library, candidate's department, hostel units, and the Polytechnic health centre. The bursary department will have to first certify that the student has completed payment while the library will have to check if the student has any pending textbook or library material within his or her disposition, and so, in summary, the current final clearance system of the university is a manual one. This makes the system so tedious and time consuming. In this case, student will have to visit all clearance offices with a form for them to sign. Once the form is fully signed, it proves that the student has been cleared.

In the manual system, the clearance forms are documented in a file cabinet. Each time the clearance form is needed, a search operation is conducted on the file cabinets to locate a particular student's clearance form. To alleviate this problem, there is need to develop an efficient web-based platform that is reliable and cost effective, which can manage the process efficiently. Clearance is a certificate giving permission for something to be done. In higher institution of learning, final year student that have satisfied the academic requirements to graduate must undergo a clearance process before they disengage from the institution. The above fact prompted the development of a web based database-driven student's clearance system by Agbo-Ajala and Makinde (2015). The system was developed using PHP and MYSQL, and is aimed at eliminating the delays associated with the manual process of final clearance. In similar manner, Umezinwa, Uwakwe and Abode (2015) developed online clearance system for final year clearance of Imo State University using PHP, JAVASCRIPT, CSS, APACHE, and MYQSL for the database.

The above system was able to process data with great speed and also replaces the error-prone manual clearance system. Zuhaib (2013) supervised a project on the development of online clearance system using ASP.Net to create

interface of the system. The system which was implemented at Quest University Nawabshah contain database that can store all the require information of students for clearance certificate via web pages.

Awuzie (2013) summarizes the advantage of online clearance system to include:

- i. It saves a lot of time
- ii. It is very convenient to use anywhere and at any time e.g., office, bedroom or anywhere in the world
- iii. Information processing is very fast and delay can be avoided
- iv. It is less expensive to student and to the managements.
- v. It also helps the school in reducing cost such as labour and stationary.

As many universities have chosen to pursue the dynamic educational options available on web pages (online), the advantages of e0learning cannot be over emphasized. According to Cox (2005), online system is presents as an efficient means of conveying instruction to an extensive learning community any place at any time. Indicating that adequate attention be designated to online learning as it serves as the driving force and model for transformation of teaching, learning, and formal schooling. Environmental Education and training Partnership (2006) posit that, online course has the potential to provide learner individualized attention by the instructor. This is otherwise impossible in a large classroom environment.

With the continued development of online system application, many colleges and universities have began to offer online courses as an alternative to traditional face-to-face instructions. Hillstock (2005) reports that 67% of colleges and universities agreed that online education are the most logical long-term strategies for their institutions. However, there are considerable hesitations rising predominantly related to quality and student respectively to online system, (Yong

and Conellus, 2004). Just as there are advantages, there are also disadvantages to the online system instruction delivery method. This is very evident through previous research that student feels isolated and disconnected when not engaged in traditional face-to-face instruction. (Guhu, 2001; Graham, 2001), while other report indicate large success (Hoffman, 2002; Kaczynski and Kelly, 2004; Meyer, 2006), there remains a lack of clarity whether online course are effective as traditional courses (Peirier and Feldman, 2004).

2.1 DATA AND INFORMATION

The concept of data and information are very important in understanding issues that go with development and implementation of online clearance system for graduating students. The term “data’ and “information” are used interchangeably every day conversation as meaning the same thing. Too many managers and information specialist however, the terms have distinct meaning. According to O’Leary (2002) data simply consist of raw unprocessed facts while information is a data that have been processed by the computer. Hordeski (2002) gives the following definition of data; a graphic or textual representation of facts concept, number, letters, symbols or instructions suitable for communication, interpretation or processing.

Data is basically element of information that is use to described objects, ideas, conditions or situations.

Lucy(2010) defines data and information as Data is fact events, transactions and so on, which have been recorded. They are the raw material from which information is produced. Information is data that has been produced in such a way to be useful to the recipient. Data are fact obtained by observations, counting, measuring, weighing etc, which are often records of day-to-day transactions of the organization.

For example, the date, amount and other details of an invoice or cheque, payroll details of payment, the number of students living in a particular hostel and so on. Enwerem (2003) argue that concept of information in an organization sense in more complex and difficult that the frequent use of this common word would suggest.

Oketunji (2002) emphasized that information is data that have been processed, transmitted by the recipient, interpreted and understood by the recipient. Here it should be noted that the user, not just the sender is involved in the transformation of data into information. There is a process or thought and understanding involved and it follows that a given message can have different meaning to different people. Based on this, one can conclude that data which has been analyzed summarized or processed in some other fashion to produce a message or report which is conveniently deemed “management information” only becomes information if it is understood by the recipient. Therefore, it is the user who determines whether a report contains information or just processed data.

2.2 TECHNOLOGY ENHANCE ONLINE CLEARANCE SYSTEM

According to Jeremy V Ernest (2013), gives a comparison of traditional and hybrid online system in communication technology. Online clearance system has becomes a central element of the discourse on higher education (Cox, 2016). There seems to be an overall derive towards online clearance system given the mountain need for flexibility in scheduling and the daily emergency of communication technology and capabilities (Hillstock, 2014).

Online clearance system is presented as a means of conveying instruction to an extensive learning community any place at any time Cox (2016). Indicate that adequate designate online learning as the driving force and model for transformation in teaching, learning and formal schooling online course has the

potential to provide learner individualized attention by the instructor, otherwise impossible in a large classroom environment (Environmental Education and Training Partnership 2017).

While there has been vast amount of research conducted on the advantages and disadvantages of online system institution, little is known on how assessment is used in online classroom to monitor performance and progress (Liang and Jeremy V Ernest, Jeremy_enrest@NCSU.edu) is an assistant professor in the department of mathematics science and technology education at North Carolina State University Ralugh.

Journal of technology education volume 19 No. 2 spring 2008 (Creasy (2012), described the evaluation of current online education system at three levels; the macro level, the meso level and the micro level. The macro level is an online evaluation accessing an entire online program. The meso level evaluation access individual online course. And the micro level accesses the learning of the online student.

Online clearance system presents educational experience very different from standard face-to-face environment. Hew, et al, (2011), When conducting a micro level courses evaluation, interest commonly lies in learner perception of course experience pertaining to the level of comfort, ability to communicate with classmates and the instructor, as well as comparison to traditional face-to-face.

Many times, the only means of evaluating learner's perception is the form of questionnaire or survey. Although, perception of online system can be extremely useful information, it is usually not sufficient to conclude the evaluation without expanding to learners understanding.

2.3 COMPUTER-BASED ONLINE INFORMATION SYSTEM

An information specialist Lucey (1991) defines computer based management information system as: the combination of human and computer base resources that results in the collection, storage, retrieval, communication and use of data fro the purpose of efficient management of operations and for business planning.

Computer based information system is a feature of all large organization nowadays. The literature identifies four kinds of computer based information: TransactionProcessing System (TPS), Management Information System (MIS), Decision Support System (DSS), and Executive Support System (ESS).

Some system record routine activities: employees hired, material purchased or produced and the like. Such recorded events are called transactions. Other system uses this recorded event to help managerial planning and control. The systems form a pyramid each primarily supporting one another level of management.

- a. **Transaction Processing System (TPS):** These system record day-to-day transactions such as customer order, bills inventory levels and production output. The TPS helps supervisors by generating database that act as foundation for other information system.
- b. **Management Information System (MIS):** These summarize the detailed data of the transaction processing system standards report for middle level managers. Such report might include production schedules and budget summaries.
- c. **Decision Support System (DSS):** The DSS provide the tools for analyzes. The DSS help middle level managers and other in the organization analyze a wide range of problem, such as effect of event and trend outside the

organization. Like the MIS, the DSS draws on the detailed data of transaction processing system

- d. Executive Support System (ESS):**The ESS is easy-to-use system that presented information in a very highly summarized form. It helps top level management to oversee the company operation and develop strategic plans. The ESS combines internal data from TPS and MIS with external data.

2.4 DATABASE

In the early days of computerization, it was normal to maintain specific files for individual application. Data were processed centrally in batches and there was little or no online interrogation of data. This approach is wholly inefficient for most of today's data processing system. Supporting this Vossen (2010) enumerated the problems that result from organizing the data using file system.

- a.** There exist high redundancies between file which result from the fact that the information is replicated in different places and that these replications are not controlled by a central monitor.
- b.** Inconsistencies might result from the possibilities that a program makes changes on the files it uses without these changes being made (at the same time) by all other programs that uses the files
- c.** There exist in flexibility against changes in the applications if new action or event arise in the cause of time. These can be realize at a substantial expense of time.
- d.** The work of many programmers involved is characterize by low productivity, seems program maintenance is expensive if the structure of an existing file has to be modify during it life time, then all application program has to be modify correspondently.

- e. Finally, there is problem of adopting and maintaining standard (with respect to coding data format etc), which is important for migration to new operating system released, or even to a new computer system.

To overcome these problems, database were developed. It is now common for large organization to organize their operational data using the database technology.

The subject of data is adequately covered in many work in database technology, Clifton (1983) briefly define database as a collection of data supporting the operation of an organization. Quoting CIMA, Lucey (2011) provide a more detailed definition. A database is a file of data structure organized in such a way that it may serve a number of application without its structure being dictated by any one of those application, the concept being that programs are written round the database rather than files being structure to meet the need of a particular program.

Russel M, (2008) dealt extensively on the need for the use of computer on such database system like computerized clearance system. In the world of Dimorji (2008), “At the center of any information system is a database, which is any collection of related information grouped together as a single item. The term can also apply to the ways in which information is catalogued, analyzed, stored and used manually.

Rossell (2012) was also of the view that without computer, effective handling of candidate record cannot be achieved effectively in a database. All the data are defined together rather than each file being separately. In fact, all the literature consulted seems to support the fact that a database is a collection of structured data with the structure of data being independent of any particular application. Specify the need for database. O’Leary (2010) listed the following advantages:

- a. **Sharing:** In an organization, information from one department can be readily share with others.
- b. **Security:** Users are giving password or access only to the kind information they need to know. Thus, the payroll department may have access to employees pay rate but they would not.
- c. **Fewer Files:**With several departments having access to one files, there are fewer files therefore, excess storage or what is called redundancy is reduced.
- d. **Data Integrity:** Older filling system many times did not have integrity i.e. a change made in the file in one department might not be made in the file in another department. As one might expect, these can cause serious problems and conflict when data is used for important decision affecting the department.

The advantages enumerated above are summarized below by Vossen (2009) at abbs.

- Standard/access protocols can be enforced
- Currency of data can be maintained.
- Data/program independent can be maintained.
- Conflicting requirement can be balanced among users.

In these days of integrated networks, the database appeared as the most logical method for organizing the operational data of large organizations. One may as well say that these advantages give the database the attraction over the tradition file processing method.

CHAPTER THREE

SYSTEM ANALYSIS AND DESIGN

3.0 ANALYSIS OF THE EXISTING SYSTEM

When a student is about to graduate, they take their final exam after which they obtain a clearance from various departments and unions. The registrar office carefully reviews each student academic records and certificate to department that the student has completed their requirement for the program. Also, the bursary has to certify that the student has completed all payment.

The current clearance system of the polytechnic is a manual one. These make the system tedious and time consuming. Here, student have to visit all the clearance offices with a form for them to sign, once this form are signed, it prove that the student has been cleared, the process take some days to be completed and posses a lot of stress to both the staff and student involved. In the manual system, the clearance forms are documented in a file cabinet. Each time the clearance form is needed, a search operation is conducted on the file cabinet to locate a particular student clearance form.

3.1 EVALUATION OF FORUM

Some forums that are necessary and available were accessed. These include:

- Clearance form
- Fee receipt
- Registration forms etc.

This forms helps in the design of the new system.

3.2 PROBLEM OF THE EXISTING SYSTEM

Due to the manual means been used by the polytechnic, keeping information about student clearance has encountered a lot of problem which include:

- Delay in processing clearance form.
- Unavailability of some key staffs while processing clearance form, which leads student repeatedly visiting a particular office in order to sign their clearance form.
- Loss of vital document as the filling system is manual
- Damage of document due to fire or rain incident
- Illegal removal of forms by fraudulent staff leading to insecurity
- Takes a lot of time to retrieve a particular clearance form

3.3 JUSTIFICATION FOR THE NEW SYSTEM

The new system is designed to solve problem affecting the manual system in use. It is design to be used online thereby relieving both student and staff from much stress as experienced from the manual system.

This will do the analyzing and storing of information either automatically or interactively, it will make use of online access to internet.

The proposed system will also have some other features like.

- Accuracy in handling of data
- Fast rate of operation and excellent response time.
- Flexibility (i.e.) it can be accessed at any time
- Easy way of back up or duplicating data in diskette in case of data loss.
- Better storage and faster retrieval system.
- Accessibility from any part of the world.

3.4 SYSTEM DESIGN

This new system is structured to work with the standard software development procedures. In order to achieve effective online clearance system, Structured System Analysis and Design Methodology (SSADM) were used.

This is because SSADM is an internationally accepted software engineering model mainly used in most result oriented analysis and design.

3.5 OUTPUT SPECIFICATION AND DESIGN

The sequence of the report is one of the important features that should be concluded. This is emphasized because it forms the basis of the school effective well document up-to-date and formatted output to help as a tool in planning and decision making/based on the student clearance form.

There method of generating reports in the new package.

- Hardcopy- This is a process of printing from the printer to paper, and
- Softcopy- It is the process of playing an output on the computer screen

The reports generated by the system include;

- Student clearance status
- Student clearance certificate

3.6 INPUT SPECIFICATION AND DESIGN

It is also necessary to denote that data inputted in the computer for processing determines what the output will be. Screen designed are generally or basically made for data entry or capture. Since data are captured from a hardcopy

form, the sequence of data capture should be identical to the hardcopy form made for data collection.

The new system is composed mainly of two forms of input for, they are:-

- a. Student registration form
- b. Clearance form

3.7 FILE DESIGN

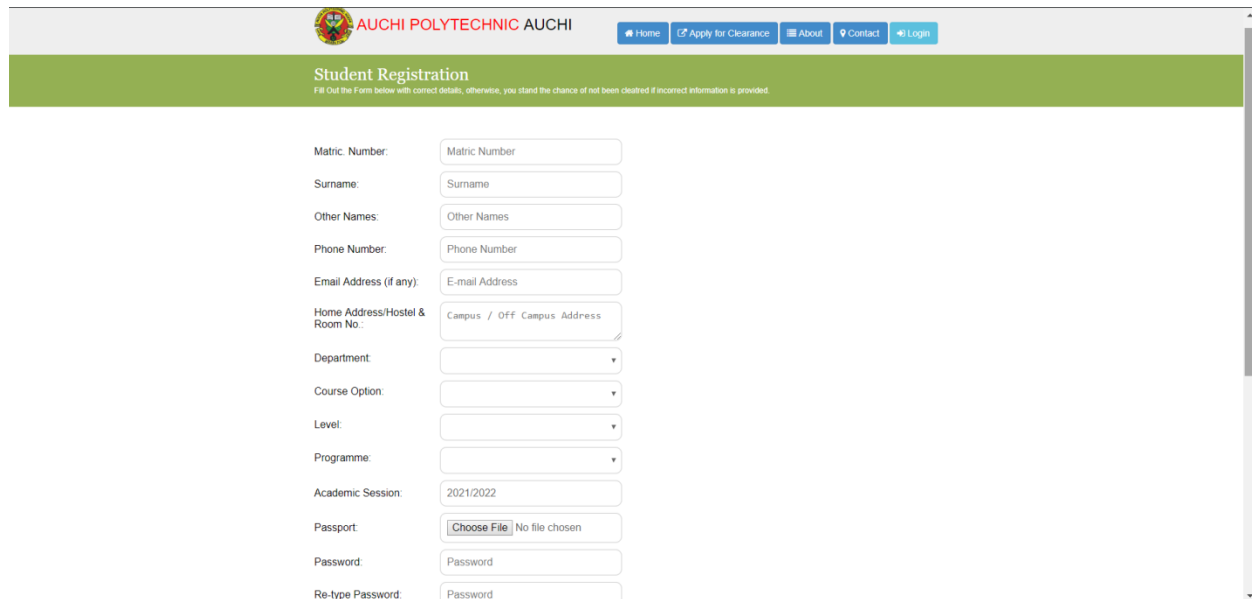
The file used in the design is stored in a database file. The database is created using Microsoft Access Database. The database structure is as follows:

3.7.1 STUDENT REGISTER DATABASE STRUCTURE

FIELD NAME	DATA TYPE	FIELD SIZE
Mat Number	VARCHAR	20
Surname	VARCHAR	20
Other Name	VARCHAR	50
Phone Number	VARCHAR	30
Email Address	VARCHAR	20
Address	VARCHAR	30
Department	VARCHAR	10
Course Option	VARCHAR	20
Level	VARCHAR	8

Table 1 *Student Registration Database Structure*

STUDENT REGISTRATION PAGE



Student Registration
Fill Out the Form below with correct details, otherwise, you stand the chance of not being cleared if incorrect information is provided.

Matric Number:

Surname:

Other Names:

Phone Number:

Email Address (if any):

Home Address/Hostel & Room No.:

Department:

Course Option:

Level:

Programme:

Academic Session:

Passport: No file chosen

Password:

Re-type Password:

3.7.2 STUDENT CLEARANCE DATABASE STRUCTURE

FILE NAME	DATA TYPE	FIELD SIZE
Surname	Text	20
First Name	Text	20
Reg. No	Text	30
Library	Single	4
Male Dean	Single	4
Security	Single	4
Department	Single	4
Exam and Record	Single	4
Date	Date/Time	8
Receipt	Text	20

Table 2 *Student Clearance Database Structure***STUDENT CLEARNACE PAGE**

The screenshot displays the student clearance page for AUCHI POLYTECHNIC AUCHI. At the top, there is a navigation bar with buttons for Home, Make Payment, Print Clearance, and Logout. Below this, a green banner greets the user: "Hello, MARYJANE OPARA! Matric Number: ICT/2252060003". The main content area is titled "My Profile" and contains the following information:

Department	COMPUTER SCIENCE
Course Option	COMPUTER SCIENCE
Level	HND
Programme	MORNING
Academic Session	2021/2022
Payment Status	PAID
Clearance Status	✓ CLEARED

A "Re-print Clearance" button is located at the bottom right of the profile section.

3.8 PROCEDURE

- i.** Main Menu
- ii.** About Us ---> About School ---> About Clearance
- iii.** Clearance ---> Registration
- iv.** Report ---> generate Form ---> Student Record
- v.** Exit

This procedure shows the step/procedure to follow in processing the online student clearance system. From the Main Menu, you will see About Us, Clearance, Report and then Exit. Now under the About Menu, you see everything about Auchi Polytechnic i.e., what the school is made of, their mission and vision, then under the Clearance Menu, you see registration; this is where you type in your data (i.e., everything about yourself, including department, level, etc.). Finally, under the

Report Menu, the report will now show whether you have completed the clearance, if YES you generate a card/form that shows that you have been cleared, If NO, you cannot generate any card because you have not been cleared. You will have to make payment online using the generated RRR. Then the student report will now show the cleared and un-cleared student, after that you can now quit/exit.

3.9 SYSTEM REQUIREMENT

The requirement needed to implement this system is as follows:

3.9.1 Hardware Requirement

For the effective operation of the newly designed system, the following minimum hardware specifications are recommended.

- The computer system in use should be IBM compatibility since they are considered clone system
- The Random Access Memory (RAM) should be at least 128KB
- The system should have a hard disk of at least 50GB and at least a diskette drive of high density of 1.44MB (3.5 inches)
- The system should be equipped with an E.G.A/V.G.A, a colored monitor
- An uninterruptible power supply (UPS) units.
- It should internet ready.

These listed configurations are minimum requirement but if the configurations are higher the report derived will definitely be better and the program will run much faster.

3.9.2 Software Requirement

The software specification required on the computer system is:

- A window XP or higher version for faster processing
- HTML
- Text Editor
- PHP
- MYSQL
- Apache Server 2.5
- Fire Works
- Mozilla or Chrome Web Browser

3.9.3 Operational Requirement

For the new system to be operational, internet access is needed in the computer.

3.9.4 Personal Requirement

A computer system with internet access.

3.10 PROGRAM FLOWCHART

CHAPTER FOUR

IMPLEMENTATION AND TESTING

4.0 INTRODUCTION

The online clearance system has more than one user that servers' different purposes in the system. Therefore, it is necessary to reflect the user's different role within the system. The general user (student) can access the system, make payment, and view their data. Admin can verify student's payment; delete student profile, clear student.

4.1 CHOICE OF PROGRAMMING LANGUAGE

The programming language used to design and developed this project is PHP, and MYSQL as a database. PHP is a server-side scripting language that allows your website to be truly dynamic. PHP stands for hypertext preprocessor its flexibility and relatively small learning curve (especially for programmer who has a background in C, Java, or Perl) makes it one of the most popular scripting languages around. PHP's popularity continues to increase as a business, and individuals everywhere embrace it as an alternative to Microsoft's ASP language and realize that PHP's benefits most certainly out weight the cost.

Since a good programming language must be reliable, maintainable, portable, and flexible. The language have been carefully chosen and tested, and they can manage large volume of data which provide room for further modification and large volume enchantment.

4.2 PROGRAM SPECIFICATION

This program specifies the various methods used in the adding of student's details into the system, its payments features and the clearing techniques that will be used in achieving this programs.

4.3 ADDING OF STUDENT INTO THE SYSTEM

During the implementation, a decision was made as to who will add the students into the system. A decision was made that only the admin can add staff.

4.4 PAYMENT FEATURE

During the requirement gathering process, students were interviewed. An issue that most of them is difficultly involved in making outstanding payment. These lead to the decisions to create payment system such that users can simply input their credit card details and make payment online while at home or in the office. Once they have made the payment, the system automatically notifies the admin and precedes the student to next level. This decision gives the system a more organized and refines feel as well as increasing efficiency and ease of use.

4.5 TESTING

Testing is one of the most important aspects of developing a good program. It helps to validate and verify whether all of functional requirements are met or not. Testing is important for making sure that the program quality is assured. This was carried out by running test data through the system to ensure that it works the way it's supposed to. It was also used to sniff out any vulnerability in the system. All vulnerabilities are then isolated and reviewed from the test of the system.

4.5.1 Test Plan (for Unit Testing, Integration Testing and System Testing)

Below is the test plan for the “ONLINE CLEARANCE SYSTEM FOR GRADUATING STUDENTS”.

Test Identifier:

TEST LEVEL: Master Test Plan

AUTHOR’S NAME: _____

AUTHOR’S CONTACT: _____

4.6 FEATURES TO BE TESTED

The following aspects of the system were focused on during the testing of this system:

- Login Page
- Dashboard
- Logout Button
- Database Update
- Viewing of Students Page
- Profile Page
- Payment Page
- Password Update

4.6.1.3 Approach

The built-in debugger for XAMPP will be used along with the browser inspection feature that enables inspection of the system as it runs to see how each function is operating and how values are exchanged between the system, program and database which will help in isolating any issues.

4.6.1.4 Deliverables

The deliverables for this test plan are as follows:

- Test case
- Test report
- Traceability matrix
- Test result
- Error report

4.6.2 Test Suit (for unit testing, integration testing and system testing)

Test case TC-002 (login)

Test suite ID R-116

Test case ID TC-001

Test case summary Ensuring users and logout

Related requirement prerequisite	Ensuring that admin can login
	The system must be up running
	Website in browser
Test procedure	Navigate to login page
	login
Test data	Email password
Expected result	User should be able to login successfully

Actual results	The user logged in successfully
Status	Test passes
Remarks	The test was carried out successfully
Created by:	
Date created	
Executed by	
Date of execution	
Test environment	Hardware: HP pavilion Software: Google Chrome Browser

Table 4.1 test suite performed for login

Test case TC-002 (logout)

Test suite ID R-117

Test case ID TC-002

Test case Summary Ensuring users can log out

Website is running	
Click logout	
login	
Expected result	Users should be able to login successfully

Actual result	User was logged out
status	Test case passes
Remarks	The test was carried out successfully
Created by:	
Date created	
Executed by	
Date of execution	
Test environment	Hardware: HP pavilion Software: Google Chrome Browser

Table 4.2 test suite performed for logout

4.6.3 Test Report Summary (For Unit Testing, Integration Testing And System Testing)

Summary of test carried out

TEST	RUSULT
Number of function tested	6
The number of function not tested:	2
The number of passed:	6
The number of test failed:	0
Percentage of test passed	100%

Percentage of test failed	0%
---------------------------	----

Table 4.10 test report summary

4.6.4 The unit testing done included the testing of the following items

1. Functionality of the entire modules / forms.
2. Validation for user input.
3. Checking of the coding standards to be maintained during coding.
4. Testing the module with all the possible test data.
5. Testing the functionality involving all types of calculations etc.
6. Commenting standards in the source file.

After completing the unit testing of all the modules, the whole system is integrated with its dependencies in that module. While system integration, we integrated the modules one by one and tested the system at each step. This helped in the reduction of error at the time of the system testing.

4.6.5 The Steps Involved During System Testing Are As Follows:

- Integration of all the modules / forms in the system.
- Preparation of the test cases
- Preparation of the possible test data with all the validation test
- Actual testing done manually
- Recording of all the introduced error
- Modification done on the errors formed during testing
- Prepared a test result script after rectification of the errors

4.6.6 Error Report and Correction

Error	Correction
Logical error due to mistake in code	Use the error report to isolate the issue and fix it
Runtime error	End execution and use the runtime error to fix error
Database error	Look for error in code or re-initiate database

Table 4.11 error report and correction

4.7 USER GUIDE

The user guide serves as a manual for new users to help them navigate the system easily. A new user should type the URL into a search engine and login as an admin, staff or a student.

The admin logs in and views a dashboard where they monitor all the activities in the system. They staffs logs in to view members register under him/her. Finally, all users can simply click the “log out” button to log out.

CHAPTER FIVE

SUMMARY, CONCLUSION AND RECOMMENDATIONS

5.0 SUMMARY

The use of computer software based online clearance system forms the basis of the school management decision. It aims at providing the management with adequate, effective, well documented up-to-date and formatted output. To help as a tool in planning and decision making/based on the student clearance form. The lack of learner outcome variation of the online system signals the establishment of concurrency between the two measures even though they are measures of same construct. This investigation supports the use the online system delivery structure to broaden the instruction audience in technology education program. The use of online clearance system in technology education at the university remain at the minimal level as suggested by the 80 percent of the online student participant, predominantly technology education measures who report that they have not done online clearance previously. Also 75 percent of online student participant report that they have not used computer software base online clearance system previously. Having come to completion of this project work a lot of achievement was made and they include;

1. The replacement of error prone manual system with new automated online clearance system.
2. Data can now be processed with great speed and efficiency.
3. The application has the ability to update record in various files automatically there relieving the university staff the stress from working from file to file.
4. The security of data is ensured.

5. The use of database server was implemented.

5.1 CONCLUSION

Research and development are continuous processes; this is same in computer and software development. However the effectiveness and efficiency of this new system provide room for further improvement. As early mentioned some of the objectives of this project were not actualized due to some limitation. So this objectives could be improved upon, the outline clearance system developed will offer greater opportunity in school management. All transaction or payment with regards to student's clearance can be carried out online.

5.2 RECOMMENDATION

The research work carried out is limited to online clearance only. It would be better if a full portal is developed for effective and wholesome of information management technology in our universities. When this is done the following modules are recommended to include in the portal.

1. Developing an online students admission system to enable full tracking of student records.
2. Automation of student academic record to enable the management to have access to student academic performance.
3. Maintaining a central database for accessing information relating to student.

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<h2>Student's Clearance Guides</h2>

<p>According to Maedche A et.al (2002), a web portal, also known as a links page, presents information from diverse sources in a unified way. They go beyond static web pages and require a sign-on which links to some knowledge the organization has collected about the visitor. That knowledge allows portals to be tailored to meet individuals need. The business dictionary, enumerated that portals go beyond the delivery of static information and often provide access to services offered by the organization. A portal makes network resources (application, databases, etc.) available to end users. The user can access the portal via a web browser, WAP phone, pager and other devices. Portals include network enabling services such as e-mail, chat rooms and calendars that interact seamlessly with other applications. Most web portals allows for adding personal links as portal providers realize that user may have other interest beyond the organizational boundaries. Personalization will make the portal more appealing to the user, thus a portal allows a user to enter their data space, which can be defined as a space where a user can view and do what he/she wants to do and not what someone else thinks should be done. Examples of web portals are Thrashbarg, AOL, iGoogle, MSNBC, Netvibes, and Yahoo!.</p>

<p>Conventional interaction systems and information dissemination for students and staff (Academic and Non-Academic staff) of a University faces many challenges. Private universities in Nigeria are thus solutions aimed at solving the ills that plague the public universities where inefficient communication/ information dissemination can be regarded as one of those ills. To overcome these challenges there exist the need to develop a portal where students can access vital, relevant university information anytime via the Internet. The web portal as a gateway in the World Wide Web is a starting point for people who are connecting to the Internet. The web portal as the type of knowledge management system provides a rich space to share and search information as well as communication services like content provision for the users. This paper aims at proposing a necessary tool for students in the private universities to help them in getting the required relevant information.</p>

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<h2>About Us</h2>

<p>The main purpose of this study is to put to an end the difficulties the university senate encounters when disseminating information across to staffs and students of the institution. This is actualized by designing a portal based information system for the university senate which is user friendly and interactive. By the time this portal is designed and implemented, the difficulties encountered with manual method of information dissemination will be eliminated.</p>

<p>All input forms are designed to match the routine selected from the appropriate subsystem menu. The input was designed considering the manual process and all the documents currently existing in the system. These can be inputted into the system to carry out process operation. The inputs are keyed into the computer through the keyboard and the magnetic disk.</p>

<p>

<div>

<h2> News Update</h2>

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<li><a href="#">Home</a></li>
<li><a href="#">About Us</a></li>
<li><a href="#">Contact Us</a></li>
</ul>
</div><!-- // end .col-1 -->
<div class="col-1 fl push-2">
<h3>More</h3>
<ul>
<li><a href="#">Apply for Admission</a></li>
<li><a href="#">Login</a></li>
<li><a href="#">Portifolio</a></li>
<li><a href="#">News Blog</a></li>
</ul>
</div><!-- // end .col-1 -->
<div class="col-1 fl push-2">
<h3>Follow Us On</h3>
<ul>
<li><a href="#">Facebook</a></li>
<li><a href="#">Instagram</a></li>
<li><a href="#">Twitter</a></li>
<li><a href="#">Skype</a></li>
<li><a href="#">Google+</a></li>
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<p id="copyright" class="wrap">Design by Suly Digitals (07064205007)</p>
</div><!-- // end #footer -->
</body>

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APPENDIX II: PROGRAM SCREENSHOTS

HOME PAGE



Student's Clearance Guides

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News Update

CLEARANCE APPLICATION FORM



Student Registration

Fill Out the Form below with correct details, otherwise, you stand the chance of not been cleared if incorrect information is provided.

Matric Number:

Surname:

Other Names:

Phone Number:

Email Address (if any):

Home Address/Hostel & Room No.:

Department:

Course Option:

Level:

Programme:

Academic Session:

Passport: No file chosen

Password:

Re-type Password:

LOGIN PAGE

**AUCHI POLYTECHNIC AUCHI**[Home](#) [Apply for Clearance](#) [About](#) [Contact](#) [Login](#)

User Login

Enter your Username and Password below


Username:

For Student, Your Matric Number is your Username

Password:


[Login](#)

CLEARNACE REPORT

**AUCHI POLYTECHNIC AUCHI**
P.M.B 13, Auchi - Edo State[Home](#) [Make Payment](#) [Print Clearance](#) [Logout](#)

Hello, MARYJANE OPARA!

Matric Number: ICT/2252060003



My Profile

Department	COMPUTER SCIENCE
Course Option	COMPUTER SCIENCE
Level	HND
Programme	MORNING
Academic Session	2021/2022
Payment Status	PAID
Clearance Status	✓ CLEARED

[Re-print Clearance](#)

MAIN REPORT



AUCHI POLYTECHNIC AUCHI
P.M.B 13, Auchu - Edo State

FINAL YEAR STUDENTS' CLEARANCE FORM 2021/2022 SESSION

Matric. Number	ICT/2252060003	
Student Name	OPARA MARYJANE	
Phone Number	08135577966	
Email Address	kellykevin.ko@gmail.com	
Department	COMPUTER SCIENCE	
Course Option	COMPUTER SCIENCE	
Level	HND	RRR Number 1001234583
Programme	MORNING	Payment Date 10-11-2022 10:04:59 AM
Academic Session	2021/2022	
Amount	₦2,500.00	
Address	VICTORY CLOSE, OFF OBAMA STREET 10	

CLEARANCE STATUS


Cleared