**INTERIM PROGRESS REPORT**

DESIGN AND IMPLEMENTATION OF AN ANDROID-BASED ONLINE CLEARENCE SYSTEM

1. **Background Research:**

On December 16, 2015 the federal government of Nigeria authorized Caritas University, Maori nike Enugu as a private university. Prof. Fabian Osuji, the Federal Minister of Education, declared it open on January 21, 2017. Rev. Fr. Prof E.M.P Edeh established it as the second catholic university. The Sisters of Jesus the Savior, a religious community of nuns created by him, are in charge of the school. Engineering, Environmental, Management and Social Sciences, and Natural Science are the four faculties that the school now runs. There is a bigger demand for an online Android-based clearing system at universities than there is for an automated technique of keeping data. This would help to alleviate many of the issues and stress that come with the manual clearing approach. Furthermore, the problem of youth service being postponed due to incapacity to finish the time-consuming manual clearance process will be addressed. Clearance is a status awarded to persons, usually military personnel, university graduates, and workers of governments and their contractors that allows them access to classified material, such as state secrets. In private businesses with a systematic procedure for vetting workers for access to sensitive information, the word "clearance" is also occasionally used. The organization must establish that the approved individual has a "need to know" the information in order to obtain access. No one should be allowed access to classified material merely on the basis of their rank or position, but once a clearance has been acquired, access to specific information or a degree of freedom will be granted. As a result, a growing number of colleges are pursuing the dynamic educational alternatives accessible online. The benefits of e-learning are numerous. People of all ages and backgrounds are becoming more reliant on the internet as a source of information. There is a demand for an online clearing system as online learning becomes more accessible and effective. The abilities required to access and interpret material on the internet are becoming more widespread, and the flexibility of wireless computing means that any coffee shop, airport, or bedroom may be transformed into a school. With an online clearing system, online courses, registrations, and clearance have few, if any, scheduling limitations, well-integrated learning materials, and competitive degree alternatives. Online clearance systems, conventional undergraduate and general studies programmers are now part of the evolving online college scene. Career learning, on the other hand, remains the most popular online training choice.

The purpose of this analysis is to raise awareness of certain other research relevant to the project's topic. Many academics have offered a variety of solutions for dealing with this problem and achieving the subject's aim. Many postsecondary schools have chosen to follow the dynamic educational options accessible online, thus the advantages of e-learning are now numerous. For online classes, registrations, approval, and an online clearing scheme, there are few if any time limitations, well-integrated learning possibilities, and cheap degree options. On the web, the high school has always had a strong structure.

There appears to be an overall derivative for the online framework, given the mountainous demand for flexibility in schedules and the daily urgency of networking technologies and abilities. The online platform may be used at any moment to provide advice to a large learning community. This suggests that properly classifying online learning as the driving force and paradigm for transitioning into an online course of teaching, learning, and formal education has the ability to offer the instructor with customized attention to the student, which would otherwise be impossible. In a large classroom setting, this is impossible to do. . With the continued expansion of online system apps, many schools and institutions have begun to provide online classes as an alternative to traditional face-to-face instruction.

1. **Summary of progress to date:**

A research project that will aid in the development of an effective information management system for schools is an Android-based online clearing system. Its goal is to create a mechanism for making graduation clearances. The developed Android application will serve as a more dependable and effective way of completing student clearance, eliminating all kinds of delay and tension while also allowing you to grasp the procedures and how to complete your clearance online. The developed Android application will serve as a more dependable and effective way of completing student clearance, eliminating all kinds of delay and tension while also allowing you to grasp the procedures and how to complete your clearance online.

The following are the goals of this online clearing system for graduating students, which is based on computer software:

* Clearance of pupils in a timely and effective manner.
* To create a system that is trustworthy and transparent, free of personal bias and interest.
* To give access that isn't limited by geographical boundaries.
* To guarantee that clearance is completed promptly.
* To reduce the hassles and stress of travelling and student queuing for clearing.

The project work will assist in a variety of ways to alleviate the university's waiting system, since the online clearing system will allow students to accomplish anything they desire without having to travel to multiple locations for clearance offices.

* It helps you save a lot of time.
* It is incredibly handy to utilize it from the comfort of one's own home, workplace, or anyplace else on the planet.
* The processing of information is extremely rapid, and delays may be avoided.
* It is low-cost for students and school administrators.
* It also aids the school in lowering costs such as labor and materials stationery.
  1. **Hypothesis of the project:**

The idea is to build a system that can give improved data management and time savings by giving clearance certificates online and sending a notification to students' mobile phones. There is anything done on his or her clearance, such as student clearance registration, which aids in resolving student clearance difficulties among students who share the same clearance border.

* 1. **Interest of the project:**

1. Personal interest.
2. Institution and public interest.
3. **Personal interest.**

This study effort enriched my understanding and assisted me in mastering the information technology abilities I learned at university. This is also an opportunity to become acquainted with new IT tools that were utilized throughout the creation of my project.

1. **Institution and public interest:**

Because it may enhance the quality of services and save computational time, the clearance system has made the work of employees who are responsible for monitoring student clearance easier. It may also improve performance, speed, accuracy, and efficiency, as well as save paper costs and increase production. This technology assisted other members of the public in seeing information and in automatically generating all required student clearance forms, reducing the danger of data loss.

1. **Consideration of ethical, legal professional and social issues:**

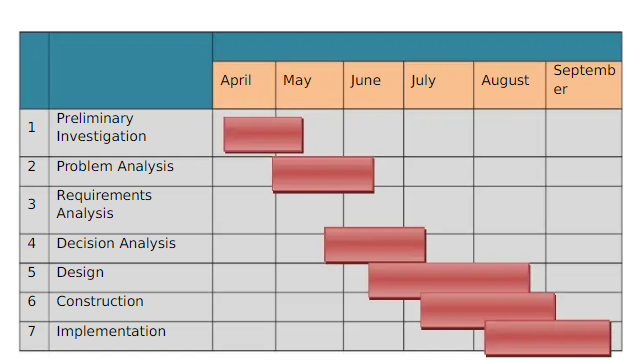
In terms of how a project affects people ethically, there are some problems that must be considered in every project. The following are some of the issues:

1. **Confidentiality:** The data given by customers and users of a system must be kept confidential. To achieve total honesty, a trusting relationship between the clients and the programmer must be established.
2. **Risk of harm**: The project's security must be maintained for all participants. Nobody will be harmed as a result of their participation in this research. It is highly improbable that anyone will be injured as a result of this research.
3. **Validity:** the study's findings must be in line with the research questions and the outcome. In the same way, moral research necessitates that the methodologies used be explicitly related to the study topics.

**Project risks assessment:**

|  |  |
| --- | --- |
| * Inability to do research owing to a hardware failure/software. * Failure or loss of equipment results in a loss of employment. * Software availability (API Unavailability). * Hardware component delivery was late. | * At school, be aware of and observe IT security procedures. * Data should be backed up to H Drive on a regular basis. * Alternative APIs will be tested. Software specifications for potentially controversial software can be recognized ahead of time. * Hardware specs would be set ahead of time in order to be able to order them on schedule. |

1. **Project plan:**



1. **Appendices:**

Your report's appendices give evidence of the quality and amount of your effort. Specifications, design papers, survey forms and findings, screen shots, and other material created as part of your project should be included in your appendices project. It's conceivable that the markers will conclude that you haven't done what you claim to have done if you don't have this supporting proof.

The appendices, on the other hand, are solely there to support your report's assertions. Only the sections of the appendices that you direct their attention to in the main body of the report should be anticipated to be looked at by the markers. They are not required to read the appendices in their entirety, but they are encouraged to do so conceivably. If you think it's necessary to bring the markers' attention to a document (or a section of a document), tell them where to look (don't just state "the code for this is in appendix 3," offer a page number and/or additional information that makes it apparent where to look; incorporate even greater in the body of your report, the appropriate code snippet).

You must include any programmer code you wrote in the appendices. However, unless it is absolutely important for the reader to comprehend the job you have done, do not include machine-generated or third-party code. If you do include code, make sure it's clean.

You are responsible for making it obvious which portions of the software you did not create. Which portions are yours and which aren’t? You might be charged with plagiarism if you submit automatically produced code or code written by another programmer as if it were your own. Unless it's absolutely required, don't provide copies of any online pages you've mentioned. Simply provide the citation information in your bibliography so that the reader may view them. Samples of the work given in the appendices may (and probably should) be incorporated in the body of your report to illustrate a point or to facilitate debate.

This user guide is designed to assist new users in navigating the system. A new user should search for the URL and log in as an administrator, staff member, or student.

When the administrator signs in, they are presented with a dashboard that allows them to keep track of all of the system's operations. The employee logs in to see who has been assigned to him or her. Finally, anybody can just click the button to "log out".

1. **Reporting and correcting errors:**

|  |  |
| --- | --- |
| Error | Correction |
| logical error caused by a programming error | Use the error report to isolate the \issue and fix it |
| Runtime error. | End execution and use the runtime \error report to fix error |
| Database error | Look for errors in the code or restart the database. |

1. **Referencing:**

List any sources (books, journals, online) after the last chapter and before any appendices. Pages, and so on.) That you mention in your report. You should also include a list of the sources you used even if it isn't specifically mentioned. For your in-text citations and references, use the Harvard method a single list of references, sorted by author surname (whether the content is taken from) is a piece of software or comes from books, journals, forums, or blogs). A guide to Harvard University. The reference system is available on the internet at.

<https://www.modishproject.com/download-complete-project-topics-and-materials/>

<https://www.google.com/search?q=online+clearance+system+for+student+project+planning&oq=online+clearence+system+for+student+project+plan&aqs=chrome.1.69i57j33i10i160.8335j0j7&sourceid=chrome&ie=UTF-8>

* 1. **In text citation:**

The citation is given a number that runs sequentially throughout the body of a report or essay. When a direct citation is supplied, this applies: “Organization design is frequently believed to represent the organization structure.” ...assumptions about organizational design have lately been questioned (1), to the point that because it is a direct quotation, the first sample also contains a page number.

* 1. **Bibliography:**

The references should be listed in the same order as they appeared in the text in your primary bibliography. The numeric system follows a similar structure to the Harvard system for references. However, rather than following the author's name, the date should be at the conclusion of the reference. If you're referring to several page numbers, you'll need to precede them with a colon, just like in Harvard referencing.