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Design and Implementation of an Android-Based Online Clearance System

1. Introduction:

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. In most cases, a clearance is insufficient to obtain access; the organization must establish that the cleared individual has a "need to know" the information. No one should be allowed access to classified information merely on the basis of their rank or position, but once a clearance has been acquired, access to particular information or freedom will be provided. The act of evaluating and obtaining any permission required to utilize someone else's intellectual property in a creative endeavor is known as clearance. Among the steps in this procedure are:

- Identifying the intellectual property's owner(s).
- Making contact with the owners and reaching an arrangement.
- Taking care of signed contracts
- Taking care of any additional issues relating to the usage and licensing of intellectual property.

The benefits of e-learning are numerous; as people of all ages and backgrounds grow more dependent on the internet for information, online learning has become more accessible and efficient; as a result, the demand for online learning has increased a clearing mechanism that works online.(AAmaral, 2013)

2. Hypothesis:

The institute management decision is based on the usage of an online clearance system based on computer software. Its goal is to provide sufficient, effective, well-documented, current, and structured output to management. Assisting based on the student clearance form as a tool for planning and decision-making. Despite being measurements of the same construct, the online system's absence of learner result variance suggests the development of concurrency between the two measures. This study backs up the usage of the internet. To widen the audience for technology training, a system delivery structure was developed. Programmer of instruction according to the 80 percent of online student participants in technology education measures who state that they utilize an online clearance system, the usage of online clearance systems in technology education at the university is still at a low level. I've never cleared anything online before. In addition, 75% of online student participants said they had never utilized a computer software-based online clearing system before. (Burns, 2011)After completing this job, there was a lot of work to do. A number of accomplishments were made, including;

- A new automatic online approval system will be used to replace an error-prone manual method.
- Data can now be processed quickly and effectively.
- The application may update records in a variety of files. As a result, the university personnel are relieved of their work-related stress from one file to the next.
- Data security is guaranteed.
- A database server was implemented.

3. **The statement of the problem:**

   Students must be cleared in several departments and information units following graduation in order to be cleared:

   Fines from the university library for late or missing library materials

- Dues to the department.
- Fees for the hospital and the bookshop.
- Charges for damage to the residence hall.
- Return all athletic gear.
- Dues to the student union.
- Male dean approval.
- Obtaining security clearance.
- ✓ Furthermore, approving a graduating student for youth service as well as collecting a declaration of eligibility from all of these departments takes a long time and involves several steps and delays results. As a result, online-based computer applications became essential. Clearance system.
- ✓ **Problem of the current system:**

A number of issues have arisen as a result of the university's manual methods for storing information regarding student clearance, including:

- Processing of the clearance paperwork is taking longer than expected.
- Inability to process clearance forms due to the absence of some essential personnel encourages a student to attend a certain office on a regular basis in order to sign his or her papers form for clearance.
- Because the filing method is manual, important documents are lost.
- Document damage caused by a fire or a flood.
- Fraudulent employees removing forms illegally, resulting in insecurity.
- Take a long time to locate a specific clearance form to fix the manual method's flaws.

✓ **Justification for the new system:**

- The new system is intended to address issues with the current manual system.
- It is designed to be utilized online, which relieves both students and staff of the stress that comes with using a manual method.
- This will analyze and save data either automatically or manually.
- It will employ Internet connection to the internet to be interactive.
- Other features of the proposed system include:
- Accuracy in data handling 2.High rate of operation and quick reaction time
- Flexibility (the ability to access it at any moment).
- Easy backup or duplication of data on diskette in the event of data loss.
- An improved storage and retrieval method.
- Ease of access from anywhere in the world.

4. <u>The project Objective:</u>

- The following are some of the goals of this computer software-based online clearing system for graduating students:
- To handle student clearance in a timely and effective manner.
- To offer a trustworthy and transparent system that is free of human bias and interest.
- To offer unrestricted access.
- To guarantee that clearance is completed quickly.
- To eliminate the difficulty and stress of student travel and queuing during clearance.
- At any moment, give beardless access.

The following functions are included in the computer software-based online clearing system for graduating students: to effectively and efficiently handle student's clearance. To offer a trustworthy and transparent system that is free of human bias and interest. To offer unrestricted access. To guarantee that clearance is completed quickly. To reduce the hassles and stress of travelling and student queuing for clearing.

5. <u>The Project Aim:</u>

The aim of my project. It is aimed at developing a computer software system that replaces the manual method of clearance for graduating students. The developed software will serve as a more dependable and effective way of completing student clearance, eliminating any delays and tension while also allowing you to grasp the procedure and how to complete your clearance online. This project uses data from the institution, as well as materials and publications from a variety of writers, and software that was created to help the project achieve its goal. In this project, the computer-based system was implemented utilizing JOOMLA as the software; as a

result, some of the project's objectives would most likely be met. The project work will assist in a variety of ways to alleviate the university's queue system, as the android-based online clearance system will allow students to accomplish anything they desire without having to visit multiple offices for approval. Users may utilize the online clearance system to check their clearance status, see if they are owed money by the school, fill out and submit their clearance form, and receive their clearance letter through email. There are several more benefits to using an online clearing system, some of which are described below.

- It helps students and administrators save a lot of time and worry.
- You may use it from your bedroom, office, or anyplace else in the globe.
- Information processing is extremely quick, and delays are virtually impossible to prevent.
- It is cost-effective for both students and administrators.
- Assist the school with labor and stationary cost reductions.

6. <u>Method of Data Collection:</u>

Data needed for the study was obtained from numerous sources during this project research effort. Two primary fact-finding approaches were utilized in obtaining and collecting the essential data and information for the system assessments. This work, as well as the following:(Programing *et al.*, no date)

Primary source:

This is the method via which the researcher gathered original data.

Secondary source:

The researcher gathered secondary data from magazines, journals, newspapers, library sources, and internet downloads. The information gathered through these methods was discussed in the second chapter's literature review.
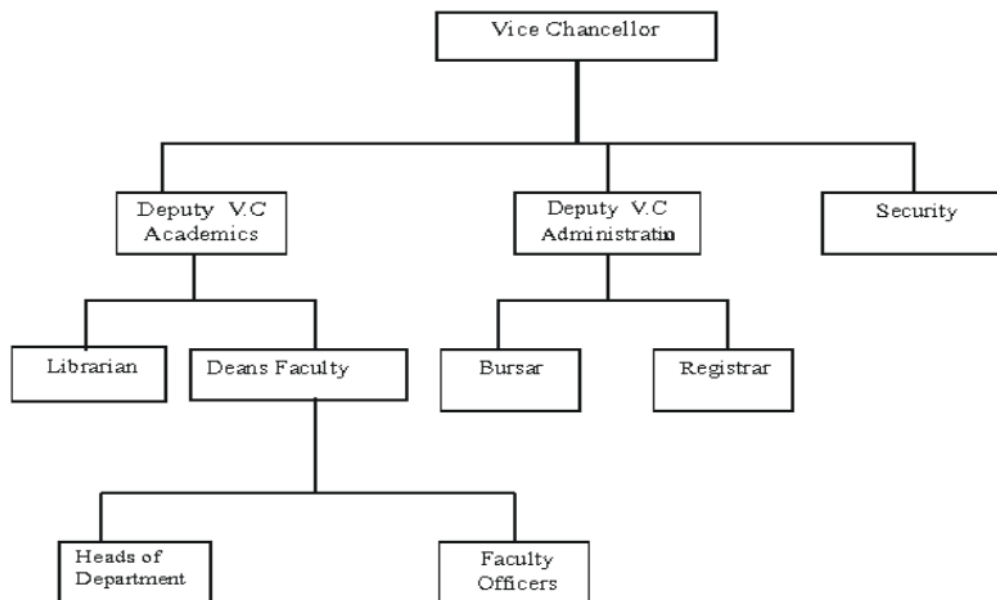
7. <u>Project Plan:</u>

In the project management phases, project planning is a critical step that follows initiation. By properly planning, you may break down the entire project into a number of phases and guarantee that all resources are available on time.(Usman, Olusanya, Olayinka and Adedeji, 2016)
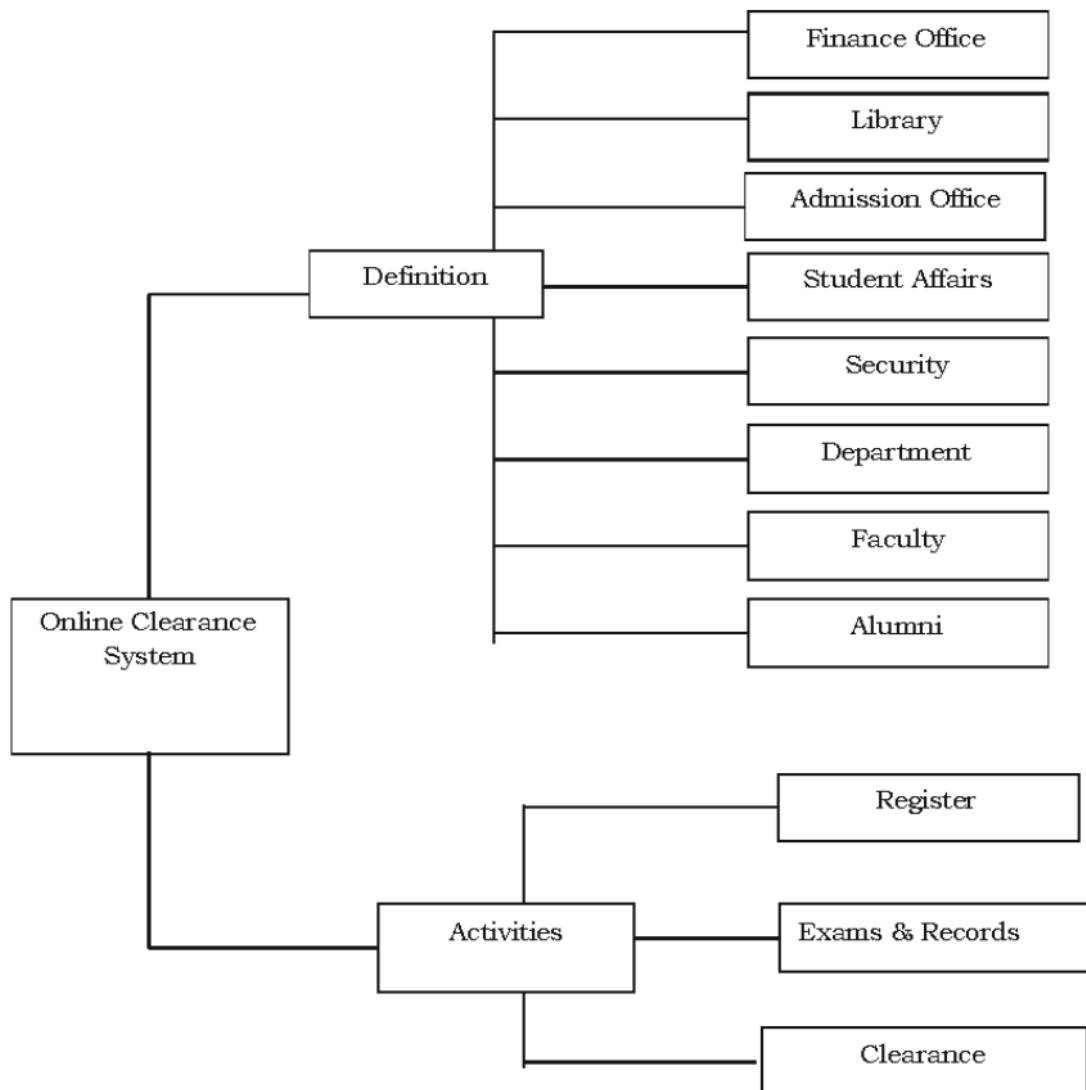
The project planning process discusses project limitations such as time, scope, and money, and mitigation measures are established once possible hazards are identified. You may also monitor your team's performance and take the required actions to enhance it by comparing real progress with the project plan.

Key Elements of Project Planning

According to my project I described some flow chart next:

Figure: Organization structure (Online clearance system)

Finance Office

Library

Admission Office

Definition — Student Affairs

Security

Department

Faculty

Alumni

Online Clearance System

Register

Activities — Exams & Records

Clearance

8. References:

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