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Litertature Survey for Digital Transformation of Academic Activities Using Web Development

B. Abhijith[1], Pushpak .S[2], Krutarth .R[3], Sarmad[4], Dr. Nagaraj J[5]
[1, 2, 3, 4, 5]*Dayananda Sagar College of Engineering, Bengaluru, Karnataka*

Abstract: ***This project presents a web interface for organising training and placement information. The goal of this project is to create a system that can be used by a college's placement cell and To automate the training and placement process . It's the most important programme. Students utilise this to help them prepare for their placements. It contains company information for numerous companies, and users can search for recruitment processes, profiles. This facility is available to students for future enhancement. The documents supplied can be downloaded and used for offline preparation for the placement exam. In addition, there are job interview tips included and also questions for preparing aptitude and technical interview. This project uses Java server page on the front end, and Servelet on the back end, and MY SQL for the database. The goal is to create a system that includes functionality for doing placement-related actions. It is built using a fully modular architecture. The modularity of the system.***

Education and training Any educational institute's placement department is critical. Which the majority of the work has been done manually up to this point. The project will involve the least amount of manual labour and the most amount of technology. Optimisation, abstraction, and security are all factors to consider. This is a web page application that will benefit both students and teacher administration authority to undertake out all activities in the this division.

The system is a web-based programme that may be accessed by anyone in the DSCE(Dayananda Sagar College of Engineering) organisation with a valid login. This system can be used as a starting point.

TPO (Training and Placement Officers) application in order for the college to manage the student information in relation to placement. Students who are logging in should be able to fill in the blanks. Form for registering This project's most distinguishing aspect is that it is a collaborative effort. Registration is only required once. The application gives you the option of keeping track of the kids' information It also comes with a list of prospects was asked to recruit pupils based on specified search term When administrator logs in, he or she can search for anything. The students' information is displayed. Colleges will benefit from this endeavour.to put full-fledged IT implementation into effect This will also be beneficial.

The Proctorial System is designed to guide students through their academic and professional journeys. A proctor, who is a faculty member from the concerned/relevant department, is assigned to each undergraduate student. The proctor monitors the student's performance and behaviour, offering guidance and enforcing discipline when needed. The student and proctor meet regularly to assess the student's academic progress with regard to performance, registration for credits, and attendance. The same is also reported to the student's parents/guardians.

I. INTRODUCTION

The Internet is now the most extensively utilised medium, and all systems are being automated. This automated technology is also being used by colleges and universities. This resulted in creating primarily for the purpose of managing the placement process. It is a comprehensive management and information system. It is a system that gives the most up-to-date information on all of the students at a specific college, as well as the future job openings. This assists colleges in overcoming obstacles. Keeping track of thousands of students is difficult. Automating it and looking for a student's eligibility as a selection criterion. It also aids in the efficient and timely execution of tasks. Hardware and software resources are being used to their full potential. It is simple to use at anyplace and at any moment. This system can be used as an application by the college's TPO officer to handle current and alumni student information about placements. It covers all of the student's information. The system is in place holds all of the student's personal information, such as their names and addresses, data, including their overall grades, skill set, and technical knowledge skills that are listed on a CV that is being sent to a company. It additionally includes information about the present operational company and Alumni students that are placed have prior employment experience. Students' information has been posted. They have the ability to create the Free placement-related resources. Students can use the internet to look for the aptitude, for example, is a material that is essential for the selection process.

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The Next portal of the system is Proctor management system. The Proctorial System is intended to assist students as they progress through their academic and professional lives. A proctor, who is a faculty member from the concerned/relevant department, is assigned to each undergraduate student. The proctor keeps track on the student's grades and behaviour, providing counselling and implementing discipline as appropriate. The student and the proctor meet on a regular basis to discuss the student's academic progress in terms of performance, credit registration, and attendance. The same information is shared with the student's parents or guardians.

The Proctorial student information system has a user-friendly interface for updating student information. It can be used by educational institutes or colleges to keep track of their students' progress. Keeping track of students is simple. It will be difficult to achieve this goal. Because information is fragmented, adopting a manual system can be inconvenient, redundant, and gathering appropriate data can be time-consuming. It takes a long time. All of these issues are resolved through the use of the internet. This system is centered on providing facts in an understandable and easy-to-understand manner which includes services such as online registration and profile creation. Creating students profile reduces paper effort and automates the process. In a school, the process of creating records is known as record generation.

Creating and implementing a thorough strategy. The new student information system and user interface will replace old one. Proctoring portal also helps the students to interact with their proctor and also it maintains a proctor dairy where the proctor can see the academic performance of their respective students. It also sends an remainder to the students to attend the proctor meet through mail.

The last portal of the system is Project management system. In today's environment, no one goes out of their way to check for notices posted on notice boards. Many students are unaware of critical announcements and updates about their final year projects. Furthermore, the students are unable to keep track of project-related activities. It becomes quite simple if all of the project's facts and updates come from guides and websites. Students have access to the coordinator at all times. Manually managing final year projects is a highly hard task. The major goal of Project Management System is to provide a simple web interface where anyone may carry out their project-related activity . It provides a simple web gateway for students, project coordinators, and project guides to manage and monitor the overall project.

II. RELATED WORK

Researcher Z. Wang et al discussed on the online placement training portal in this portal it consists of aptitude multiple choice questions and technical interview questions this portal will help the students to prepare for different interview Rounds and later in this module the web component are converted into mobile app component .

Researcher Parkavi, A. discussed on proctoring system in academics Many pieces of information must be maintained in the proctorial system of educational institutions, such as a student's complete bio data, qualifications, extracurricular activities, and internal marks.

Current semester's end-of-semester examination results attendance for the lectures handled by the professor in previous semesters staffing, student proctoring, and information for parents about the students.

Researcher Koushalya Karwa discussed on proctorial student information and their performance in their academics The Proctorial student information system has a user-friendly interface for updating student information. It can be used by educational institutes or colleges to keep track of their students' progress. Keeping track of students is simple. It will be difficult to achieve this goal. Because information is fragmented, adopting a manual system can be inconvenient. redundant, and gathering appropriate data can be time-consuming. It takes a long time All of these issues are resolved through the use of the internet.System for managing student information. This system is centred on providing facts in an understandable and easy-to-understand manner which includes services such as online registration and profile creation Creating students reduces paper effort and automates the process. In a Colleges, the process of creating records is known as record generation.

Researcher Shahnawaz Alam discussed on project management To plan, monitor, and oversee a project, a number of project management (PM) methodologies have been created over time [1]. Work Breakdown Structure Design (WBS) is the process of breaking down project deliverables and work into smaller chunks. into more manageable pieces Activities must be planned and executed. Subsequently carried out in order to create these deliverables The pursuits It may be necessary to bring attention to their interconnectedness. For effective allocation of activities based on activity network diagrams series of activities. The Critical Path Method (CPM) is a technique for calculating the length of a path. Aids in the identification of the activity network's essential pathways a diagram that can be improved further Evaluation of the Program. The Project Evaluation and Review Technique (PERT) aids in the comprehension of the project.

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Researcher D. Huljeniü discussed on project researches Research projects in general, and those academia in particular, are distinct from both development initiatives and "purely academic" research .Research initiatives in terms of how they are planned, carried out, and evaluated as well as managed The desire to share is the driving force behind this paper. Our project management experience for such projects throughout the last five years, and then examine them.
All of those projects fell under the same general category.

1) ICT (Information and Communication Technology): in terms of networked virtual worlds' quality of service
2) Mobile agent and multi-agent networks of the next generation systems relying on the internet for remote software maintenance
3) Designs for middleware (with Web services)
4) Location-based services;
5) Location-based applications

Researcher Desmond, Celia discussed on project management tools how to make a portal for managing list of good projects in the portal. There are two tools for managing the security of projects .
Risk register this used to manage the risk of good projects and identify the risk contains in the management portal .
Stake holder registers The stakeholder registry, as the name implies, identifies and provides information about the project's stakeholders. This document has the ability to Moreover, they range from being extremely simple to being pretty complex. being really thorough At the moment, It should, at the very least, list the stakeholders And determine why each person is interested in the undertaking If, as with the dangers, further data is presented, and the team has a far better chance of succeeding. Make more effective plans.

III. DESCRIPTION OF PROJECT

It is web application consists of Three parts i.e Placements and Higher Studies, Proctoring and Project Management. Using the placement portal. One can see the list of companies visited the campus for hiring and list of companies yet to visit .Students can upload their offer letters. It also keeps a record of students who are going for higher studies. Proctoring portal helps the students to interact with their proctor and also it maintains a proctor dairy where the proctor can see the academic performance of their respective students. It also sends an remainder to the students to attend the through mail. Project portal is a open source platform where one can access projects and the resources of the project and even upload the projects.

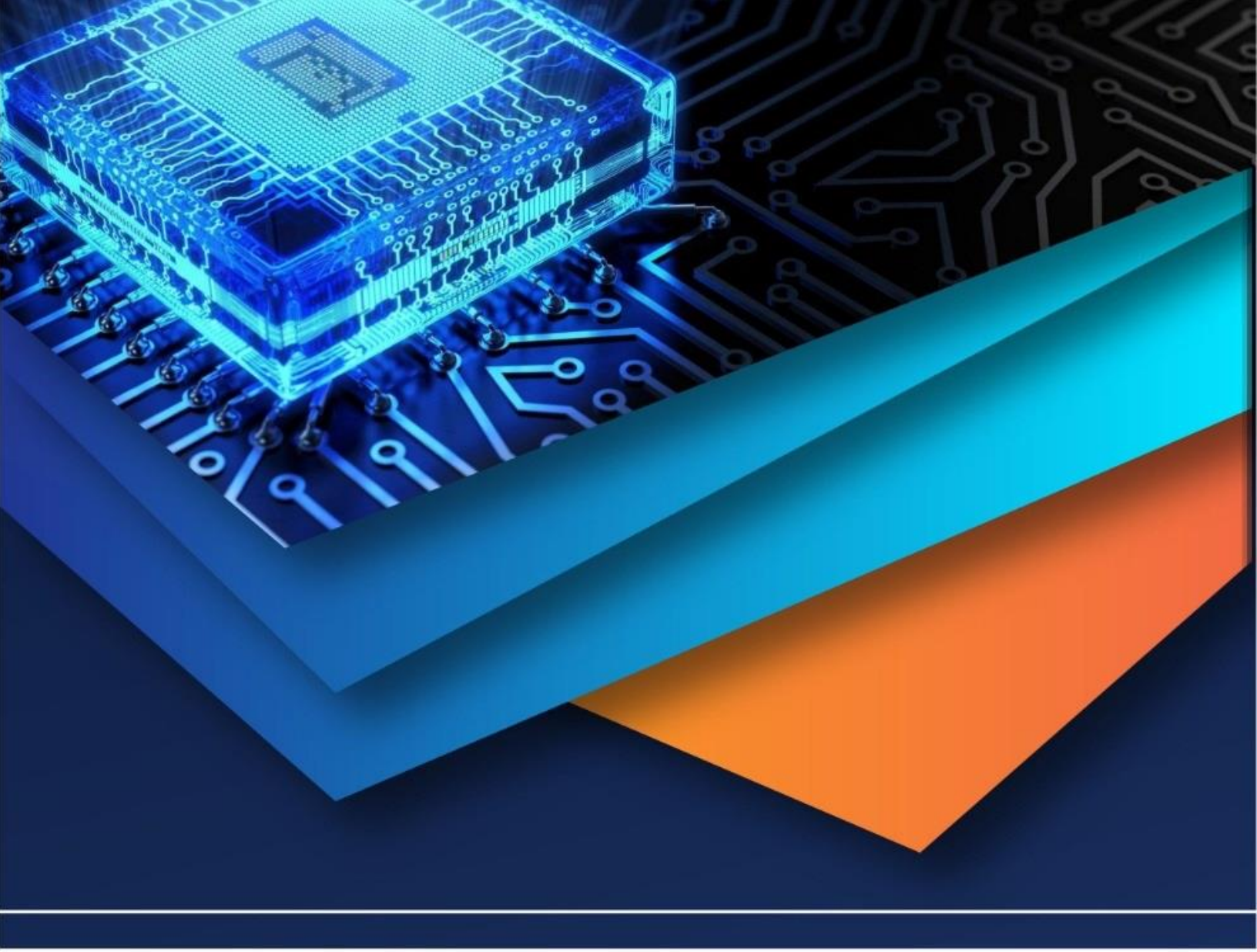
IV. CONCLUSION

In this project we are creating website, there is no chance of missing the placement opportunity updates. The college placement officers will not have to get the separately collect information of every student. It will automatically be updated when the student registers. The project is basically a website which can be easily accessed through mobile on the go.The project will include minimum manual work and maximum optimization, abstraction and security. This is a web application which will help students.

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