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Training and Placement Portal

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ABSTRACT: The branch “Computer Engineering” is very vast; it has many sub branches in it. Students who are new find it hard to get the basic knowledge about all fields, their requirements and they also need to find their field of interest. For doing so most of the students take help of google, faculty members, seniors and it leads them to different opinions. This can create confusion and so the student can even choose a wrong path or can get wrong information. So, there is a need for a platform which will provide all the details about branches, sub branches, trending branches. This will let students know about each and every field of the computer branch and accordingly they can select. They will be provided with comparisons, average salary and future of that branch. Once the student is aware about all the required information he/she can select the branch of their interest. With the selection of a branch he/she will get a roadmap regarding the things to be learnt.

KEYWORDS: fields, requirements, branches, roadmap, future

I. INTRODUCTION

In today's rapidly growing industry there is a need for perfection and knowledge at the same time. Students need to be prepared accordingly and as the field computer engineering is very vast so it is quite tough for students to choose the right career path and follow the right roadmap. As a solution to this problem we have the training and placement portal which will give the students the required training which they need to be perfect in their career path and at the end to provide them with their choice of company. This portal will be with them from start to end of their engineering journey.

II. RELATED WORK

In [A] College Placement Management System by Maryam Sayyed, Seemab Zehera published in 6 June 2020. This paper is about technology that provides quick placement management system in college unlike the traditional system where students as well as TPO may face many problems like insufficient details, problems with manual working etc. The purpose of the system is to overcome the disadvantages of the traditional placement system.

In[B] Student Analysis System For Training And Placement by Navneeth Kumar ,Vamsi Kandula, Praneeth Ambiti published in 6 March 2020. The student analysis system is a web portal for the training and placement department of the education institution where we will be having the admin portal, student portal & recruiter portal maintained by the organization.

In[C] Research On Placement Management System Dr Manju Bhargavi, Alfiya Banu published in April 2022. The project is a web based application built on the windows. It saves the information about the student in a database for firms to use in their recruitment process. Students can upload CVs which can be sent to an employer. It saves time by decreasing manual labor and reducing the amount of the paper used.

In[D] TRAINING AND PLACEMENT MANAGEMENT SYSTEM PRIYANKA B, DIVYA J,AKHILA M PUBLISHED IN JANUARY 2021 THE MANAGEMENT SYSTEM USED IS SUPPORTED BY THE PAPER BASED SYSTEM DATABASES, SPREADSHEETS AND EMAIL COMMUNICATION. THE AIM OF THE PROJECT IS THE AUTOMATIZATION OF TRAINING AND PLACEMENT. THE KEY FEATURE OF THIS PROJECT IS TO ELIMINATE SINGLE POINT OF CONTACT WITH PLACEMENT COORDINATORS.

In[E] Online Training And Placement Management System Santosh Kumar, Shrividhya V-R published in 2022. This system can be used by TPO of the college to manage the student information with regard to placement. The key feature of this project is that it is one-time registration. The application provides the facility of maintaining the detail of the student it also provide a requested list of the candidate to recruit the student based on given query.

III. PROPOSED ALGORITHM

Training and placement has 2 phases the 1st phase is “ Training” and 2nd is “Placement”. So, according to this only first we will train students and then we will be providing them with job opportunities. Through this process student will get the knowledge which is required for the industry and will be on the right track.

IV. SIMULATION RESULTS

1. Requirement gathering and analysis: In this first step all the details regarding the model whether they may be the implementation details, system details, stakeholders details etc. are identified and we analyse them.
2. System Design: In this stage we design some user- friendly models which are not the actual system but an exact idea of how the original system will be and how it will behave. With the help of UML diagrams we make some rough but exact implementation details about the system.
3. Implementation: In this phase with the help of the different models which we have created we implement the system. The actual code is written and all the required documentation is made. With inputs from system design, the system is first developed in small programs called units, which are integrated in the next phase. Each unit is developed and tested for its functionality which is referred to as Unit Testing.
4. Testing: The different test cases are performed to test whether the project modules are giving expected outcomes in assumed time. All the units developed in the implementation phase are integrated into a system after testing of each unit. Post integration the entire system is tested for any faults and failures.
5. Deployment of System: Once the functional and non functional testing is done, the product is deployed in the customer environment or released into the market.
6. Maintenance: There are some issues which come up in the client environment. To fix those issues patches are released. Also to enhance the product some better versions are released. Maintenance is done to deliver these changes in the customer environment. All these phases are cascaded to each other in which progress is seen as flowing steadily downwards like a waterfall through the phases. The next phase is started only after the defined set of goals are achieved for the previous one and it is signed off, hence the name "Waterfall Model". In this model phases do not overlap.

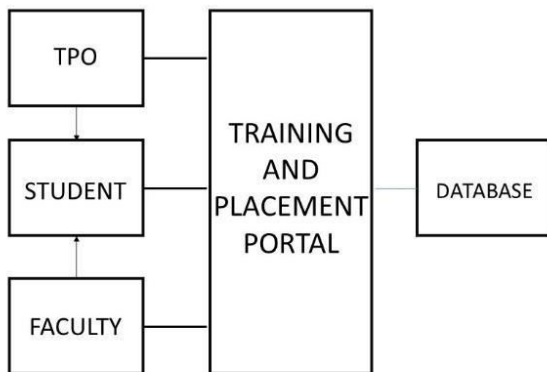


Fig.1 System Architecture

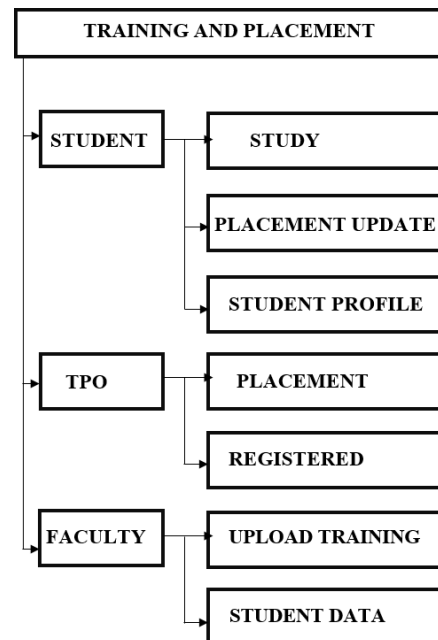


Fig.2 System Flow Chart

First one common login page will be visible then after that 3 options will be visible for login student TPO and coordinator. After that, as per the requirements the login option must be selected, and each login option has some specific functionality.

Student login option: In you login as a student then you have 3 main functionalities, to see the placement updates, to view and download the study material, and to view your profile.

TPO login option: If you login as a TPO then you have 2 main functionalities, to update the placement drive, and to view the selected/applied students for some specific company.

Co-Ordinator login option: If you login as a Co-Ordinator then you have 2 functionalities, to update the study material and, to view the student profile.



V. CONCLUSION AND FUTURE WORK

As per the growing competition and rapidly growing development the project will help students to cope up with this environment. It will help to mold students with all types of skills which are required. Students and faculty both can keep track of their activities. Placement providing and assistance during it can also be given easily. In conclusion, the implementation of a training and placement portal project offers significant benefits for educational institutions, students, and employers. It provides a centralized platform for managing recruitment processes, increasing visibility of job opportunities, and enhancing student employability. The portal fosters collaboration and engagement between educational institutions and the industry, facilitating internships, mentorship programs, and career development initiatives.

Artificial Intelligence and Machine Learning: Integrating artificial intelligence (AI) and machine learning (ML) capabilities into the portal can enhance its functionality and provide personalized recommendations for students and employers. AI algorithms can analyze student profiles, job requirements, and industry trends to suggest suitable job opportunities and training programs. ML algorithms can also help automate resume screening, improving efficiency in candidate selection.

Skills Development and Training: As the demand for specific skills evolves, the training and placement portal can incorporate features to provide targeted skill development and training resources. This can include online courses, certification programs, and micro learning modules to enhance students' technical and soft skills, making them more competitive in the job market.

Internship Management: Expanding the portal's capabilities to manage internships can provide students with valuable experiential learning opportunities. The portal can facilitate the entire internship lifecycle, including posting internship positions, application management, performance evaluation, and feedback collection. Integration with employers' systems can streamline the process and enable efficient collaboration between students and employers.

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