ISSN No. 0976-5697

VOLUME 13 SPECIAL ISSUE 1, JUNE 2022

International Journal of Advanced Research in Computer Science

RESEARCH PAPER

Available Online at www.ijarcs.info

Inter-linked platform for Campus Placement in Higher Educational Institutions of India

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Abstract: This A Campus Placement System aims at providing the compatibility to simplify the process of placement for students. This system that consists of student login, company login and an admin login. This is beneficial for college students, various companies visiting the campus for recruitment an‹ even the college placement officer. The software system allows the students to create their profiles and upload all their details including their mark! on to the system. The admin can check each student details and can remove faculty accounts. The system also consists of a company login where various companies visiting the college can view a list of students in that college and also their respective resumes. The software system allow! students to view a list of companies who have posted for vacancy. The admin has overall rights over the system and can moderate and delete an) details not pertaining to college placement rules.

Keywords: Placement, Institution,Model,Education,Campus

I. INTRODUCTION

A college Campus Placement System that consists of a student login, company login and an admin login. The project is beneficial for college students, various companies visiting the campus for recruitment and even the college placement officer. The software system allows the students to create their profiles and upload all their details including their marks onto the system. The admin can check each student details and can remove faulty accounts. The system also consists of a company login where various companies visiting the college can view a list of students in that college and also their respective resumes. The software system allows students to view a list of companies who have posted for vacancy. The admin has overall rights over the system and can moderate and delete any details not pertaining to college placement rules. The system handles student as well as company data and efficiently displays all this data to respective sides.

II. EXISTING SYSTEM

All processes in existing system are handled manually. All the work that is done in the existing system is done by the human intervention .As all the work is done manually, there were a lot of workload on placement officer and it also increases the maximum chances of errors. This is so slow and time consuming. Due to increase in number of user's the process become more difficult in the system.

A. Ooperational and technical feasibility

First Operational feasibility is the measure of how well a proposed system solves the problems, and takes advantage of the opportunities identified during scope definition and how it satisfies the requirements identified in the requirements analysis phase of system development. The operational feasibility assessment focuses on the degree to which the proposed development projects fits in with the existing

business environment and objectives with regard to development schedule, delivery date, corporate culture and existing business processes

To ensure success, desired operational outcomes must be imparted during design and development. These include such design-dependent parameters as reliability, maintainability, supportability, usability, reducibility, disposability, sustainability, affordability and others. These parameters are required to be considered at the early stages of design if desired operational behaviors are to be realized. A system design and development requires appropriate and timely application of engineering and management efforts to meet the previously mentioned parameters. A system may serve its intended purpose most effectively when its technical and operating characteristics are engineered into the design.

III. ECONOMICAL FEASIBILITY

Establishing the cost-effectiveness of the proposed system i.e. if the benefits do not outweigh the costs then it is not worth going ahead. In the fast paced world today there is a great need of online social networking facilities. Thus the benefits of this project in the current scenario make it economically feasible. The purpose of the economic feasibility assessment is to determine the positive economic benefits to the organization that the proposed system will provide. It includes quantification and identification of all the benefits expected. This assessment typically involves a cost/benefits analysis.

A. Design & planning

This involves questions such as whether the technology needed for the system exists, how difficult it will be to build, and whether the firm has enough experience using that technology. The assessment is based on outline design of system requirements in terms of input, processes, output, fields, programs and procedures. This can be qualified in terms of volume of data, trends, frequency of updating in order to give an introduction to the technical system. The application is the fact that it has been developed on windows XP platform and a high configuration of lGB RAM on Intel Pentium Dual core processor. This is technically feasible .The technical feasibility assessment is focused on gaining an understanding of the present technical resources of the organization and their applicability to the expected needs of the proposed system. It is an evaluation of the hardware and software and how it meets the need of the proposed system..

B. Existing System

Use In colleges the records were stored in excel sheets hence sorting the data is always a problem. The excel sheets are also less advanced. Hence sorting and searching problems arises. Updating Records is another tedious task. Due to the above problems the updating was very difficult and ambiguous. Data redundancy also occurs due to the duplication of files and records. The files were not stored in a hierarchical format, hence searching the eligible students was the greatest problem [1]. The placement officer has to find out the eligible students by looking at the excel sheet. He/she has to see the marks of every student and their eligibility. Another problem students face is that they are not made aware of the Training and Placement activity held in their institutions, hence there might have been a loss of opportunities

C. Proposed System

To design and implement a web-based placement management system. High-quality placements bring good benefits and positive impacts on students as well as for the colleges. During this process college finds it difficult and time-consuming to collect data from each student. In most cases they collect data manually. Working in a manual system in the colleges requires a lot of manpower and time. The placement management system is an online application that can be accessed throughout the college and outside with proper login details. This system can be used as an application for the placement officer, Hod, faculty coordinator of the college to manage the student information with regards to placement. The student is able to upload their information.

The web application is developed in laravel framework with Model-View Template (MVT) pattern [5]. The system will be having different types of accounts for different types of users such as Principal, HOD, placement officers and coordinators, and students. A profile for each student is created with the necessary credentials for the portal. The system uses MySQL for database management and will sort the data of the student based on eligibility criteria demanded by the respective companies. Also a link will be broadcasted to all eligible candidates via an email for them to choose if they are interested to attend the particular drive or test.

D. System Design

The system contains 4 modules as admin module, hod module, tutor module, student module. Each module has the same login page. The login page has a login id and password field. By entering values in that field users should log in to the system. Admin Module The Placement officer is the administrator of the system. Admin plays a very crucial role in the system. Admin can log in through a username and password. He/she can maintain the placement activities via the system. Admin can add departments, create new batches, add /delete drives. Students can directly join in the placement drive if interested. Admin can manage the training programs conducted in the college. Admin is also able to analyze the placement activities of each student.HOD Module Admin provides access to the head of each department with a username and password. By using this HOD can enter into the system. HOD can upload an excel sheet which has the details of the students in a batch. HOD can view every student's placement status. He can also view the active placement drives and registered students. Tutor Module Every batch has a tutor that manages the placement activities of their batch. In this module, the tutor will log in through the username and password. Once he login, he is directed to the dashboard where he can see the upcoming placement drives. The tutor can see the details of the student registered for the ongoing placement drive. The tutor can also create a demo exam in the system. Student Module Every student is given a default username and password, using this he/she can enter the system. Students can fill the necessary details like 10 th grade etc. if interested, students can register for the upcoming drives. The student is also able to attend the online aptitude test being conducted in the system. Based on this aptitude test and other criteria the placement probabilities of a particular student is been predicted.

IV. SOFTWARE VERIFICATION AND VALIDATION

In software project management, software testing, and software engineering, verification and validation (V&V) is the process of checking that a software system meets specifications and that it fulfills its intended purpose. It may also be referred to as software quality control. It is normally the responsibility of software testers as part of the software development lifecycle. Validation checks that the product design satisfies or fits the intended use (high-level checking), i.e., the software meets the user requirements. This is done through dynamic testing and other forms of review. Verification and validation are not the same thing, although they are often confused. Boehm succinctly expressed the difference between •Validation : Are we building the right product?

•Verification : Are we building the product right? According to the Capability Maturity Model (CMMI-SW v1.1) Software Verification: The process of evaluating software to determine whether the products of a given development phase satisfy the conditions imposed at the start of that phase. Software Validation: The process of evaluating software during or at the end of the development process to determine whether it satisfies specified requirements. In other words, software verification is ensuring that the product has been built according to the requirements and design specifications, while software validation ensures that the product meets the user's needs, and that the specifications were correct in the first place. Software verification ensures that "you built it right". Software validation ensures that "you built the right thing". Software validation confirms that the product, as provided, will fu1fi11 its intended use.

A. Conclusions and Future work

Increasing need of comfort and inculcating all the data at one place has always been a challenging process for everybody. With the introduction of this web based training and placement portal we promise to make the lives of students and administration a little easier by proposing an alternative for the current system being used. Easy accessibility and functioning of this portal will allow easy management of the allocation process during placement period. With the increasing demand of digitalization in every aspect of day to day activities we can anticipate the crucial factor that keeps us running that is human energy. The project has a wide scope. Our project mainly helps in improving productivity and makes use of utilization of resources. There is no duplication of work as this was not the case when done manually. Thus it reduces labor and increases morale. The system intends user friendly operations which may resolve ambiguity. The project is a total management and informative system, which provides the up-to- date information of all the students in the college. Our system also help the college to overcome the difficulty in keeping records of hundreds of students and searching for a student eligible for recruitment criteria from the whole thing. It helps in effective and timely utilization of resources. The project facilitates user friendly, reliable and fast management system. The placement officer itself can carry out operations in a smooth and effective manner. They need not concentrate on record keeping. The college can maintain computerized records thus reducing paper work, time and money.

ACKNOWLEDGEMENT

We express our sincere regard and indebtedness to our project internal guide Mrs Payal Sachdev , for his valuable time, guidance, encouragement, support and cooperation throughout the duration of our project. We would sincerely like to thank IT Department for giving the opportunity to work on enhancing our technical skills while undergoing this project. This project was done under the guidance of Mrs Payal Sachdev. This project helped in understanding the various parameters which are involved in the development of a web application and the working and integration of front end along with the back end to create a fully functional web application. We would like to thank Mr Mayank Patel, Head of Department and whole of department for their constant support.

great demand forsuch portals in the near future and the comfort it will bring with it to the lives of all. Also the rapidly increasing concerns of global warming due to increase deforestation for large amount of paperthat it requires we here

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