International Journal of Scientific Research in Computer Science, Engineering and Information Technology
© 2018 IJSRCSEIT | Volume 3 | Issue 2 | ISSN : 2456-3307

College Placement Web Portal

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ABSTRACT

It is a web based application system which aims to automate the placement process which happens in college. It aims to provide benefits to students and Training Placement Cell of college. It has many features on Student login and Training Placement Cell login. It can be also used by companies who are willing to recruit students of college. Companies can organize online screening of the students. Students can give mock aptitude test and there is a student data analysis i.e. students performance can be represented in graphical form and some pointers to improve in mock aptitude test. This proposed application will ease the task of Training Placement Officer (TPO), give detailed analysis to the students regarding their performance in mock tests and provide a platform to industry/companies to conduct pre-placement filtering of students.

I. INTRODUCTION

The increasing advantages of automated system now are at highest position thus many manual processes are automated. Since the automated system is demanded now-a-days, educational infrastructures like colleges needed their manual system to function on computer system. One of such system which is of major importance is placement automation for campus recruitment. This project is aimed at developing a web application for the Placement Department of the college. This system can be used as an application for the Placement Officer of the college to manage the student information with regards to placement. Students logging should be able to upload their information in the form of a resume. So, all the information will store the details of the students including their background information, educational qualification, personal details, sessional marks, university marks and all the information related to their resume. This system helps Company to access the student information with regards to placement. Computer based information system are designed to improve existing system. Company can notify the students about the recruitment online via sending e-mail. This system can be used as an application for college to manage the student records according placement.

Aim and Objective

In order to avoid existing placement problem we are planning to design a system for online Placement, so that Placement activities becomes more interactive, automated and effective. This project's main motive is to reduce load from TPO and provide a platform for VIT students with many opportunities of placement, internships, mock Placement trainings etc.

1. All the resume sends by the student which can be maintain in the database. It reduces the paper work and storage area
2. Save time and work load for TPO Staff and students.
3. Easy to access.
4. Avoid fake Entry.

5. Only Eligible students get chance.
6. Improve performance in result.
7. It will have a user friendly interface

Problem Statement

It is observed that Vidyalankar Institution of Technology does not have a fully dedicated website for Placement activities because of which the TPO has to post all the placement related information at common website (v live).A student can some time over look the post by TPO or there may be server failure which is not a good thing. In an existing system, all processes are handled manually. The TPO have to refer all the records kept for years to simply know the details. This is so tedious and time-consuming and this process becomes more di-cult when the number of students increases. There are many limitations for the existing systems. In existing Placement and Training cell, all the work done at VIT is by human intervention due to which there were maximum chances of errors. The communication gap between students and TPO is maximum which makes the system inefficient. Lists were produced for each company, and students had to regularly travel in to review the notice board for any updates. The process was slowing; valuable academic time was diverted from activity that is more useful.

C. Scope

Project has a big scope to do. Students can maintain their information and can update it. Notifications are sent to students about the companies. Students can access previous information about placement. This project has a large scope as it has the following features which help in making it easy to use, understand and modify it:

1. Automation of Placement Procedure.
2. Reduced Paper Work.
3. To increase the accuracy and efficiency of placement procedure.
4. Efficient management of student data.
5. Statically analysis of overall Placement
6. One click log-in and student registration facility.
7. Student profile capture system and resume generation
8. Company log-in and profile
9. Recruitment scheduling
10. Capture eligibility of students
11. Administrator Control Panel
12. Timely updates and Mock aptitude and student evaluation module

II. LITERATURE SURVEY

After some extensive reading and research on various papers and journal on placement activities we came to conclusion that all this paper contains features like resume generation, a simple UI website, a simple aptitude test etc. Besides all this features we are going to add features like analytical approach to all the data, recommendation system based on the data, automation of the placement system due to which the TPO office does not have to do the manual work.

Following Published papers we have studied during our literature survey. Table 1 shows the features, advantages and disadvantages on studied published papers.

A. Table

Table 1. Inferences from Literature Surveyed

Sr. no	Title	Features	Advantages	Disadvantage
1.	A Survey on Android App for Training and Placement cell	Email, sms, Automation registration.	Fast Registration, Reduce manual works from TPO cell.	Involvement of Admin.
2.	Training and Placement Web Portal, International Journal on Recent and	Resume uploading, Showing names of companies, Apply,	Fast registration, Reduce manual works	Complex in designing

	Innovation Trends in Computing and Communication	cancel options		
3.	ADVANCED TRAINING AND PLACEMENT WEB PORTAL	Resume uploading, Applying to the companies, Internships	Security, TPO forum section	Complexity in dividing alumni and current students data
4.	Placement Cell, IOSR Journal of Computer Engineering	Automation, Notifications via email and messages	Data dictionary, Fast registration, Reduce manual works	No placement coordinator account
5.	Web Based Placement Management System, International Journal of Computer Science and Information Technologies	Resume uploading, Notification of placement to students through email and messages	Used for maintaining multiple colleges details	Involvement of admin at each part of the process
6.	College Collaboration Portal with Training and Placement, IOSR Journal of Computer Engineering (IOSR-JCE)	Automation, Optimization, Security, Information, software and placement	Fast registration, Reduce manual works	Lot of works on TPO side
7.	TRAINING AND PLACEMENT CELL, International Journal on Recent and Innovation Trends in Computing and Information Technologies	Automation, Resume uploading, Internships	Fast registration, Reduce manual works	No notifications via messages and email
8.	Placement Cell, IOSR Journal of Computer Engineering	Automation, Resume generation, Notifications via email and messages	Data dictionary, Fast registration	No placement coordinator account
9.	Online College Portal, International Journal of Current Engineering and Technology	Automation, Resume uploading, Notification	Fast Registration, Reduce manual works, Involvement of staffs	Only involvement of TPO and not other placement coordinators
10.	Student Placement Management System (SPMS), International Journal of Advanced Research in Computer and Communication Engineering	Notification, Resume uploading, Internships	Fast registration, Less time of retrieving data	No involvement of other staffs except TPO

III. PROPOSED SYSTEM

Traditionally the job of registration was done manually by passing the registration form to the students. But this was too much time consuming and also incorrect. So the major need was for the automation by online registration by students themselves. The files in which the data is stored in Access file sheets that too separately for each class of department, so the files could be accessed by any one accessing the computer. These files may be confidential. So there is a special need for security. The Calculations done until now was done manually and fed into the access sheets. So the need arises for the automatic calculation of average/aggregate. The modified access sheets were not that able as, when we want to select students having 2 ATKT then the student with 0, 1, and 2 ATKT were select while required result is only of 2 ATKT. As mentioned earlier the data was stored separately for classes of each department the problem of searching was time consuming and as well the replication could occur. So there is a need for a centralized hierarchical structure. The only method for notification until now is by notice board which is not reliable. To countermeasure this problem the notification can be send by E-mail and mobile sms. So the need arises for the automatic calculation of average/aggregate. To reduce the job required to manage student information and the information of various recruiters, a new system is planned which is processed through computers. To develop a system that would accomplish the following

1. Reduce the paperwork and storage area.
2. Improve the output of operators.
3. Improve accuracy in result.
4. Allow easy navigation through CV's and company information.
5. Manage the man and machine resources efficiently.
6. It has user friendly interface having quick authenticated access to documents.
7. Easily scalable to grow with changing system requirement.
8. Secured check in, check out and updates.

IV. METHODOLOGY

Student Log-in

Student's Log-in has many features through which they can apply for the companies and take mock aptitude tests. Features are as follow

1. Resume generation.
2. Validation of resume through quiz/questionnaire for checking technical expertise.
3. User profile
(a) Data to be collected.
(b) Defining parameters.
4. Mock aptitude test section
(a) Quantitative questions.
(b) Logical questions.
5. Progress Performance ranking in graphical representation
   (a) Performance in mock tests.
   (b) Relative standing in class.
   (c) Relative standing in institution.
   (d) Pointers to improve based on mock aptitude tests

Industry Log-in

The first round of placement process is generally online aptitude tests. It totally depends on the industries how they willing to recruit students. The Industries who willing to take online aptitude tests can conduct tests on Vplacement platform. Features included for Industries are as follow.

1. Current trends what they require in prospective graduates- write up.
2. Requirements of tests and also test questions.
3. Screening of students based on online technical tests.
4. Industry can visit campus to take interview of such students only who have cleared the round 1 i.e. online aptitude tests.

Placement Coordinator log-in

Placement coordinator job is to look after all the intermediate process of placement. Features included for Placement coordinator are as follow.

1. Report generation/analysis.
(a) Department performance.
(b) Company wise application.
2. Messages between students and Training Placement Officer
3. Design mock tests i.e. time, questions, slots, venue etc. possible (for example, do not differentiate among

D. Training and Placement Officer Log-in

Training Placement Officer(TPO) has the vital role in whole process of placement. Features that have been included in TPO's Log-in are as follow.

1. Eligibility criteria filter based on industries requirements.
2. Notification to eligible students.
3. Feedback from industry(forum).
4. Offer letter acceptance in the portal.
5. Tracking placement oers and updating student's profile for further

V. ANALYSIS

Process Model

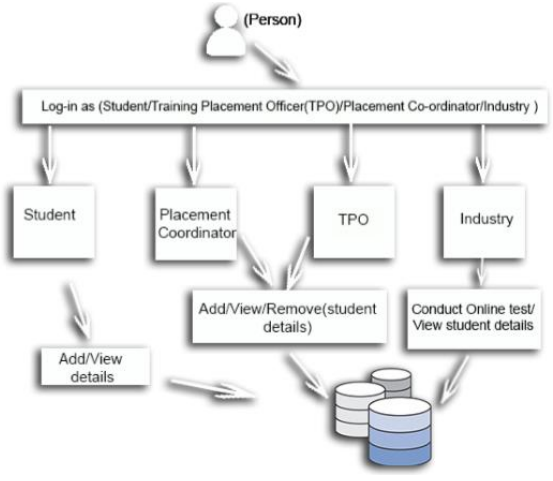

Figure 1. Process model of Vplacement

In the Process we have login for students, Placement Coordinator, TPO (Training and Placement Officer) and Industry. As shown in figure 1, student can add/view their details, TPO can add/view/remove(student details) and Industry can conduct online test/view student details.

VI. CONCLUSION

Thus hereby we conclude that the proposed system removes all the drawbacks of existing system and enhanced with the automatic e-mail system and dynamic notification system. The proposed system gives the automation in all the processes like registration,updating,searching.Proposed system gets automated in the online registration all the user, activation and deactivation of the user, personalization to the user, resources to be provided online, communication between the users. The admin can see the user information and will validate it, generate the student list based on the company criteria, company details can be provided to the user, searching and sorting can be done, and reports can be generated.. Overall, all the process of the training and placement department is automated.

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