

Automation of Conventional Training & Placement Management System

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Abstract— This system focuses on automation of conventional training and placement management system. This system can be used as an application for the Training & Placement Officers in the college to manage the student information with regard to placement and providing assistance using the assistance portal where students can post their query to the TPO and coordinators. Providing Student login helping them to update their personal and educational information in a form which will be added to the database and upload a resume and providing them with preparation materials for placements. An additional feature of the portal is a Company Tab which will be providing assistance to the companies to shortlist the students as per their eligibility criteria. It reduces the manual work and consumes less paperwork to reduce the time. Front end of the system is developed with the help of CSS, Bootstrap, and HTML. Backend of this system will be managed with the help of Java, Servlets and JSP's. Database management of this system will be done with the help of MYSQL database.

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department database making their chances of selection in the company almost negligible, even after they fulfill all the company requirements, and above all no legitimate or transparent communication between students and company makes scenario for students even worst.

In order to avoid this Web-based Placement management system is proposed where it will be extremely supportive to T&P department, students and companies in creating a healthy placement conditions and manage all problems with better proficiency.

It tends to create a fast access to all placement related procedure and ensures maintaining details of each and every student. Students logging should be able to upload their personal and educational information. This system will allow the company to view students resume in a selective manner. They can filter student profile as per the requirement with the help of company tab present in our portal.

I. INTRODUCTION

Over the years benefits of automated system are leading to more and more conversion of the manual process into automated. Increasing demand of automated system over the time in several setups like education is encouraging all these college and infrastructure to develop from a manually to a computer-based working system.

Over many disadvantages of manual working, one of the most important is that it makes process much slower and others including inconsistency and ambiguity on operation and thus increase the struggle tooth for students as well as Training and Placement department. Thus reducing the efficiency of work.

Training and Placement Department, on one hand, has to go through the strenuous process of sorting students as per company requirements whereas TPO struggles in providing guidance to aspiring students.

On the other hand, students suffer with altering information time after time due to outdated data present in T&P

II. EXISTING SYSTEM

Existing system does all process manually. Placement officers register the information of students. If any modifications or updates are required in the profile of any student, it has to be done manually. This is tedious and time consuming, and consumes large volume of paper and space. This process is so difficult when number of user's increases. Problems faced in existing system are as follows:

- TPO's have to collect the information and CV's of students and manages them manually and arranges them according to various streams.
- If any modification is required that is to be also done manually.
- TPO's have to collect the information of various companies who want to recruit students and notify students time to time about them.

- TPO's have to arrange CV's of students according to various streams and notify them according to company requirements.
- Collecting CV's of so many student is a difficult and time consuming task and also handling such a large collection of CV's is a great overhead.
- It is a time consuming activity of managing, updating and informing specific student for specific company requirements.

III. PROPOSED SYSTEM

The proposed Web-based Training and Placement portal meant to give more easiness to TPO, TPCs (Training and placement Coordinators) and students. The proposed system can overcome all the limitation of the existing system, such as Student's information is maintained in the database, proper notification for students, ensures data accuracy, reduces paperwork and save time, it makes information flow efficient and paves way for easy report generation, reduce the space. On opening the web portal you'll land on the main page of the portal giving information about the college. The system consists of three modules as TnP module, Student module, and Company module. Based on these modules three tabs are given in the portal namely TnP, Student, and Company. Each module has the same login page that contain user id and password field, by entering data in these field the user can gain access to the functionalities.

A. TnP Module

The TnP module has the authority to send notifications to the students, send invites to the companies, and maintain records of the students as the data will be present over the portal, categorization of the students as placed and unplaced can be done so as to clear the confusion while removing students from the placement list. Functionalities present in the above module is as follows:

- Sending invites to the company.
- Notifying the students regarding seminars or companies visiting the campus.
- Student data will be handled in more efficient manner as in present system the TPCs have to update student marks frequently which is a very strenuous work.
- Categorizing the students as placed and unplaced.
- Authentication and authorization of TPCs will be done by the TPO.
- A chat room for TPO and TPCs to answer the queries of students that will be posted in chat.
- A link to ask for placed students to write testimonials.

B. Student Module

The Student module has a registration as well as a login option. Students will use their PRN as their login and

password set by them for login purpose. Features present in student module are as follows:

- Preparation material for companies such as previous year interview questionnaire.
- YouTube videos on interview topics.
- Testimonials from all the students who are placed in companies. The testimonial will help the students in correcting the mistakes they are making in the interviews and preparation for aptitude rounds.
- Students will get notified about the upcoming companies and events.
- Notification of the seminars conducted by the college for placement will be sent as well.
- Students can see complete company profile such as its background, working environment, live projects, placement procedure, and growth of the company in last years.
- Contact with the alumni of the college.

Apart from the above mentioned features there are some beneficial functions present in the module which will provide assistance to students. These functionalities are as follows:

- Students can upload their resumes.
- Updating marks of each semester
- Uploading Semester, SSC and HSC mark sheets.
- Students can also apply for the post of TPC with the help of this module.
- Queries faced while applying for companies and interviews can be asked to the TPO with the help of chatroom benefit of the chatroom is that there will be a more transparent communication between the student and the TPO
- Students can read testimonials featuring the Q&A's with placed students which will mention the tips and tricks they used to get placed.

C. Company Module

The user of the company module of the system is the companies visiting the college for recruitments. Initially, recruiter must need to login to the system by entering valid user id and password that will be provided by the TnP module i.e. TPO while sending the invite to the company for visiting the campus with the help of TnP module. Companies update their details like company name, information about itself and the job profile they are offering. After updating the details, the recruiter will be seeing a form containing text fields and radio buttons such as minimum percentage required, year gap allowed etc. based on these details students will be sorted and a list of all unplaced students that fulfill the criteria will be listed along with a hyperlink to see the resume of the students. Features of this module are as follows:

- Automated Company Format of student data.
- Easy access to students resume.

- Easy filtering of students according to the companies eligibility criteria.

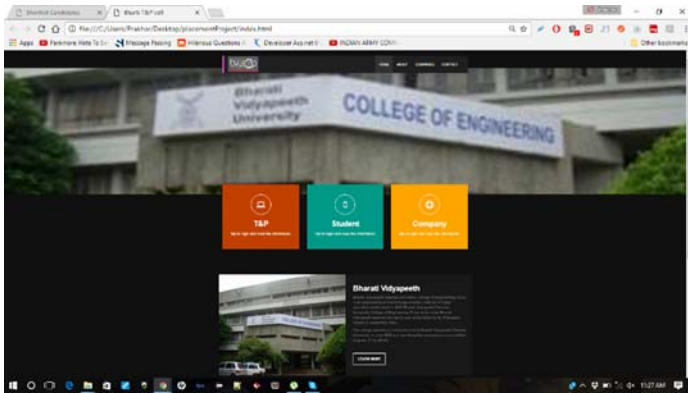


Fig. 1 Home Page

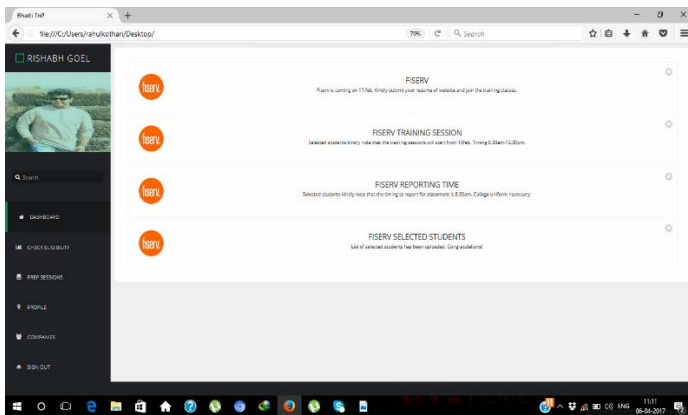


Fig. 2 Student Tab

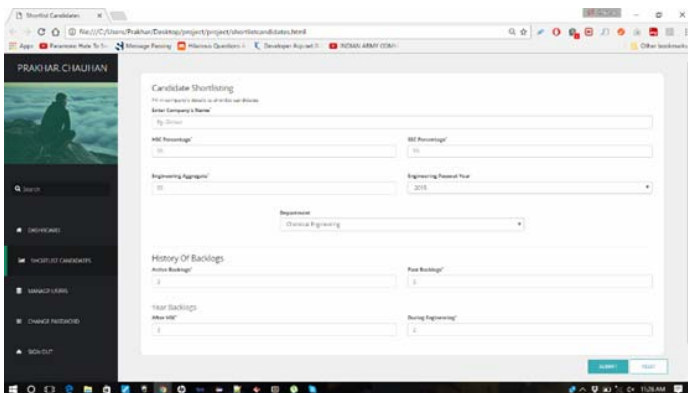


Fig. 3 TnP Tab

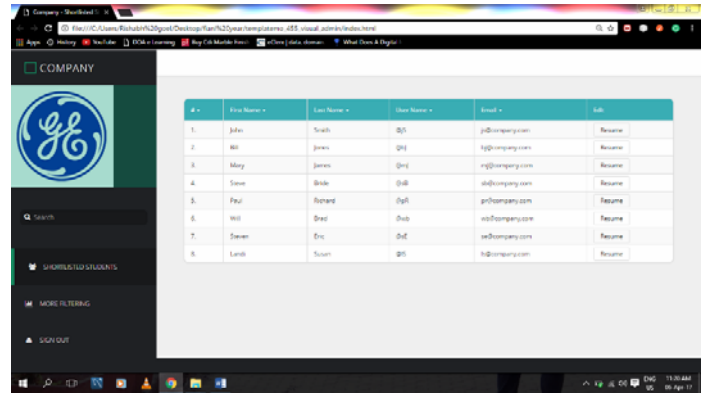


Fig. 4 Company Tab

IV. IMPLEMENTATION OF SYSTEM

The biggest benefit of automation is that it saves labor. Our main objective was to save energy and materials and to improve quality, accuracy and precision with the help of this portal. According to our survey with the TnP coordinators (TPCs) on most tough and annoying job that they have to do while working for TnP department and what features they would like to see in the TnP web portal. Problems faced in existing system according to the survey conducted is as follows:

- Notifying the students
- Writing Invites to the companies
- Mailing each and every student about company details and other information.
- Providing list of eligible students as per company format which is different for each and every company.

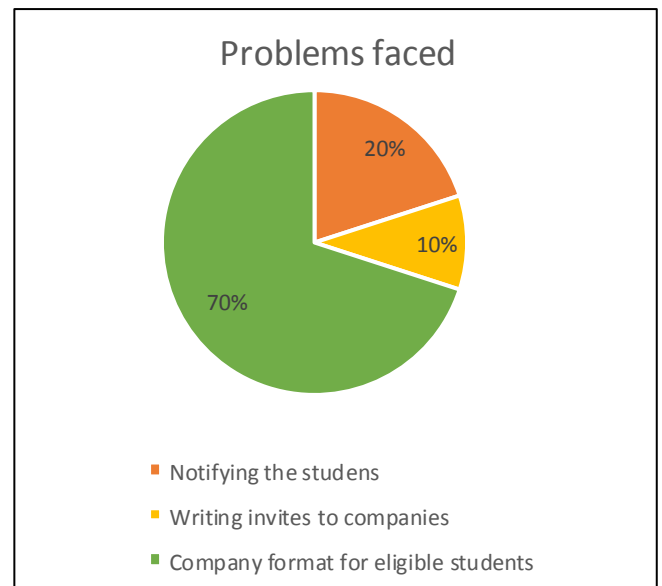


Fig. 5 Pie Chart of survey results

According to survey results 70% of TPCs find company formatting a difficult job, 20% finds that notifying student a difficult task and last 10% find writing invites to companies an annoying task. Solutions to the above mentioned problems in existing system are as follows:

A. Automated Mailers

Automated mailers is a feature accessible by the TPO and TPCs. Mailing each and every company & students is a frustrating job, with the help of automated mailer TPO and TPCs can easily invite companies and also bulk emailing to student will be a much easier job.

B. Company Format Automation

As mentioned in the survey the most annoying task is to create a list of all the unplaced students that satisfy the company requirements because every company requires a different set of parameters and a different format, so formatting is done again and again which is a time consuming job so to reduce this problem a feature of company format automation is added in the web portal.

This feature allows the company to filter the students as per their requirements and basic eligibility which is a win-win for both TPCs and Companies as they will get their job done much more easily.

C. Notifying the Students

Students generally faces a problem that they don't get notified properly as some of them don't uses WhatsApp or they don't get a proper mail from the Training and Placement department. So to overcome this problem a notification system is added.

With the help of this feature student will get notified. As a pop-up will be generated on their desktop notifying them of upcoming seminars, events and companies.

V. FUTURE SCOPE

Betterment is always an open door in a project in proposed online placement system there is scope for improvement of the system. The system can be modified to give the SMS integration which has not been included in the system presently. Other features such as giving notification to students about the jobs that are available both on and off campus can be included in the upgraded version.

Analytics dashboard feature can be added in future to this portal. This dashboard will track the progress of student in particular areas such as aptitude test, technical test etc. This will notify students of the areas they are lacking in.

VI. CONCLUSION

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 great demand for such 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 paper that it requires we here have a minor role to save Mother Nature. So we hope all of you can sit back and relax and enjoy the luxury of Digitalization. More so in this busy and exhausting life we are saving one of the most crucial factor that keeps us running that is human energy.

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