

Smart Training & Placement System

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Abstract

The 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.

Keywords

HTML; Bootstrap; CSS; Java; Servlets; JSP; MYSQL;

I. Introduction

The project is aimed at developing an online web application for the training and placement department of the college. The system is an online web application that can be accessed throughout the Institute with proper login provided. This system can be used as an application for the TPO of the college to manage the student information with regard to placement. Student logging should be able to upload their information.

Organizations representatives logging in may also access/search an information put up by the students. TPO have to collect the information and manage them manually according to various streams. If any modification is required that is also to be done manually. Overall it will reduce the paper work and utilize the maximum capability of the setup and organization as well as it will save time and money.

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. Problems faced in existing system are as follows-

- Searching of eligible students is done manually by TPO based on the company criteria.
- The records were stored in modified excel sheets hence sorting problem.
- The duplication of records was usual hence data redundancy.
- TPO's have to collect all the information and Resumes of students and organize them manually and sort them according to various streams.

- Collecting CV's of so many student is a painful and time consuming task and handling of too many CV's is a great overhead.
- It takes too much time to managing, updating and informing specific student for specific company criteria.

III. Proposed System

The main purpose of proposed Web based Training and Placement portal is meant to give more easiness to TPO, Placement coordinators and Students that they can modify and access information so quickly.

The system provides a better way to maintain students information in the database, ensures data correctness and data integrity as well.

The system also reduces the paperwork time and provides an efficient information flow between different system modules.

Our system consists of different modules to interact with. Firstly, on opening the web portal you'll land on the main page of the portal which showcases information about the college.

Secondly, there are three tabs given in the portal namely T&P, Student, and Company. Each module has the same login page consisting of user id and password field for gaining access to the functionalities of the system.

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A. T&P Module

The T&P Module has the authority to manage various functionalities of the system. This module will be handled by an Admin (say Training and placement Officer) who has the authority to:

- Add company details,
- Provides authentication for registered students,
- Add news feed and,
- Update company data.

Overall records of the students will be presented over the portal like the data of all placed and unplaced students which will reduce the bottleneck of confusion among students.

B. Student Module

This Module consist of a login option and registration window for unregistered students. Students will use their choice of username and a proper specified length password. The functionalities provided in this module consist of:

- It helps the Students to update their details anytime.
- The students would be able to view the company requirement.
- Students will be provided with a link to apply for the company if eligible.
- Previous Years placement paper and material is also provided.
- Students can see the complete profile of the company. Such as recruitment procedure history CTC offer and the working environment.

C. Company Module

This module will provide an access to a company to interact with the system. The user will be the companies visiting the college for recruitments. Here, the user will be provided with valid user id and password by the T&P Module.

- Companies would be able to update their details like job profile they offering, requirement criteria and other information related to the recruitment drive.
- The company after updating the information will be able to view the form containing text fields such as minimum percentage required, year gap allowed and the backlog history.
- According to the given criteria the students are sorted and a list will be generated.
- Therefore, the user will be able to view the students data and a list of eligible students.

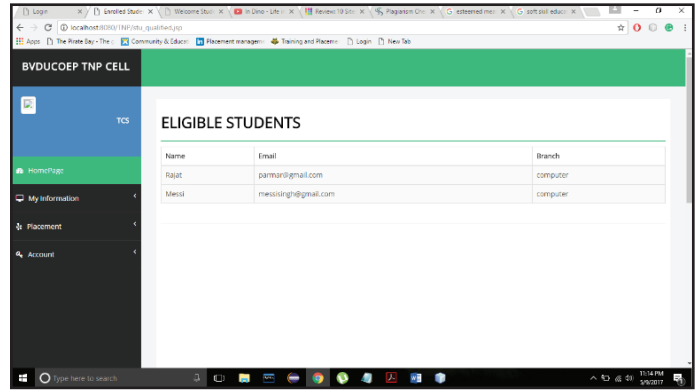


Fig. 4: Company Tab

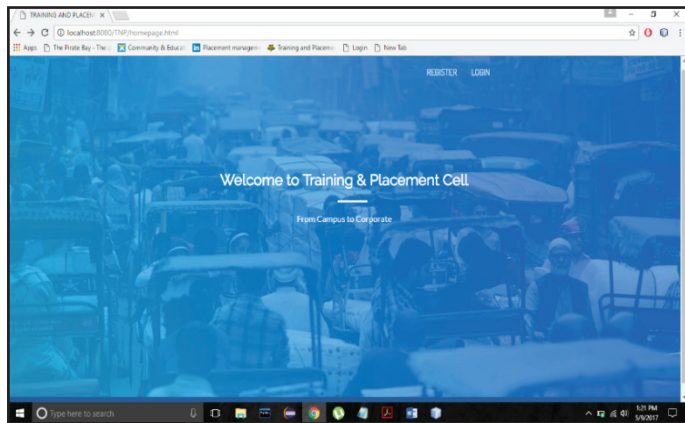


Fig. 1: Home Page

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.

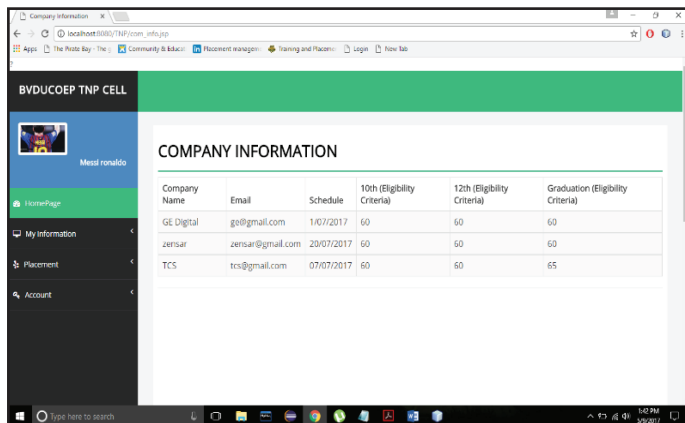


Fig. 2: Student Tab

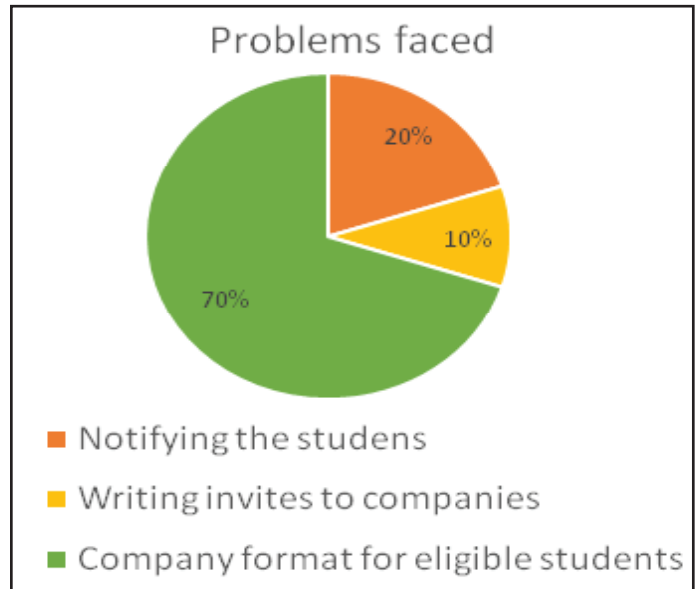


Fig. 5: Pie Chart of Survey Results

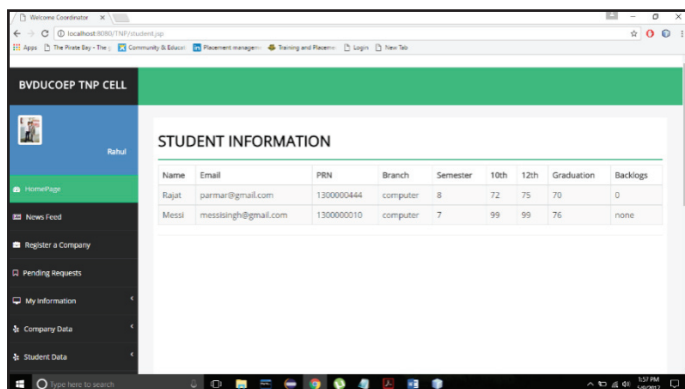


Fig. 3: T&P Tab

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

The development of this project has many new areas of investigation. This project has wide scope to implement it at any University/Institution.

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 versions.

The system cannot provide the SMS integration. Hence, it can be modified to give the SMS integration.

Other features like analytics can be added in future to this portal for tracking the progress of student in specific areas. After analysis this system 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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