Training and Placement Office Automation System

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Abstract: *"Training and placement office automation system" present web portal designed for managing training and placement data. The objective of this project is to develop a system that can be used by placement cell of a college. The aim of this paper is Automation of Training and Placement until that will include minimum manual work and maximum optimization, abstraction security. This is an web application the purpose is to design a system that provides functionalities to perform the activities related to placement services. It is based on complete modular architecture. This modularity of the architecture will allow us to replace or add modules in the future as a way to enhance a particular feature of particular situation.*

Keywords: *TnP system, Data mining, TPO, security.*

1. Introduction

The earlier system is not computerized. All transactions in the system are done manually by maintaining records. It takes much time for a placement officer to collect and approve the details of students. There is poor communication between students and placement officer. . The proposed system is a web based application and maintains a centralized repository of all the necessary information. The system allows students to access details of recruitments. Training and placement automation system is the data entry is done at a place of occurrence of transaction. This had reduce paper work to large extend. This get information any point of any time. The college collaboration system with training & placement term. The software for the training and placement cell of a college is a vital need for the students and the institute management for the purpose of proper placement and training of the aspiring students of the institute. It helps the students to provide their profiles to the training and placement cell of the institute, update their respective profiles (with their gradual approach towards course end), get to know about the companies coming for the on campus/off campus/pool/group pool

categories of campus interviews. The system remains connected with the profile databases of the various students to continuously monitor the variety of scopes available for the students' placement.

2. Significance of the Problem

The questions this work can provide the solutions to, can be given as follows:
- What type of students the colleges have according to their academic scoring?
- How many students will eligible to attend placement process and having chances to get campus placement?
- Predict in advance, the same for pre - final year students?

3. Problem Definition

In an existing system, all processes at the time of placement of students are handled manually by accessing the student information from respective department, which is very slow and consuming much efforts and time. This process is so difficult when the number of users increase. There are many limitations for the existing system; all the work done at placement cell is by human intervention due to which there were more chances of errors. There may be chances of loss of opportunity. Since the number of students are growing and management has to handle records of all students. It is facing a little bit problems in maintaining the records of students .It is required to design of a computerized student automation module to speed up capability.

4. Proposed Methodology

In existing system, everything is carried out manually and all data is maintained in excel sheet. Maintaining and managing data is difficult task. TPO needs to refer all the documentation maintained for further working and keep the document updated. Users Profile wise collaborative filtering. To overcome these drawbacks of existing system, the proposed system will be developed. Proposed system will provide easy retrieval and updating of data for TPO and easy uploading and updating of data for

student. Each user has different authorities and responsibilities. TPO can access the information of students. Classification of eligible student is done by using mahout's naïve bays classification algorithm and shortlisted students are sent notification by SMS or E-mail.
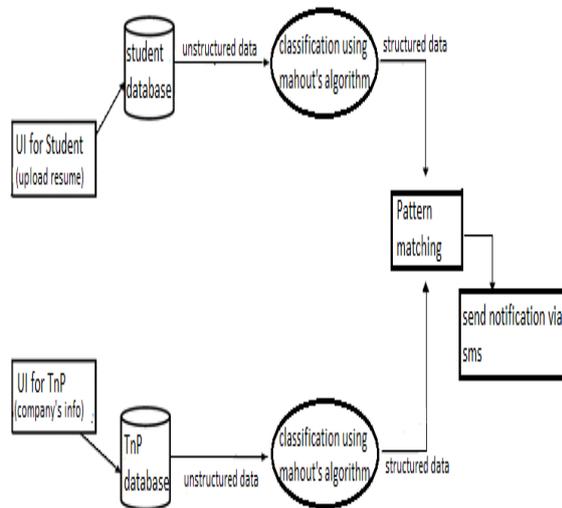
The administrator is the master user; he gets the most number of priorities than the other users. The different functions involve the case of an administrator are updating, approval. The administrator can view and approve the various application forms.
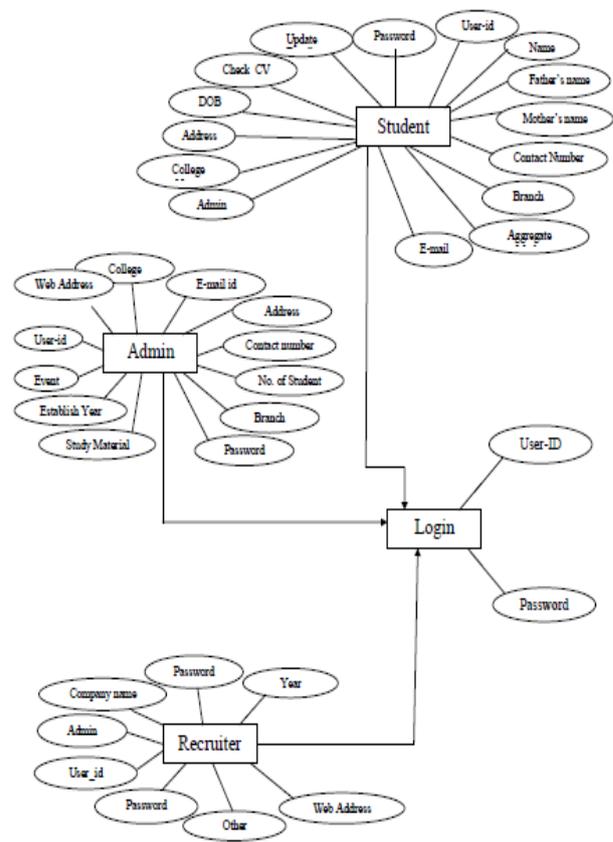

Figure 1: System Architectural Design

Figure 2: ER Diagram of the modules

5. Proposed Solution

To reduce the job required to manage student information and the information of various recruiters, a new system is proposed which is processed through computers. To develop a system that would accomplished the following:-

- Reduce the paperwork and storage area.
- Improve the output of operators.
- Improve accuracy in result.
- Manage the man and machine resources efficiently.
- Easily scalable to grow with changing system requirement.
- Secured check in, check out & updates.

6. Proposed System

The proposed Training and Placement System meant to give more easiness to the users that they can add and retrieve information so quickly. Once you open this web application at the front end all the schedule/event are available to everyone. Also in the every current student login this schedule/event are available. There are mainly six types of users they are Current Student, Alumni, Training and Placement Officers (TPO) of the college, Training and Placement Staff, Departmental Staff and Companies.

7. Benefits

- Proactive management of the student lifecycle.
- Get all the data in one place and help in decision making.
- Long term cost benefits.
- Can seamlessly communicate with all student of the institution.
- Better knowledge of the factor affecting sour institution.

8. Application

- Reduces the work pressure of the tnp cell.
- Provides the information of students placed.
- Informing students about the events going to take.

- Easy recovery of student data.
- Applicants will be able to complete all processes online, including the ability to upload supporting Document.
- The web server and database server should be protected from hacking, virus etc.

9. Future Scope

Based on the results the college can decide to conduct workshops and make more efforts to improve student's performance by mainly focuses on A and C category students. The further work on segregation (clustering) using more detailed behavioral data and by considering teachers point of view about student's extra curriculum activities and by other existing performance indicators. Other possible future works are predicting company name i.e. which company may hire what type of student. For this purpose association of companies' basic requirement and student's qualification is to be done. A data ware house can develop to track academic performance and placement team over a long period of time.

10. Conclusion

This software is one of the convenient tools today in the case any college become necessary to record and maintain information of the student. To keep record of college in a computer large amount of data store and update whenever necessary. After the system has been studied, designed, developed and tested. The following conclusions were created. The Developed system can guarantee to keep the records are safe and privacy which is stored in database. In placement system there are many problems to maintain, searching, sorting the entire huge data. The system is provide solutions such as automates the placement procedure for any college. Using Mahout's Naïve Base classification algorithm, it converts and classifies the unstructured data into structured and sorted format. Pattern matching techniques are applied on the data.

11. References

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