Abstract

Now days it is very big task to manage students job placement information in every college. At present the student job placement process are involved with lots of manual work to maintain the data and to get the statistics of the placement drives. In This work we have developed a web platform which will manage 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 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. And also this advanced web portal provides the statistical report of the individual placement drive.

I. INTRODUCTION

The placement activities of earlier system are not computerized. All transactions in the system are done manually by maintaining records. The training and Placement cell maintains records of students wherein all the information of students including the personal records and the academic performance is stored. Everything is maintained either through Google forms or by the manual writings. It is difficult to coordinate students, companies and interviews. The proposed system is an application (portal) and maintains a centralized
repository of all the necessary information. The system allows students to access and edit all his/her details from the portal, once the editing is done the portal has the list of companies and shows whether the student registered is eligible for the particular company or not, based on the cut-off and backlogs. And also notify about the new recruitment process. The placement officer has the entire list of the students applied for the recruitment and also the statistics of the results of each and every placement requirements drives. Admin is the supreme power of the system who has the entire information of the student. Admin have the authority to change/modify each module or data at any time.

II. LITERATURE REVIEW

Web mining is one of the biggest task now a day and we can get any required information from the World Wide Web. Web content mining is the process of information discovery from sources across the World Wide Web. The second, called Web usage mining, is the process of mining for user browsing and access patterns. The referred papers [5] presents an overview of the various research issues, techniques, and development efforts and briefly describe WEBMINER, a system for Web usage mining, and conclude the paper by listing research issues. Database management system enables many features to handle the data. Database system configures a storage model in accordance with a hierarchical tree-like structure to enable fast and comprehensive data extraction functions. Description about entities, attributes and entity occurrences. The relationship between each entity, attribute and entity occurrence with every other entity, attribute and entity occurrence. The expressions are stored in an expression set table linking each element of each expression with a natural language phrase or data definition. Events are recorded in an entity history table each event having an associated expression. Data extraction from the database according to a multi-character query expression comprising characters that are deterministic to the query and characters those are non-deterministic to the query [1]. Apart from the web mining it is also very important to know about the data mining. The data mining technique explains about the Clustering of data into groups of similar objects. Explains how clustering can be viewed as a data modeling technique that provides for concise summaries of the data, therefore it is related to many disciplines and plays an important role in abroad range of application. Applications of clustering usually deal with large datasets and data with many attributes. Exploration of such data is a subject of data mining. This survey concentrates on clustering algorithms from a data mining perspective [4].

III. METHODOLOGY

The project is aimed at developing web pages for placement department that includes complex database which contains data about all students which can be further used for data mining process for strategic report generation. Figure 1 shows the clear architecture of the entire work.

This application contains two main processes

• Back end process
• Front end process

![Diagram of Architectural flow diagram of the application.]

**Back end process:**
The back-end, or the server-side, is basically how the site works, updates and changes. This refers to everything the user can’t see in the browser, like databases and servers. In back-end we manage the security, structure and content management. In back-end development, we create a dynamic site that’s constantly changing and updated in real-time. This is restricted side for the users of this application. Here we use data normalization technique by: arranging data into logical grouping such that each group describes a small part of the whole, minimizing the amount of duplicate data stored in a database, organizing the data such that when we modify it we make the change in only one place, and building the database in which we can access and manipulate the data quickly and efficiently without compromising the integrity of the data in storage. The project has facility of maintaining the details of students such as number of student placed, number of rounds cleared by students, etc. We must maintain the list of student’s record and maintain the company record based on the company requirement we need to select students and make a list of it.

**Front end process:**
Abstractness is differing for various users in different hierarchy at the front end. The front-end process is involved with what the user sees, including design and some languages like HTML and CSS. We design the web page which the user sees where the students will be allowed to login and fill their information’s and view the events, company details and other news. The placement officer can view the student information with regard to placement as the admin as specific facilities.

**IV. RESULT ANALYSIS**
This Application includes three main modules and each module contains different sub modules.
• Login
• **Student Panel**
  - Application Form
  - Student Profile Overview
  - Registration
  - Eligibility Detection

• **Admin Panel**
  - Event Creation
  - Registered List

**Login**
User must register before login to the portal. When the user visits the portal it will be redirected to the login page. The login page is shown in the figure 2. Initially the username and password is given by the administrator, and then user is told to change the password.

![Figure 2: Login Page](image1)

**Student Panel**

• **Application form**
Once the student logs in to the portal for the first time, he/she will be redirected to application form page as shown in figure 3, where he/she has to fill all the details. The details include Student Name, University Seat Number (USN), Address, Marks, and Backlogs etc.

![Figure 3: Application form](image2)
• **Student profile overview**

Once the students fill the application form with the necessary information, He/she has his own profile created. The figure 4 shows the profile overview. Here in this page it shows the entire placement details of the respective students.

![Student profile overview](image)

**Figure 4: Student profile overview**

• **Dashboard**

Dashboard is the home page of the portal. All the upcoming event details will be posted here by the placement officer. The figure 5 shows the overview of dashboard. The students can register to the events by clicking on more details, which will redirect to registration page.

![Dashboard](image)

**Figure 5: Dashboard**
• **Registration**

This page is used to register for any placement drive. When the student clicks on more details he/she will be redirected to registration page which is shown in Figure 6. If the student is eligible he/she can register to that event. If case any student is not eligible for any placement drive, that particular student can’t be applied for the event automatically.

![Figure 6: Registration](image)

• **Eligibility Detection**

This is the phase where in students eligibility is checked. The eligibility criteria is measured based on the things like last date of registration, marks, backlogs. If he/she is not eligible, the message will pop up as shown in figure 7.

![Figure 7: Eligibility Detection](image)
Admin Panel
Admin is having the supreme authority in this application, admin has a separate login. Once the admin logs in, he/she can create an event or view the student details.

- **Event creation**
  When there is some placement event taking place, the admin has to visit the event creation page then the event is created by filling in all the event details as shown in figure 8. The event details will include the company name, date, place and eligibility criteria.

  ![Figure 8: Event creation](image1)

- **Registered list**
  The admin gets the list of students registered for the event. Through this he/she can monitor whether student has registered or not (figure 9). And he/she can send a reminder to the student. And the Placement officer and the admin can view the Statistical report of the each event.

  ![Figure 9: Registered List](image2)
V. CONCLUSION
The placement and training process of the colleges are involved with lots of things. The campus interview process includes various stages like Aptitude, Group discussion, Technical, and HR etc. The difficult task is not only maintaining the student details also track how many students placed successfully and how many are failed in each stages of the interview process. Student feedback will be the important key information to track all those things at different level. For that reason, we need to collect the student feedback after each campus interview process. Student feedback is the key information to identify the trend and statistics of the every placement drive. This is not so easy to do with the present application. This Advanced Decision Supporting System for Student Placement enables all these features in a single platform. Based on the report and statistics generated from this web enabled tool, placement officer can take the appropriate decisions to get the good success in future placement drives. Moreover this tool easily supports for the various future enhancements based on the requirements.

VI. REFERENCES

TO CITE THIS PAPER