

Web Based Placement Analysis And Tracking System

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Abstract:— Training and Placement Cell is the management cell it is supported by databases. Training and Placement has the major role in every college in which most of the work till now is being done manually. The aim of this project is to Automate the Training and Placement procedure in the college. This project will reduce manual work and maximum optimization, abstraction and security. This is a web application which will help students as well as the administration authority to carry out each and every activity in the campus hiring. The system is an application that can be accessed throughout the organization with proper login credentials. This system can be used as an application for the Training and placement officer (TPO) of the college to manage the student information with regarding to the placement recruitment. Students logging should be able to see which placements are coming soon, attendance ,etc.,

Students login should able to view eligibility criteria based on their cgpa for the up-coming placement drives and they can access technical and QA papers regarding to particular company.

Keywords - updation, online training and placement management system, TPO, databases, students, eligibility

I. INTRODUCTION

The current system are computerized but it does not meet to the point that are needed by the Training and Placement Cell. So to overcome the limitations we are proposing the new system. In existing system the data taken by the students is maintained automatically but to sort them according to the companies criteria has to be done manually by the TPO's. Manual sorting is a hectic job and can sometimes it lead to inaccuracy.

The main purpose of this project is to add a new features of existing system to developing an application for the Training and Placement Department of the college[6].As it is an online application, so it can be accessed easily throughout the organization as well as outside .In the student record contains personal details, educational qualifications, professional skills and academics.

This system behaves as a central repository of all the student information. So this system can be used as an application for the TPO in the college to manage the student information about regarding to the placements for upcoming company . The users can easily access data and it can be retrieved in less time.

This Online Training and Placement system, manages all such activities that will save time, manpower and the biggest advantage of being it web based application. This

system is designed in such a way that it will receive the exact requirements given by the company and will automatically check for the matching student profile for placement.

The job details of the placed students will be provided by the company to the admin or coordinator. The administrator plays a major role in our project. He creates users(co-coordinators, faculty access, student, etc.,) and update student details, company details also.

II. OBJECTIVE

Existing system does all process has done by manually. Placement officers maintain the information about students manually. If any modifications or updates are required in their profile of any students, it has to be done manually. This is very difficult task for Tpo to maintain the student data and company details as it is time consuming, lack of security of data and also it takes more man, etc., This is so difficult to the Tpo when number of user's increases.

The proposed website includes the following features:

- Training and placement department maintains the details of each student.
- Students can view the status of their upcoming campus.
- Search feature helps to admin because they check particular student is present or not

- Admin can only update student details and academic records like email id, current semester, correspondence address and marks obtained in different semesters via csv file.
- Provides a proper communication channel between student and training & placement department using the sms.
- Latest information about which company is visiting the campus is provided in the website which helps the students to get updated information quickly.
- Website is user friendly with more GUI so that student view the information easily[5].
- Duplicate registrations can be avoided and hence it provides reliability.
- Only administrator can modify the Placement and organization record if needed.
- website more helps to make a short list of students who get placed in certain Company and who is unplaced. student can manage passwords, access technical papers and view eligibility criteria for on-going recruitments. Coordinators maintaining the attendance records of CRT classes.

III. MODULES

Admin can create user roles (like coordinators, students). Student role enters their credentials after that change password and view their details and will be non editable and only admin can change the information if they required. Admin can only the access to all the forms and modify the details if they want to inform.

TPO(Admin):

Tpo can manage students information, create users (coordinator, faculty, etc),enter the company details which are upcoming to the college, manage the placed and unplaced student details,

TPO can generate reports based on the given criteria and save it in different formats like comma separated values, pdf and excel so that it could be easily accessed and search for an optimal way using keywords, digits.

Coordinator:

Coordinators can view the student details, company details, track the ongoing campus recruitment process which was going in the college, mark attendance that is present the CRT classes, they can view the students list who are eligible for the on-coming campus based on the based companies criteria, dynamically adding student details out of shortlisted students, upload direct recruited students that are placed in the off-campus and also uploading previous technical papers according to company[5].

Student:

Students can only view their details stored in the TPO's database .Students can manage their passwords and access previous technical papers according to up-coming

company. Students can view their status (like eligibility criteria) for up-coming placements. They can view the company profiles which are coming to the college. Student first login with their credentials as username and password after successfully validated there are navigating to password reset page then student home page.

IV. PROBLEM ARCHITECTURE

Admin can maintain all student details and company details into the database, upload papers regarding to the upcoming companies to the college and he can also create the new usernames and passwords. Admin can send the messages which company are visited to the college through the sms. There are four types of users Admin, TPO, Coordinator and Student. Admin is the master user having most priorities than other users. Admin provides access to different users like TPO and Coordinator.

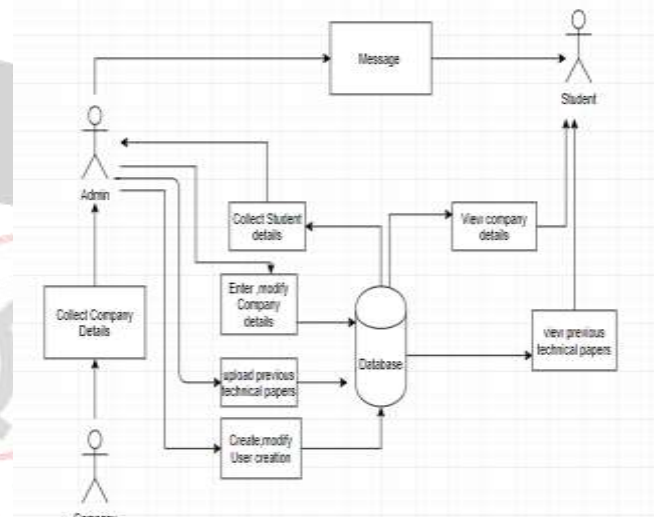


Fig.1.Problem Architecture

V. IMPLEMENTATION

Application:

This application is based on web technology. This application is built using web technology.

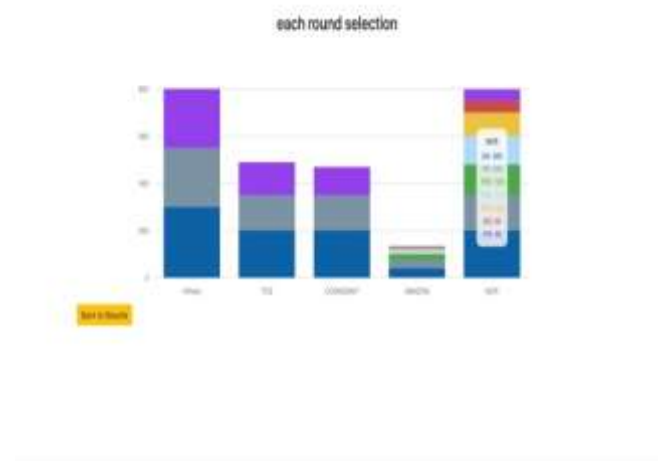


Fig.2.Each round count

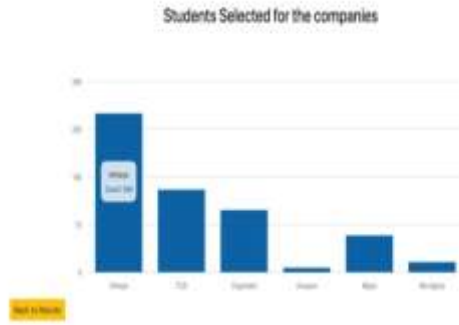


Fig.3. placed students count

Admin can analyse the students who are going to campus recruitment and which one is qualified next rounds. Based on this analysis Bar graphs will generate and it will shows howmany students were selected for the particular company and it will shows the count for selected students.

Database :

In Placement Management System, MYSQL is used as a database to connect the database in the XAMP server using PHP[4][7]. Only authorized persons are allowed to access the database in the XAMP server.

VI. TESTING TOOLS

1. Bugzilla
2. Selenium

Bugzilla:

Bugzilla is an open source bug tracking system that allows developers to keep track of problems with their products. It is written in Perl language. It can be connected with My Sql database[6].

Advantages:

1. provides Security
2. Advanced Search Capabilities
3. Time Tracking

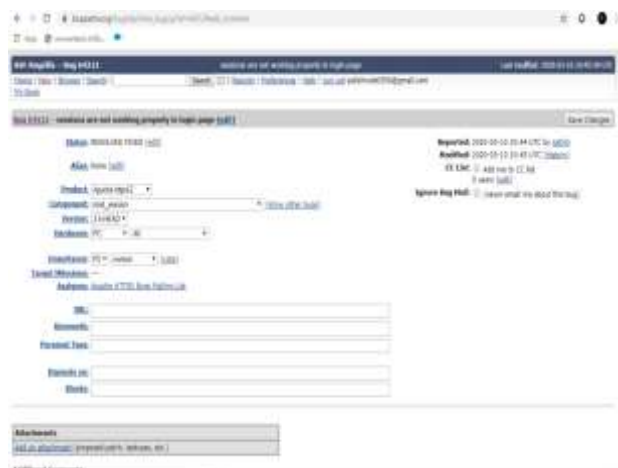


Fig.4. BugZilla

Selenium:

Selenium is free and open source and it is automation tool. It provides a playback tool for functional testing for learning to test scripting language. Selenium is an API that works with Java, C#, perl, ruby, python to automate browser activities[6]. It provides a user friendly interface that helps to create and execute scripts easily[8]. It provides multi-browser supports means one selenium script for all browsers.

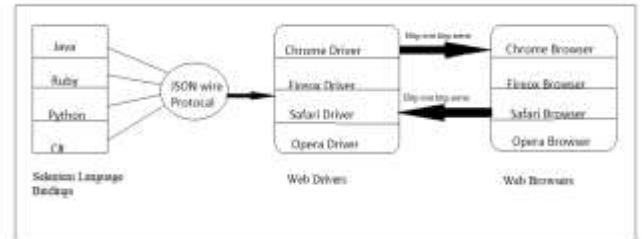


Fig.5. Selenium Architecture

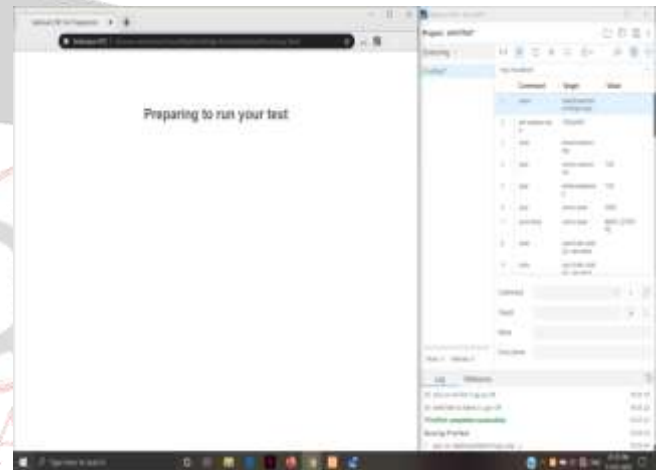


Fig.6. Selenium output

VII. INPUT

First Admin login page after that it displays admin homepage or login other users (like co-ordinator, hod, etc.) it displays their corresponding home pages.



Fig.7. Login Page



Fig.8.Placement Details Page

Admin can store the company details which are coming for our college campus drive

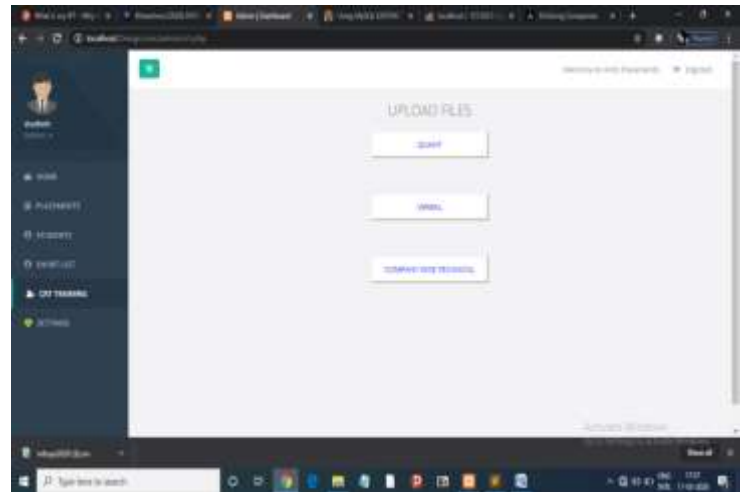


Fig.11.Uploading Previous Page

Admin has only access to create the users (like co-ordinator,hod,student,etc.) other than admin no one can create users



Fig.9.Company Details Entering Page

Based on companies criteria Students will be shortlisted in this page

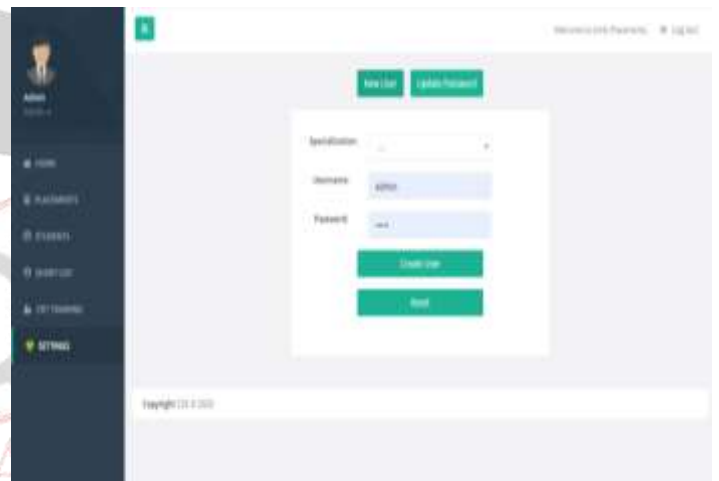


Fig.12.User Creation Page

Admin import the student details at starting of joining

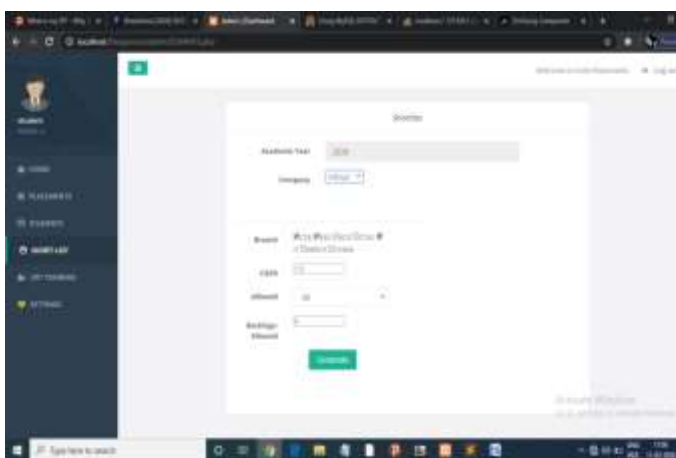


Fig.10.ShortList page

Admin can upload the previous company paper for better preparation of students for upcoming companies.

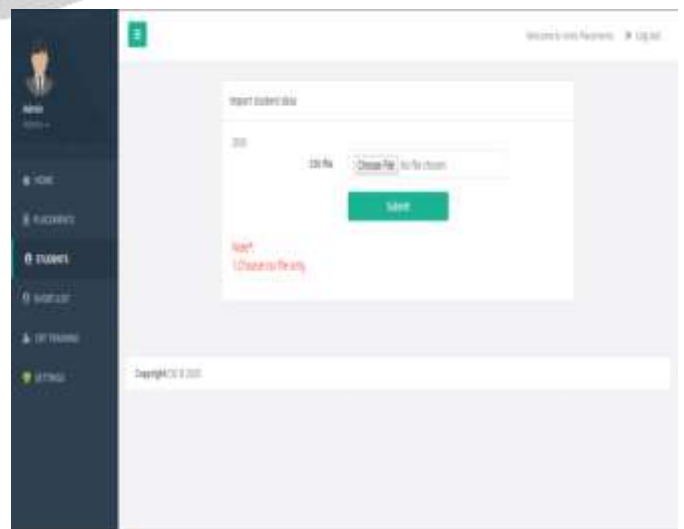


Fig.13. Upload Student Details Page



Fig.14.Student login page

VIII. OUTPUT

Managing student details like update, attendance for students presenting Crt classes,etc.,



Fig.15.Managing Student Details Page

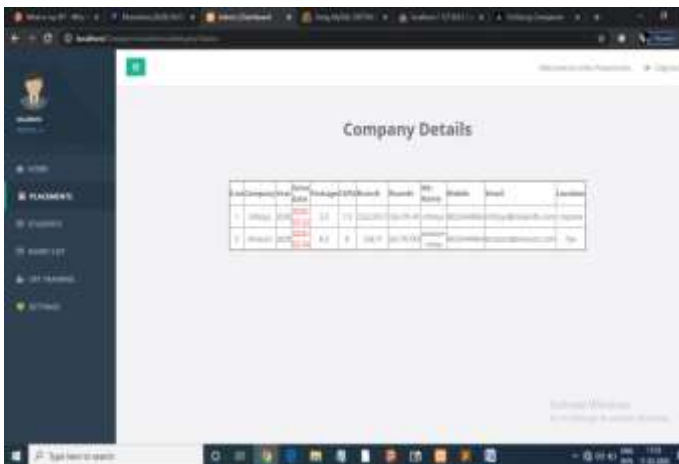


Fig.16.Display Company Details

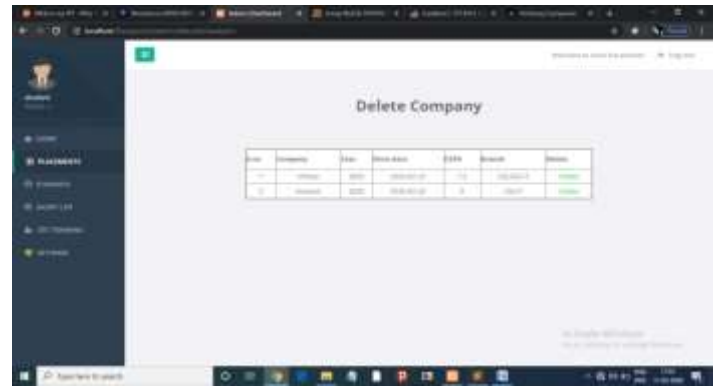


Fig.17.Delete Company Details

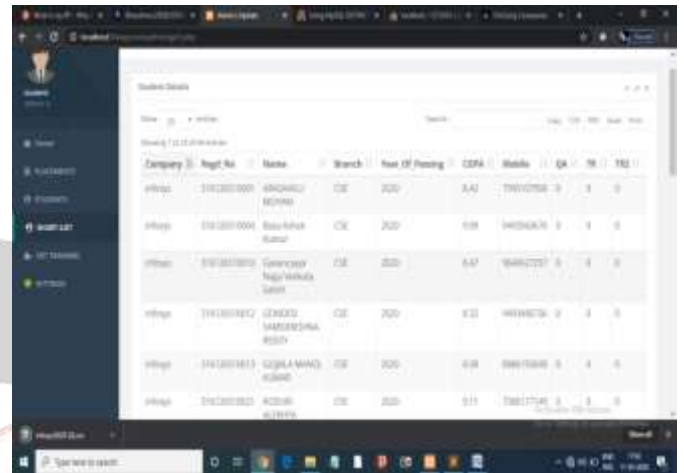


Fig.18.Display Shortlisted Students



Fig.19.Company-Wise Papers

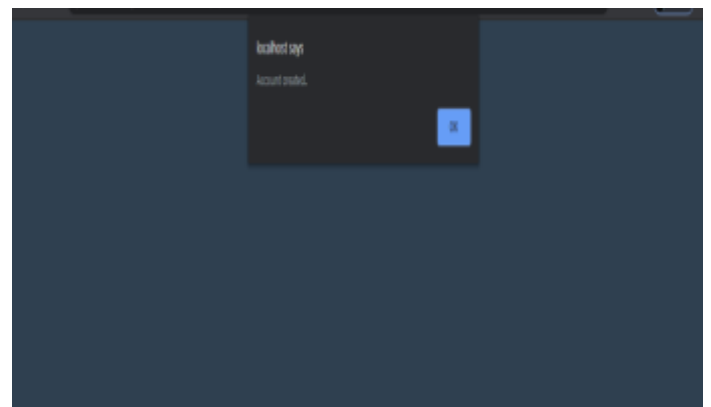
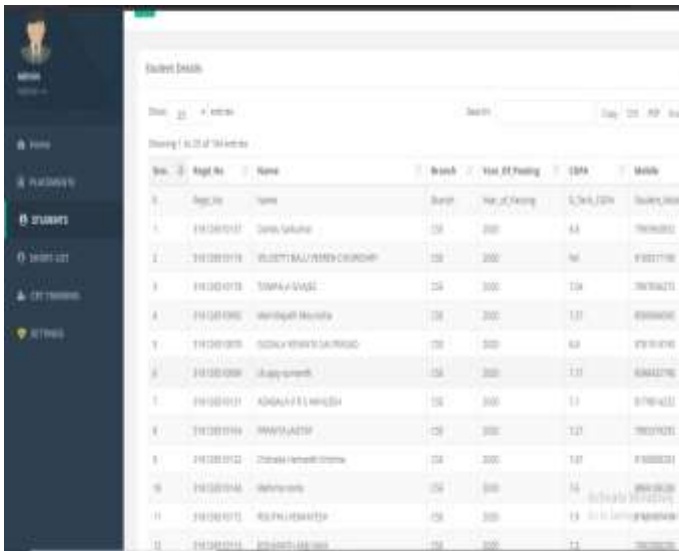


Fig.20.User Account Created



Sl. No.	Regd.No.	Name	Branch	Year of Passing	CGPA	Mobile
0	2102010001	Amal Sakhar	CSA	2020	6.3	76660801
1	2102010110	WISSEYBAU/SEBHA/CHURCH	CSA	2020	NA	93027710
2	2102010120	SOMFA/SAVED	CSA	2020	2.04	38070621
3	2102010130	WISSEYBAU/SEBHA	CSA	2020	3.37	49999400
4	2102010140	SOMFA/SAVED	CSA	2020	6.4	97910190
5	2102010150	WISSEYBAU/SEBHA	CSA	2020	3.37	63443790
6	2102010160	ADGAL/SEBHA/CHURCH	CSA	2020	3.3	87804232
7	2102010170	WISSEYBAU/SEBHA	CSA	2020	3.37	38027021
8	2102010180	WISSEYBAU/SEBHA	CSA	2020	3.37	81088031
9	2102010190	WISSEYBAU/SEBHA	CSA	2020	3.4	98010820
10	2102010200	WISSEYBAU/SEBHA	CSA	2020	3.3	6111111111111111
11	2102010210	WISSEYBAU/SEBHA	CSA	2020	3.3	6111111111111111
12	2102010220	WISSEYBAU/SEBHA	CSA	2020	3.4	38027021

Fig.21.Display Student Details



Fig.24.Student papers download page



Fig.22.Student Homepage



Fig.25. Students registration page



OnGoing Companies

S.no	Company	Job Role	Fields	Package	Work Location	Type of Recruitment	Date
1	Infays	UI	SATEAR	13	Hybrid	Onampus	19/04-2020

Fig.23.Student page



Fig.26.Password Change Page for Students

IX. LITERATURE SURVEY

Almahdi Alshareef, Ahmed Alkilany basically focuses on providing a simple interface for the easy collation and maintenance of all manner of student information. The creation and management of accurate, up-to-date information regarding students' academic careers is critical students and for the faculties and administration of Sebha University in Libya and for any other educational

institution. A student information system deals with all kinds of data from enrollment to graduation, including program of study, attendance record, payment of fees and examination results to name but a few. All these data need to be made available through an Online Interface[1].

Prabhu T Kannan, Srividya K Bansal focuses on providing information to support the operation, management and decision-making functions of enterprises or organizations. In the face of huge amount of information, it is required to possess the student information management system to improve the efficiency of student management. Through this system, the standardized management, scientific statistics and fast query of student information can be realized, and thus the workload of management can be reduced. In this paper, a typical student information management system will be established to realize the systematization, standardization and automation of student information relationship[2].

S.R.Bharamagoudar, Geeta R.B, S.G.Totad focuses on simple interface for maintenance of student information. The creation and management of accurate, up-to-date information regarding a student's academic career is critically important in the university as well as colleges. Student information system deals with all kind of student details, academic related reports, college details, course details, curriculum, batch details, placement details and other resource related details too. It tracks all the details of a student which can be used for all reporting purpose, tracking of attendance, progress in the course, completed semesters, years. Different reports and Queries can be generated based on vast options related to students, batch, course, faculty, exams, semesters, certification and even for the entire college[9].

Shiqiu Huang,R zhang,zhengwei Qi investigated on the Dynamic taint analysis is a prevalent approach to protect a program from malicious behaviors, but fails to provide any information about the code which is not executed. This paper describes a novel approach to overcome the limitation of traditional dynamic taint analysis by integrating static analysis into the system and presents framework SDCF to detect of ware vulnerabilities with high code coverage. Our experiments show that SDCF is not only able to provide efficient runtime protection by introducing an overhead of 4.16 based on the taint tracing technique, but is also capable of discovering latent software vulnerabilities which have not been exploited, and achieve code coverage of more than 90%[3].

T. H. Davenport and J. D. Brooks investigated on reports on a literature review focusing on challenges to post-implementation of enterprise resource planning (ERP) systems in a multinational context. Through an extensive literature search for multiple databases, they identified 20 articles which address issues in this context. Global demands prove to be a key challenge and source of conflict

between parent and subsidiary companies: frequently, parent companies seek control through standardized solutions, while local subsidiaries aim to sustain local processes and routines[11].

Michael Rosemann,Jens Wiese investigated on Measuring the Performance of ERP Software The management of Enterprise Resource Planning (ERP) Software includes two main tasks: the implementation and the use of this comprehensive software. The Balanced Scorecard, a framework originally developed in order to structure the performance measurement of an enterprise or a department, can be used for the evaluation of these tasks[12].

X. CONCLUSION

In the existing system most of the the work will be done manually, as it takes more time for any changes in the system. The major problem with this existing system are notification method available is not available for giving information about student expect the notice board or circulars. The proposed system is online training and placement management system gives the automation in all the process of campus recruitment, searching student details individually[8]. It is very helpful, reliable and performs well functional to get an alert message on cell phone. Also this system helps us to take the record of alum This system in future could be joined to sms server so that it can notify the message to students via sms for up-coming companies. TPO Just enter the requirement of company and according to that the list of eligible student get display and TPO notify them.

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