



Online Placement Repository Using Web Services

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Abstract— *ONLINE PLACEMENT REPOSITORY is a web application to maintain students' academic detail by the placement cell. This application helps all the students to enroll their semester wise marks required by the placement cell for campus interview. Students are informed about the placement through Bulk SMS and Email notifications by the administrator. Using this system both the administrator can easily maintain each and every records provided by the students. The admin can easily be able to segregate the students in the system based on the company's need and it is easy to maintain the records by the administrator in more efficient way the any existing systems.*

Keywords— *Placement repository, Student registration, Campus info, Campus guidance, SMS/Email, Eligibility criteria*

I. INTRODUCTION

The use of Internet and World Wide Web revolutionized the provision of information and the facility for the user to take action on the information obtained. The use of internet enables users to manage placement process. This led to a unique web based placement management system developed specifically by the placements practitioner and the software programmer to become Online Training and Placement (OPR) system.

ONLINE PLACEMENT REPOSITORY is a web application to maintain students' academic detail by the placement cell. This application helps all the students to enroll their semester wise marks required by the placement cell for campus interview. Students can enroll their academic details in a more user friendly and secured format. By creating the account in this application students are provided with information such as companies visit to campus, off campus details, frequently asked questions in interviews, aptitude questions, group discussion videos as a guidance to the students for the preparation of interview.

This system also holds information regarding the experience of the candidate those who got selected in the interview which helps other student as a part of their preparation. Through this system the administrator i.e., the placement cell authority can easily sort out the candidates who meet all the requirements specified by the company for attending the interview. Students are informed about interview by the placement officer via SMS and Email notifications to the corresponding students

II. PROBLEM DEFINITION

Placement Management System is the function responsible for the coordination and controlling the placement cell activities in an optimum manner. Before developing the system placement cell used to handle all the documents regarding collecting the students' academic details manually. First student had to fill the form which includes students' personal as well as the academic details such as name, register number, department, course detail, subject wise grades, GPAs, CGPAs etc.,

Disadvantages:

- Traditionally placement officer keep the record manually.
- Those records may not maintained properly

III. PROPOSED SYSTEM

- Placement Management System allows the application users to store the students' details in the application itself.
- As soon as the user is registered with the application a unique Identification number is assigned to him automatically which remains throughout his/her academic career.
- Using which the user can get updated information regarding the placement activities anywhere at any time.
- The user is informed about the interview details via mail also so that the user can easily keep track of the placement cell activity more effectively.

Advantages:

- Records are maintained electronically so there is no chance for poor record maintenance.
- Easy to maintain by the concerned authority.
- Students are informed about the interview on time and get more benefits regarding their campus preparation.

IV. ARCHITECTURE

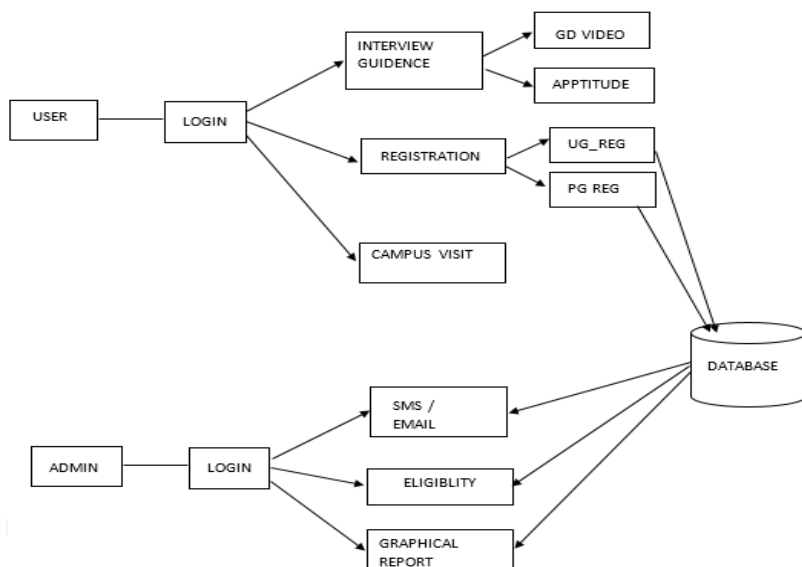


Fig. 1. Architecture of placement repository

V. MODULE DESCRIPTION

INDEX page contains the information about the system and its purpose. It also contains the place new user registration, user and administrator login modules, placement cell activity and a guideline to access the entire system user's beneficiary.

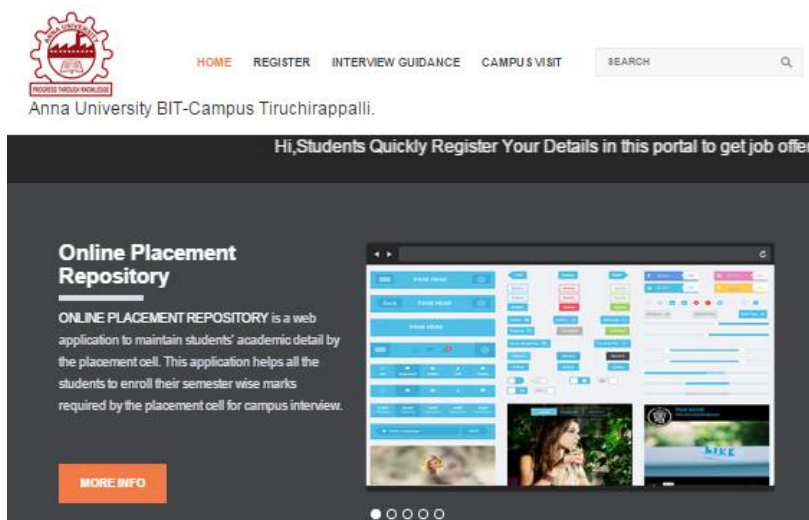


Fig. 2 Index module of placement repository

USER module contains the sub modules which holds the information such as UG and PG registration, Interview guidance for students which include top companies Group Discussion videos, aptitude question with answers and companies campus visit details.

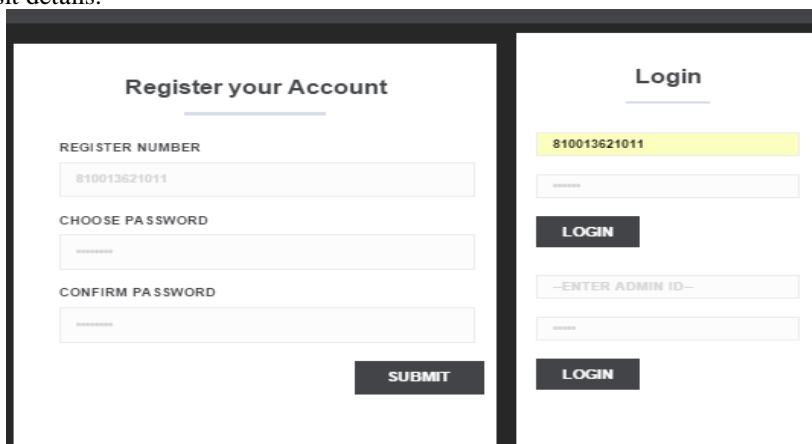


Fig. 3 Index module of placement repository login page

ADMIN module contains information for administrator regarding eligible candidate filtration module those who are registered in this system based on the company's requirement. Placement alert to the eligible candidates via SMS and Email notifications and graphical report which indicates the placement achieved by the college and in what company.

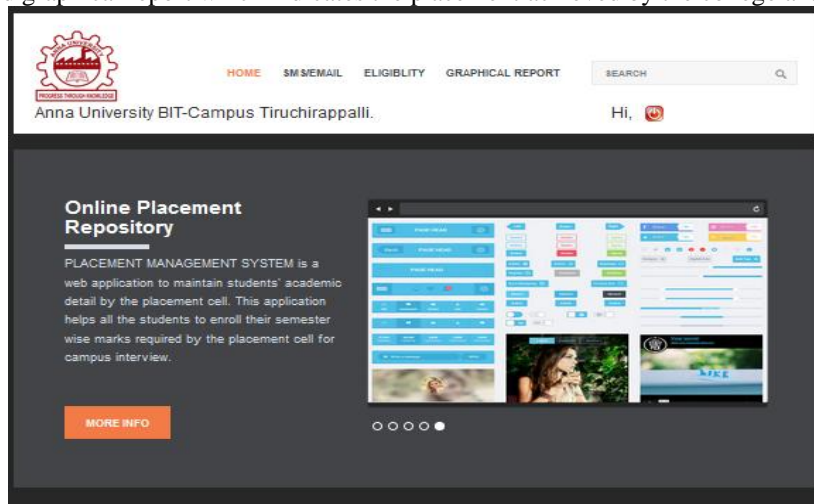


Fig. 4 Admin module of placement repository

REGISTRATION module helps the students to register their academic as well as the personal details for further communication with placement authority in this system. The information collected from the candidate are registration number, name of the student, gender, mobile number, email id, mark detail from sslc, hsc, diploma(if applicable), UG semester wise percentage, overall percentage obtained, PG semester wise percentage, overall percentage obtained, backlogs, gap in academics.

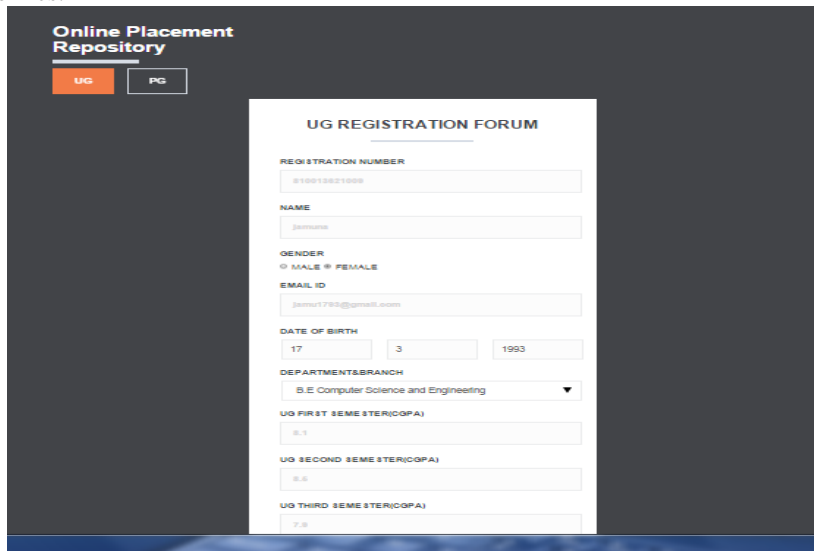


Fig. 5 UG registration forum image

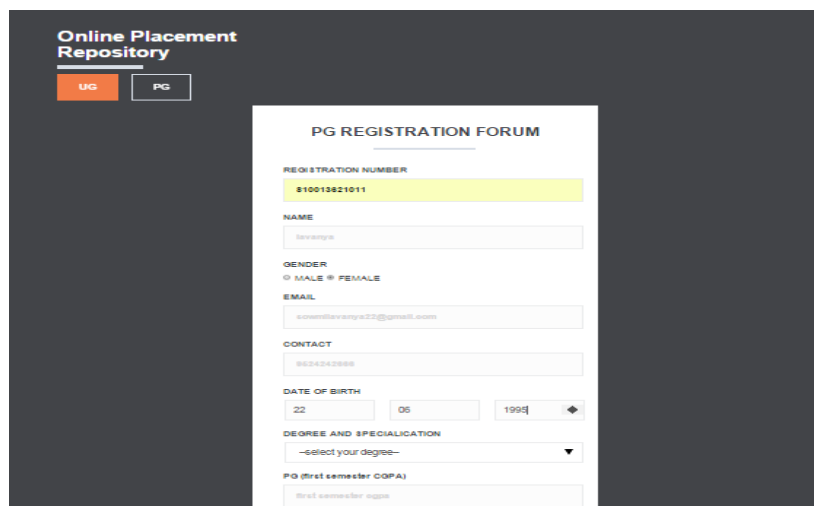


Fig. 6 PG registration forum image

INTERVIEW GUIDANCE module guides the registered candidate by providing top companies standard group discussion videos, aptitude papers to solve it for first level return exam. Papers are provided with answer keys too. These paper help the students to test their logical, verbal, analytical, reasoning and technical skills.

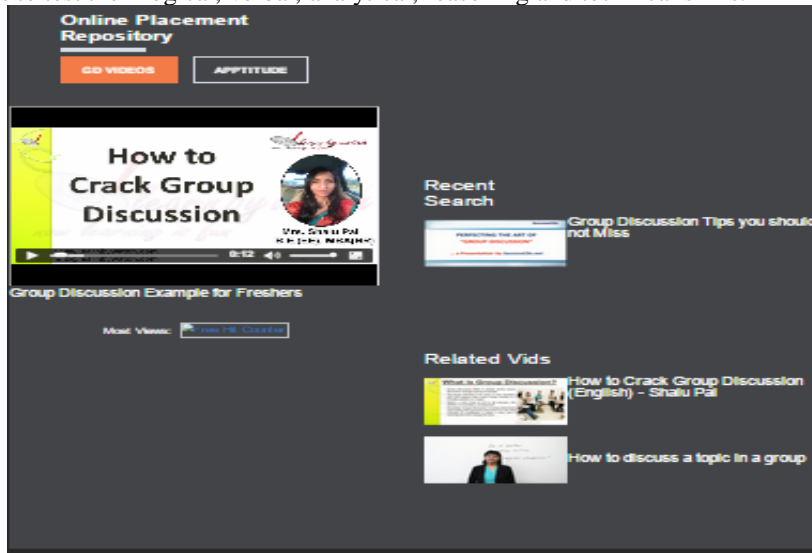


Fig. 7 Group discussion videos

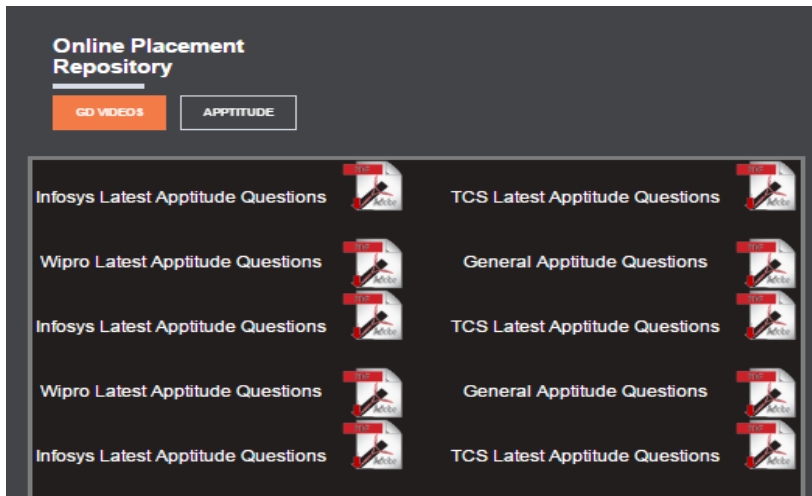


Fig. 8 Aptitude Question

CAMPUS VISIT module helps the student know when the company is visiting the college and what are all their basic eligibility and needs from the students.

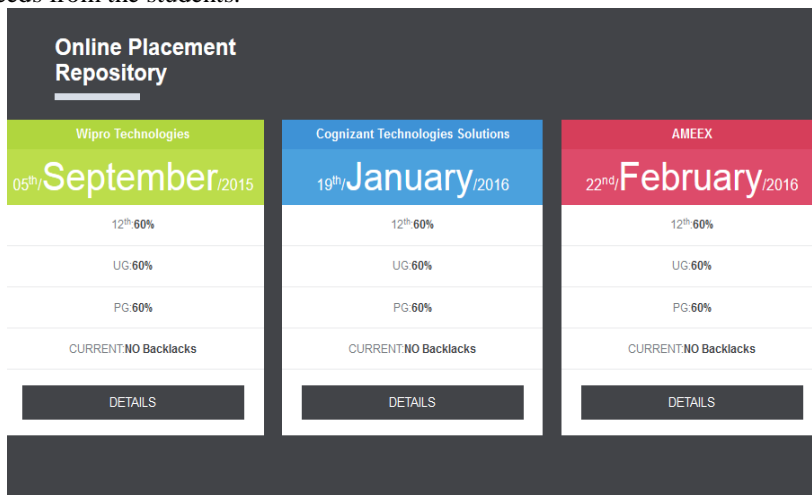


Fig. 9 campus visting

PLACEMENT CELL module contains information about placement cell, recruitment procedure, placement statistics, coordinator desk, authority information and contact details.



Fig. 10 placement details

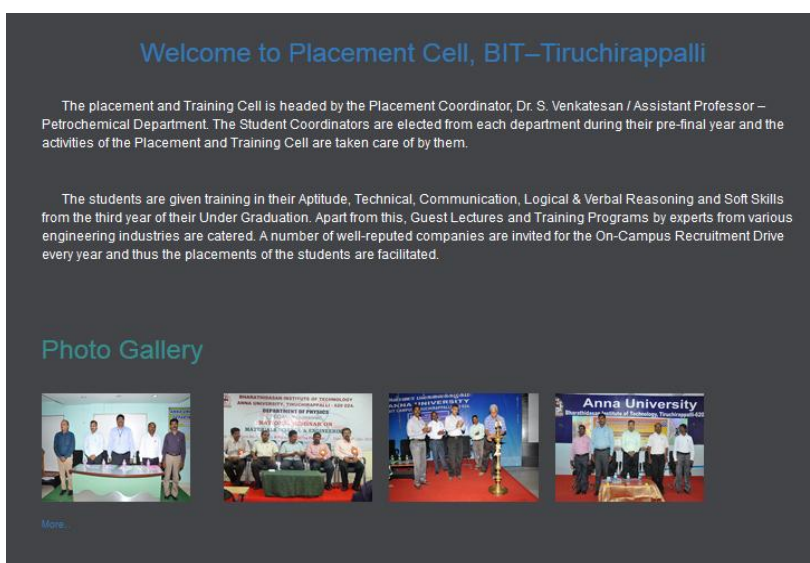


Fig. 11 About placement

PLACEMENT CELL contains the information about placement cell activities, history and operational functionality of the cell.



Fig. 12 Co_ordinator details

RECRUITMENT PROCEDURE contains the information about how the students are recruited by the placement cell during company's visit to the company and the procedure followed by the placement cell for recruitment of students.

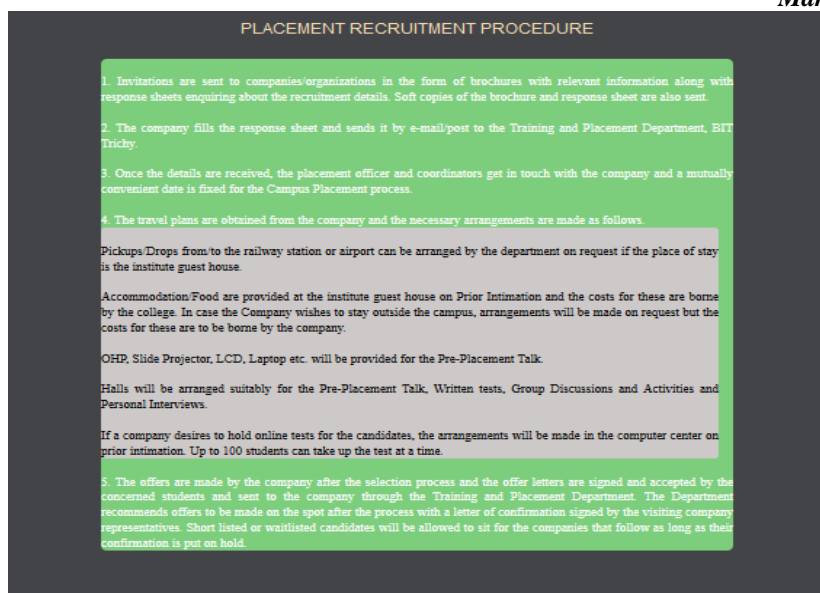


Fig. 13 Placement recruitment procedure

PLACEMENT STATISTICS contains the history of students such as his / her name, register number, batch, department etc., being placed in the company from the college.

CO-COORDINATORDESK, AUTHORITY INFORMATION, CONTACT DETAILS contains the information about placement authorities name, contact number, designation and other further details provided to help the students to know information and queries regarding the placements.

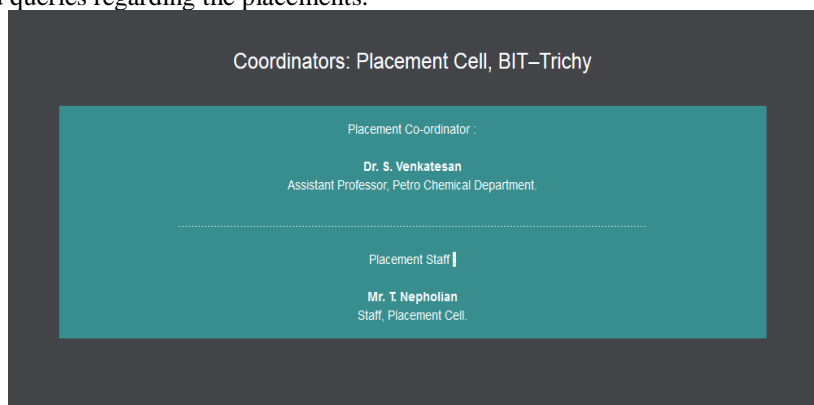


Fig. 14 Co_ordinator details

ELIGIBILITY module helps the administrator to sort out the registered candidate based on the companies need and eligibility criteria and an SMS /Email is instantly send to that particular candidate as a notification. This module helps the administrator to fetch the candidate details in a more easy and efficient manner which saves the time to a great extent.

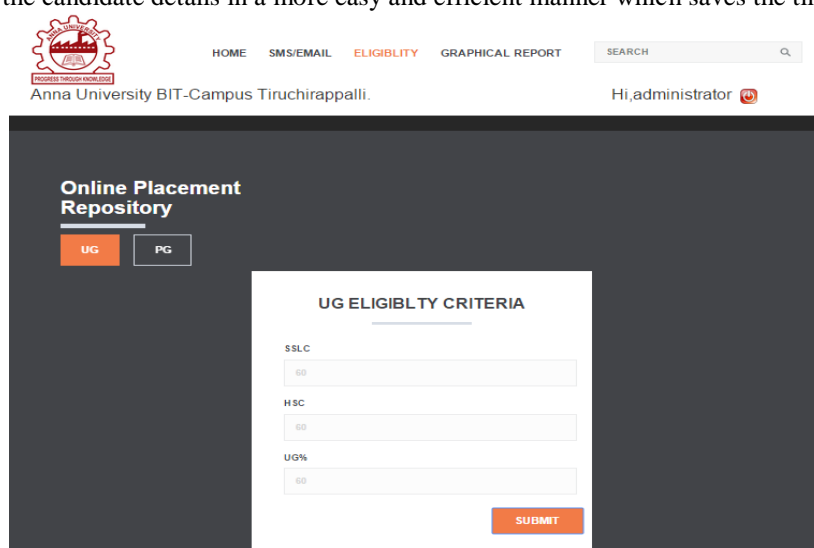


Fig. 15 Eligibility details

SMS and EMAIL module helps the administrator to send prior notification about interview date to the eligible candidates via SMS / EMAIL rapidly and an instant communication between user and administrator is possible here to reduce the communication lapse among them.

SEND A MESSAGE

Receipient	<input type="text" value="8760098180"/>
Message	<input type="text" value="TCS is visiting on 19.9.2015"/>
Message type	<input type="text" value="SMS:TEXT:GSM7BIT:CLASS1"/>
<input type="button" value="OK"/>	

Fig. 16 Sms sending

GRAPHICAL REPORT module shows the amount of students placed in several companies in the current academic year which helps the placement cell to strengthen their placements for the forth coming years.

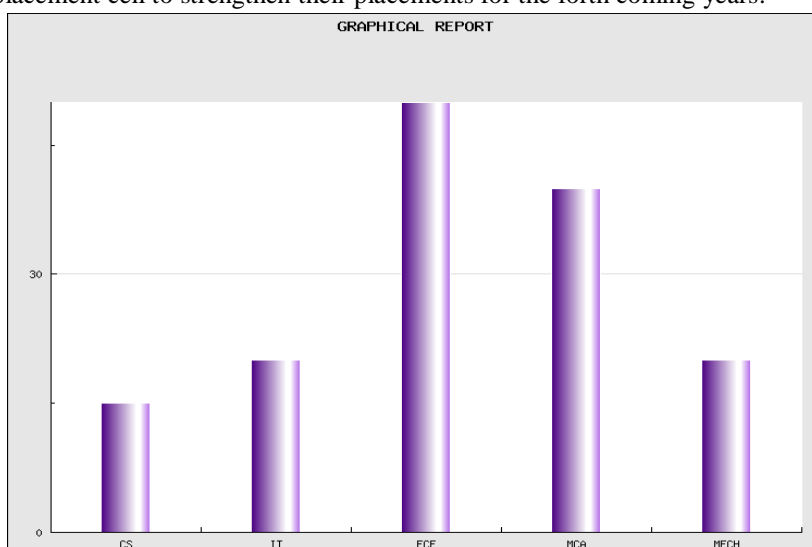


Fig. 17 Graphical representation

VI. CONCLUSION

In the existing system, maximum work had been done manually and it is error prone system, takes time for any changes in the system. The big problem is storing, sorting and updating of the student details and no any notification method available for giving information to student expect the notice board. In the Online Placement Repository System provides automation in all the processes. The system gets automated in the online registration for all the students, resources to be provided online such as aptitude questions, GD videos, etc., communication between the student and admin is possible, online feedback, other setting option such as notification is send to the user by means of Email and SMS. The admin can see the user information and will validate it, generate the student list based on the company criteria, company details can be provided to the user, searching and sorting can be done, and reports can be generated by means of graphical and grid report format. Overall, all the process of the Online Placement Repository for student is automated.

Quality assurance in guiding the students to attend interview properly is a tedious process. Online Placement Repository System provides quality implementation solution in maintaining student details and guiding them for the interview.

VI. FUTURE WORK

The system is designed with the maximum possible excellence. Though the system has accept drawbacks, as it is a human effort. The system can be made more users friendly. The program is coded in more structured manner so we can include future enhancement. There is scope for improvement of the system. Apart from these there is scope for generating many more features. This software can be extended easily without affecting the functionality. In the future, we can place the system on the cloud so the maintenance of the data can be reduced. There can be many more future enhancement and improvement in Online Placement Repository.

REFERENCES

- [1] Mr R J Laird* Bsc and Cdipaf Dr C R Turner Mima Cmath Csci- Interactive Web-based Placement Management – Principles and Practice using OPUS, 2009
- [2] Mr.Nilesh Rathod and Dr.Seema Shah and Prof. Kavita Shirsat- An Interactive Online Training and Placement System- Volume 3, Issue 12, December 2013
- [3] Tracy Kimbre l, Malgorzata Steinder ,Maxim Sviridenko , Asser Tantawi- Dynamic application placement under service and memory constraints
- [4] Ma. Catherine and A. Reyes -Students' Information System and Services - Jan. 15-16, 2014
- [5] Laird, R. J., & Turner, C. R. (2007a, June). *OPUS online placement management supports UK QAA Code of Practice*. Paper presented at 15th World Conference on Co-operative Education, Singapore.