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Campus placement process automation portal

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ABSTRACT

Campus Placement Process Automation Portal is a web-based system which is implemented on the basis of the placement process system being presently used in the University for storing and retrieving the information of students and companies. Placement process system maintains a large database of students wherein all the information of student including the personal records and the academic performance is stored and company information including a profile of company, eligibility criteria and facilities. The software developed retrieves this data and displays as per the user requirements. This placement process System is developed as an attempt to take a record of company and students. The Placement Portal provides the facility of viewing both the personal and academic information of the student and company. It also facilitates to search eligible students, company and insertion and deletion of records by the administrator. Eligible students will receive an email including the details of the company date and time of the interview and location will be provided.

Keywords— Online placement, Automation, Module, eligible student, Training and Placement Officer (TPO), Admin, Data flow diagram

1. INTRODUCTION

Online placement system plays a very important role in college. It aims at providing help to automate and simplify the registration Process and list of eligible students generated for placement. This system performs all the work regarding placement like a collection of student data, authentication and activation of student profiles and notifying eligible students of a particular company. Nowadays, students join the college for better education as well as for better prospects for their future. Here, the placement activity performs a major role. In the existing system, manual entry and transactions are followed. This system is highly error-prone and time-consuming. There is

also a lot difficulty in managing the database of all the students. Large files of records are to be maintained. Training and Placement Officer (TPO) has to collect the information of various companies who are willing to recruit students and notify students about all the necessary updates. Managing, updating and informing specific student for specific company requirements is time consuming. A large number of companies visit for recruitment in Campus every year and recruit eligible students from the campus. The Placement Officer handles the entire recruitment process beginning from announcement of company schedule to hiring students by seeking help from a few placement coordinators. The use of traditional technology and methodology for the entire process makes the process difficult for the students. During this process, the college students are dependent solely on the placement coordinators, who are prone to irregularities and mistakes. When it comes to preparing for the aptitude test and interviews, there isn't a one-stop platform where the students can prepare from. Making the whole placement process easier and lot more efficient.

The existing system follows manual entry which makes the process slow and causes other problems such as inconsistency and ambiguity on operations. In order to avoid the problems of traditional placement system, automated web-based placement managed system is proposed. Here the student database in the college with regard to placement is managed efficiently. It intends to help fast access procedures in placement related activities and ensures to maintain the details of the student. Students are able to upload their personal and educational information through this portal. The key feature of this project is that it is a one-time registration enabled. The companies can select their students according to their eligibility criteria for jobs via the campus interview. The placement cell can view the student resumes and sort the students based on the eligibility criteria. The web portal facilitates to filter the students as per the company requirement. The details of the placed students will be provided by the administrator. Our project provides the ability to

easily maintaining the details of the students. The list of candidates eligible for the company can be found easily and the eligible students can also be notified.

1.1 Objectives of the study

In order to avoid above existing placement problem a system is designed for online Placement, so that Placement activities becomes more interactive, automated and effective.

The objectives of the proposed system are as follows:

- Reduce the paperwork and create a database of the student.
- Save time and workload for TPC.
- Easy to access.
- Avoid fake Entry.
- Only Eligible students get chance.
- Improve accuracy in the result.
- User-friendly interface.

2. RELATED WORK

Inamdar S.Y. [1] has proposed that it has become a need for each and every student, but for that, they need to travel worldwide in searching for jobs. As the earlier system was totally done manually by maintaining records, we had proposed online training and placement system for simplicity of these whole hectic procedures. It is very difficult to maintain coordination between student and companies and it is also time-consuming. For better Services in placement, it is vital to use our proposed system in colleges. To prepare the students, to make them ready for industry employment, this system is used and also provides Training and Employment opportunities for students. The advantages of this proposed system. It has company modules in which the company directly connected to the students. It also has an SMS integration page which gives instant messaging to notify students as most of don't go through emails.

Rupali Komatwar [2] formulated a placement Support System which is an online application. With proper login provided, this application can be accessed outside as well as throughout the organization. To manage the student's information with regards to placements, this system can be used as an application by the Training and Placement officers of the college. It is a computer-based system which improves the system of whatever information, TPO has to send the students and her or he can inform online. It is more accurate than the use of pen and paperwork.

Anjali V [3] proposed a Web-Based Placement Management System. The main benefit of this project is that one-time registration is enabled. It consumes less paperwork and it takes less time. This project is developed with PHP and MySQL. The placement cell allows the companies to view the student's resumes in a selective manner. The placement cell calls the companies to select their students for a job via the campus interview. In this project the main modules are:

- (a) **Student Module:** This is an academic record about an academic career with facilities to modify record and viewing changed the record. The Students Views the company details and verifies particular company details and provide valid details for registration.
- (b) **Company Module:** Companies have to log in themselves and they register their profile they can view the student's details as well as maintain company profile and details.
- (c) **Admin Module:** Admin is a placement officer who has to log in themselves and can view the students and company details and sending mail to the student.

K. Anand [4] provides a better way to make the placement process, less complex and effective for staff and students.it provides the user-friendly application in which students easily gets notifications .it also provides the information interface to message the students and staff .students would be able to easily access the application. MySQL database and Linux server are used in this application .the database will be connected to the application using PHP. It has three modules admin, staff and students. Students can view their profile and request changes to it by sending feedback.

3. PROPOSED SYSTEM

The design stage of the system involves careful planning and evaluation. The existing system is studied and its constrictions on implementation of the proposed system are taken into consideration.

The System consists of 4 modules as follows:

- (a) **Administrator Module:** He/she is the person and had a main role in management. He is authorized to view all information about student, company, all placed student details. He can view, delete student and company from history.
- (b) **Student module:** In this module, the student can register and login into the system and update/views their resume and interview status. Student can view call latter.
- (c) **Placement Officer Module:** In this module, the Placement Officer can log in into system and view student and company profile. And Placement Officer can add company details, view the eligible student and send call letter of the company via mail to the student.
- (d) **Company Module:** In this module company register and login to the system and they can view company profile and eligible student. Update the student interview status.

3.1 Data Flow Diagram

Data Flow Diagram (DFD) is a simple graphical depiction used to represent a system. The representation is given in terms of the input data to the system, various processing carried out on these data and the output data that is generated by the system. DFD represents the flow of data through a system. The DFD is also called a bubble chart. DFD is an initial step which is used to formulate an overview of the system which can later be elaborated. DFDs is also be used by data processing visualization.

3.1.1 Admin Data Flow Diagram

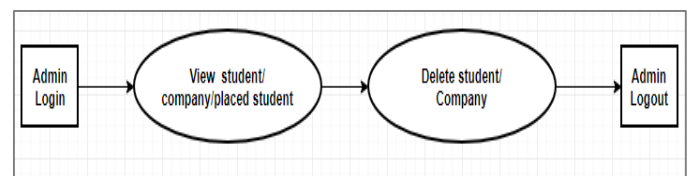


Fig. 1: Admin Data Flow Diagram

3.1.2 Student DFD

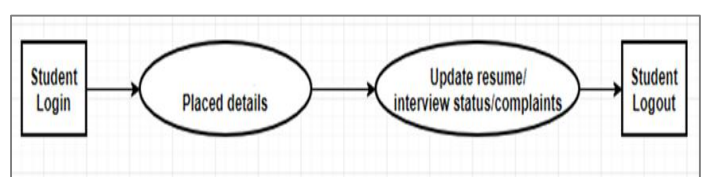


Fig. 2: Student Data Flow Diagram

3.1.3 Placement Officer DFD

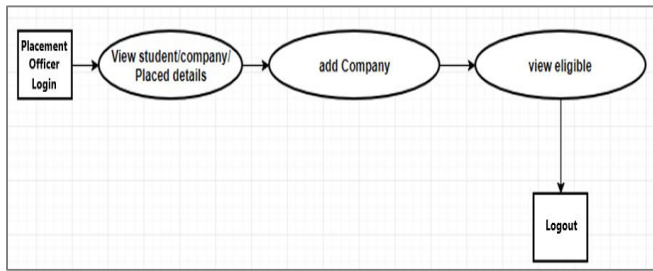


Fig. 3: Placement Officer Data Flow Diagram

3.1.4 Company DFD

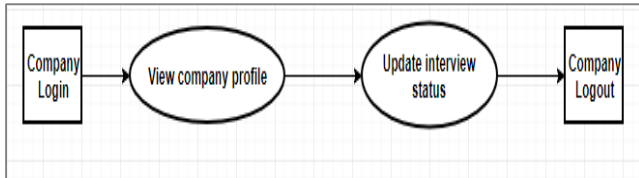


Fig. 4: Company Data Flow Diagram

4. ALGORITHM FLOWCHART

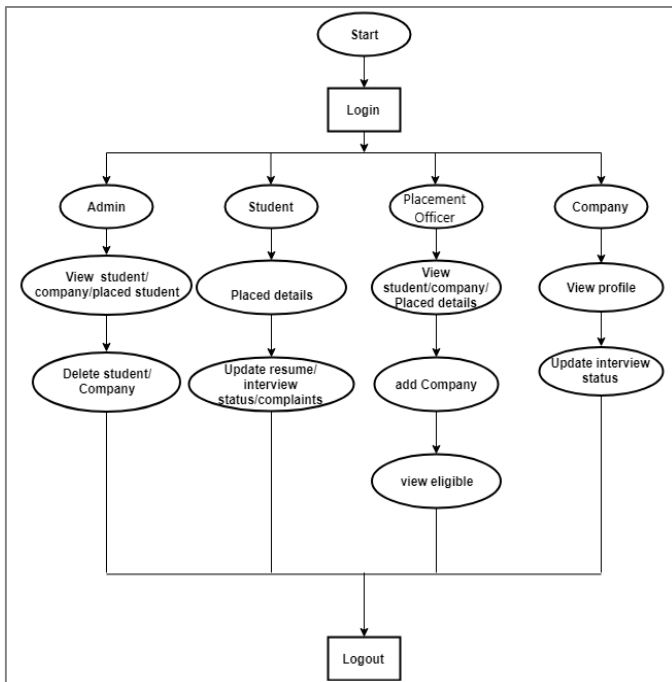


Fig. 5: Flowchart

5. RESULT AND DISCUSSION

5.1 Screenshots

(a) Homepage



Fig. 6: Homepage

(b) Login page

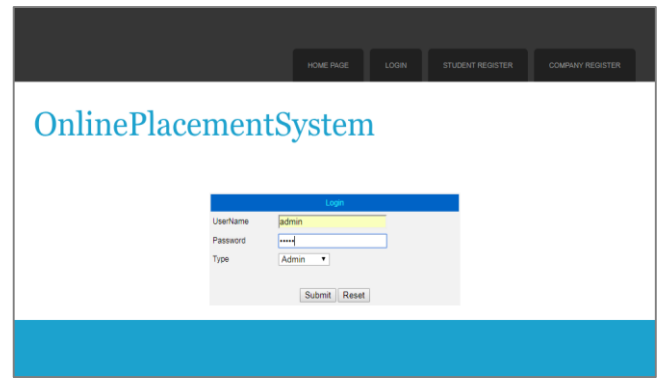


Fig. 7: Login page

(c) Sending email to eligible students

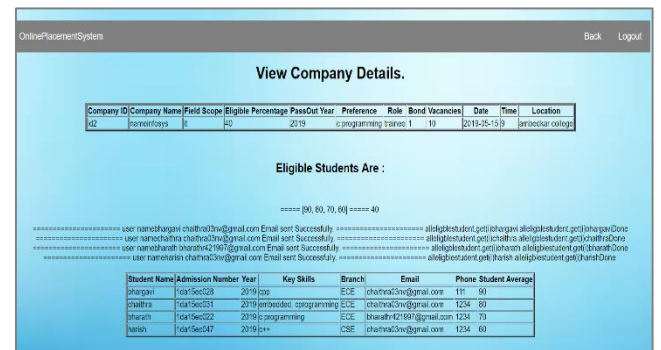


Fig. 8: Sending email to eligible students

6. ADVANTAGES

- The students are updated regarding all the placement activities through this portal.
- The admin can view details of all students
- This system can shortlist students according to the company's eligibility criteria instead of doing manually.
- The online registration option is provided for the students.
- This system saves time and efforts.

7. CONCLUSION

The problem definition of this project has been completed successfully by automating the placement process with the help of a web-based portal by maintaining the student database in an efficient manner. The portal facilitates to register students and company. The authorized individuals can successfully login to the system. Through the portal, admin can check the eligible students' list those according to criteria given by the Company and notify them instantly and update the information anytime successfully. This portal is user-friendly. With the help of this portal, most of the TPO's time and effort is saved. Campus Placement Process Automation Portal which is developed in JSP technology is handy and user-friendly with various features.

8. FUTURE ENHANCEMENT

- The web portal can be modified with a better approach and more graphics.
- The back-up procedure can be incorporated for the database
- Message notifications to both students and the company.
- Incorporating security measures to avoid hacking.

9. REFERENCES

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- [3] Web-Based Placement Management System Anjali.V # 1, Jeyalakshmi.PR*2, Anubala.R#3, Sri Mathura devi.G#4, Ranjini.V#5 # Computer Science Department, Saranathan College of Engineering, Venkateswara Nagar, Panjappur, Trichy-12.
- [4] Anjali.V Android Application for Training and Placement Cell Authors K.Anand 1 *, Rethesh D2, J. Hemalatha3, S. Karishma4, R. Logeswari5 1,2Assistant Professors / CSE, Saveetha Engineering College, Anna University Chennai.