

PLACEMENT PORTAL

DR.H.D.PHANEENDRA¹, SHETTY HARSHIT ARUN², RAM PRASAD AGARWAL³, RASHMI NARAYAN⁴, ABHILASHA S⁵

¹Professor and HoD , Department of Computer Science and Engineering, The National Institute of Engineering

²BE Students , Department of Computer Science and Engineering, The National Institute of Engineering

Abstract - Placement activities take place in an institution on a regular basis , due to this the students have to be informed about the companies attending the campus at regular basis There is also a regular need to maintain a student data for sending the student data to the companies according to their requirements . Due to this there is a need to have a online platform through which the students can register for their details and also register for the companies rather than depending on any physical material .The Placement Portal uses the DBaaS for storing the data permanently

Key Words: MYSQL, DBaaS, Node.js, Cloud Computing, Git

1. INTRODUCTION

Placement activities takes place every day in every college where various reputed companies visit campus to recruit students that fits perfect to their offered profile. During placements there is frequent need for maintaining the list of the students which is done by the placement coordinators and needs to be done regularly and there is no other medium where the data can be stored and so there is a great need for the change in the existing system. There can also be seen that there are many errors that have been taking place during the maintenance of the data. These wrong data would also lead to lot of confusions not only in the placement office but also lead to the bad impression of the college in the company. But this task also leads to a lot of extra work. The project is Placement Portal management system for conducting and monitoring the recreation of existing scenario. It is a web application written for all kind of operating systems capable of running a web browser. Our software is easy to use for all kind of people, even people with little or no knowledge of computer operations. It features a familiar and well thought-out, an attractive user interface, combined with strong searching Insertion and reporting capabilities.

This portal provides transparent view of how placement activities are conducting in the collage. It gives the detail description of overall placement performance. It will automate the entire system it would cover all the aspects of the collection of the student details for the company and also maintaining them for the long run. This management of data can be used maintaining the statistics of placement activities of current academic year and previous years which will give a complete insight to students about the recruitment process of their college and dream company.

2. SYSTEM REQUIREMENTS

2.1 Hardware Requirements

- Web Server: The Server for handling the request of the user. This server will keep on running for 24*7 for listening to user request, will handle each request asynchronously and hence decrease the response time by large amount. The hardware of dual-core processor with 2 gigabytes of RAM and a network card will enough for the server to set up.
- Database Server: The server for storing the data of the user. This server will keep on running for 24*7 for listening to the Node.js server request. The hardware of dual-core processor with 2 gigabytes of RAM, 80 gigabytes of storage and a network card will enough for the server to set up.

2.2 Software Requirements

Node.js: Node.js is an open-source, cross-platform JavaScript run-time environment for executing JavaScript code server-side. Node.js enables JavaScript to be used for server-side scripting, and runs scripts server-side to produce dynamic web page content before the page is sent to the user's web browser.

MySQL: MySQL is the world's second most widely used open-source relational database management system (RDBMS). SQL stands for Structured Query Language. SQL commands are used inorder to communicate with the database and perform the other opeartions

Git: Git is a control system for tracking changes in computer files and coordinating the changes on those files among multiple people working as a team.

3. LITERATURE SURVEY

[1]. Yunchuan Sun, Junsheng Zhang, Yongping Xiong, and Guangyu Zhu proposed An Innovative Approach to Data Security and Privacy in Cloud Computing in the year 2012: While there are many server-side frameworks available, node.js is unique in its ability to help solve well-recognized challenges in teaching web development. Using node.js allows for the consolidation of language throughout the application stack. The platform supports a smooth learning curve by allowing students to build knowledge gradually

through the use of modular, open source components. This paper details the advantages of using node.js in an undergraduate web development course and examines its value to the CS curriculum as a whole.

[2]. Shweta Dinesh Bijwe, P. L. Ramteke proposed An Innovative Approach to Database in Cloud Computing - Database-as-a Service (DBaaS) with its Challenges:

Cloud computing offers software developers and vendors the promise of efficient resource utilization and on-demand scalability with minimal capital investment. For consumers, it offers infrastructure-free computing, where users access their —desktop and data from any location—work, home, on the road, or from within other organizations. For enterprise businesses, cloud computing offers the potential to outsource computing infrastructure to focus on core competencies with higher efficiencies which is much beneficial to them.

4. SYSTEM ANALYSIS

4.1 Existing System

In our existing system, all the transactions are done manually. Manual process takes more time, more paper work and also wastage of time and money and not sure about usefulness of effort. Process starts from collecting student details through google forms and asking each student to register for each company they are interested in by filling same details again and again. This leads to wastage of time, money and lot of redundant data is collected which extremely painful to manage and sometimes impossible. There is no formal way of doing the above work as the information circulated to students is through WhatsApp group. Update and alternation require discussion and timing.

The existing system has following drawbacks:

- Lot of man power wasted. By doing same work for every company placement coordinators are wasting their time.
- Process is partially informal. As the information is passed to the students by WhatsApp and it is informal for sending the information to students as many students may not have apps

4.2 Proposed System

A web portal that would completely digitalize the way of doing work. Each student has their details stored in the database. Henceforth would collect all details of each student at once.

The portal would provide the login for each student and they would get access to all the information about the placements and the results of the placed students. This will remove redundancy of data collected.

Students directly get information about the arrival of companies and their requirement. They only need to respond by clicking on checkbox whether they are interested in it or not. The response will be collected by the placement office and it is send to the desired companies.

The web portal provides the overall placement analysis of the college. It provides a clear picture of placement activities going around in the campus.

5. SYSTEM DESIGN

5.1 System Architecture

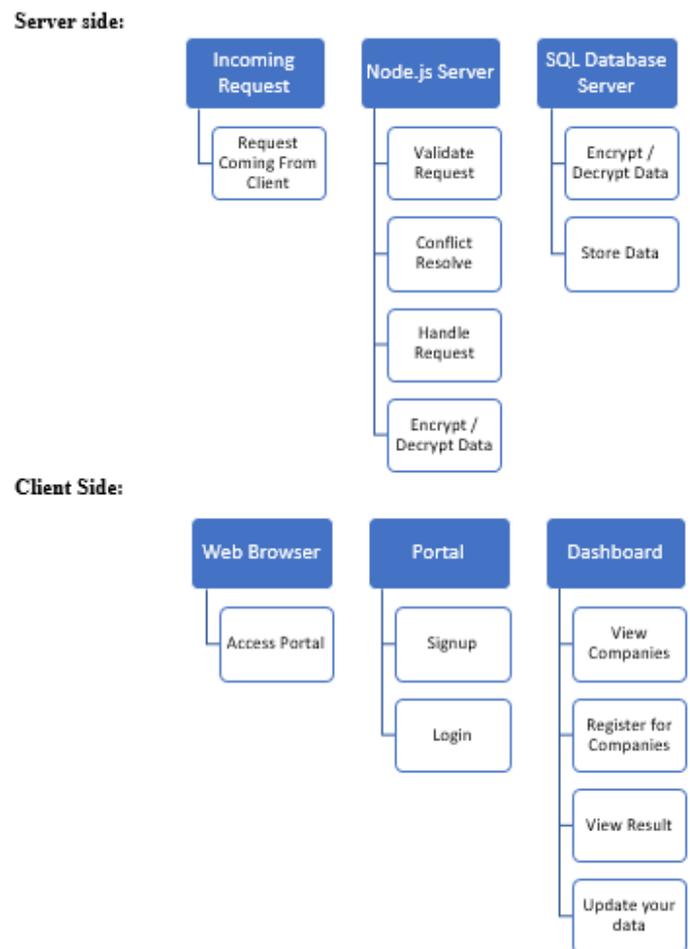


Fig-1: System architecture

In Fig. 1 System Architecture is divided into two parts Server side and Client side which includes Incoming request, Node.js server and SQL Database Server and Server side includes Web Browser, Portal and Dashboard

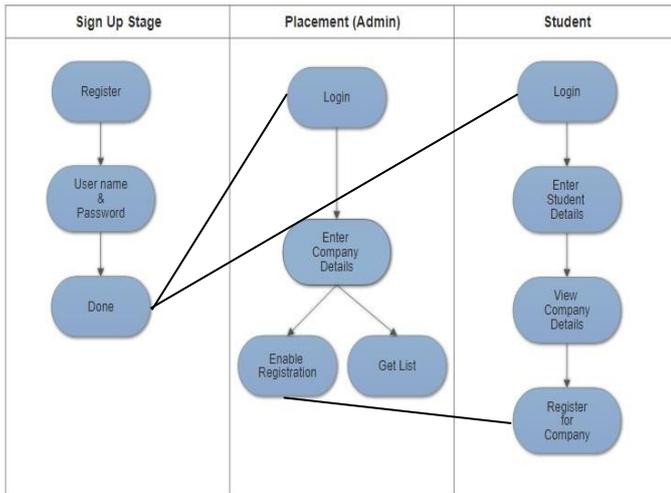


Fig -2: Swimlane Diagram

In Fig. 2 Swimlane Diagram that provides the stages through which the information is stored

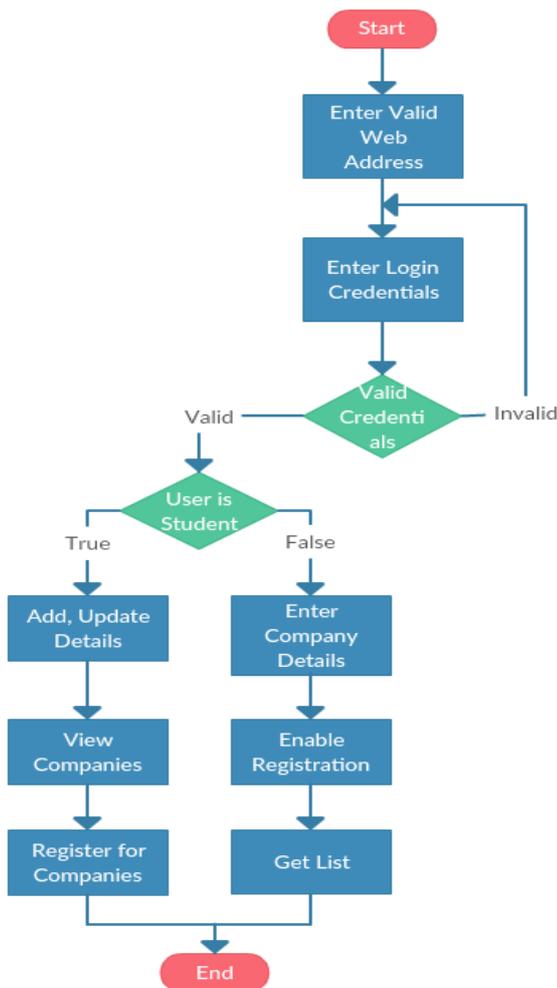


Fig -3: Flowchart

In Fig. 3 Flowchart of the entire operation is shown

6. CONCLUSION

The Placement Portal would be very useful for the placements hence by decreasing the amount of workload of the Placement co-ordinators, who have to store all the information again and again for each company. This portal also aims to bring more advancements like checking the student ability for a particular and how much he/she has to prepare to reach that company's expectations based on the requirements that are mentioned by the company

REFERENCES

- [1] <http://www.w3schools.com> for HTML, CSS, JavaScript, Bootstrap tutorials.
- [2] <http://tutorials.webflow.com/> to create the front end using web flow.
- [3] Fundamentals of database system- Ramez Elmasri, Shamkant B. Navathe. —6th edition.
- [4] <http://stackoverflow.com/> to solve common problems.
- [5] <https://www.youtube.com/watch?v=pU9Q6oiQNd0&list=PLLBjn2CeA9qUMgykUHs3uKmiDo507VYSs> for node.js video.