E-Learning for Job Aspirants

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***Abstract*—As the main reason for students not performing well in placement process is due to lack of practice and confidence. So, the purpose of web-based e-learning system is to help the students prepare wisely and conveniently for the placement process. This system helps the students to prepare for various rounds that are held in the placement process, by providing interactive Graphical User Interface. It provides the students with a number of facilities to prepare for Aptitude, Group Discussion, Technical and Personal Interview. It will help the students to study and prepare for the placements anytime and anywhere, which will save a lot of time.**

Keywords—Placement, aptitude, mock test, interview blogs, group discussion.

I. INTRODUCTION

There are many engineers who are unemployed because of not getting placed through college campus. Also, the new Annual Employability Survey 2019 by Aspiring Mind has revealed a shocking news that 80% of engineers are not fit for any job as they lack skills that are required by the companies. The top 10 IT companies just take 6% of the engineering graduates. The IT Stalwart says that 94% of engineering graduate are not fit for hiring and hence most of them land up without a job. The main reason behind this is not having proper skills like communication, solving critical problems and logical thinking.

To overcome these problems, we provide an e-learning platform for the students to prepare for different placement rounds. The system aims to provide the students with training of Aptitude Tests, Group Discussion and Interview including both Technical Interview and Personal Interview. The system helps the students to improve themselves in the areas they are lagging. It will help the students to study and prepare for the placements anytime and anywhere. As the students can prepare for the different rounds at anywhere and anytime, it will save a lot of their time. In this system, the students can register and login to their accounts and prepare for the different rounds by using the various facilities provided.

The scope of our project is to help and train the students to prepare for the various placement rounds. Students can prepare for different rounds like Aptitude tests, Group Discussion and Technical and Personal Interviews. The students can join live Group Discussions and solve online Mock Tests to prepare wisely for the actual Group Discussions and Online Aptitude Tests. Group Discussions will be based on topics that are most likely to come and also points will be awarded to the students based on their performance in the discussion. Mock Tests will cover different sections like Aptitude, Logical Reasoning and Verbal Communication.

The E-Learning for Job Aspirants System is aimed to help the students prepare wisely and conveniently for the different placement process rounds.

- Easy to use: The online E-Learning System is convenient and easy to use.
- This system provides interactive User Interface.
- It trains the student to prepare for different placement rounds anytime and anywhere.
- Most likely to come and repeated aptitude questions are made available to the students.
- Online Group Discussion and live Mock Tests are provided.
- Students and Alumni can post their interview experience which will guide other students to prepare for their interviews.

Student's time is saved as they can prepare from home in a convenient way.

II. EXISTING SYSTEMS

The existing systems contain student's data that is with the Data Management. It also contains aptitude training facilities and mock tests that are conducted live. Various aptitude questions are provided to the students to prepare for placement rounds, which helps the students to grab various placement opportunities.

The features of the previous working model and their drawback is described by the existing system. Existing system does all process manually. Placement officers register the information of students. If any changes, modifications or updates are required in the student profile, it has to be done manually. This is very tedious and time consuming, lack of security of data, took more man power, consumes a large volume of paper and space. Process becomes difficult when the number of user's increase. [1] In this system, it gives a very efficient way for placement of students and is referred to as the Online Training and Placement System. Here the student does their registration process in a simple manner the placement officer can easily get the information of students. Eligible students have easy access. Students get notifications. Graphical representation is provided. College records of current and

previous students can be maintained. Alumni meets can be conducted through it.

All activities regarding the placement are scheduled by the placement officer. Criteria for eligible students is notified by the companies. Students, staff of TNP, Placement Officer get the information required. Registered students are eligible for this system. [2] Data Mining Techniques can also be used for storage of the data of students and manage the Training and Placement which is referred from the Generating Placement Intelligence in Higher Education with Use of Data Mining. It says that an institution of higher education and research that grants academic degrees in variety of subjects and also provides both under-graduate education and post-graduate education.

Various activities can be performed like conducting classes, conducting placement, enrolling students, conducting special workshops related to different subjects, etc. Activities related to placement cell, student database, placement and can be performed using tree shaped structure and Decision tree algorithm that represent decision sets. [3] A system that is user- friendly can be formed, that can automate activities of placement cell and also provide opportunities for the students to use collective intelligence referred from the Interactive Training and Placement System. It enables the resumes to communicate about the various job openings on the student community, controlling the relationship associated for inviting them for activities like placements, track the progress of the selection process, creating the placement queue and provide communication with different users. OP system gives the module like Administrator: TnP/ TPO Staff , Student : Alumni / Current Student, Company and Forum. Features like Integrated Toolkit for reaching out to track companies. Every Job posting is managed and handled individually.

Managing Job Postings, Authenticating Company Profiles and activating students profiles, providing notifications, gives the list of shortlisted student with resume to company HR Manager, creating list of students for HR Manager of the Company, student profile management, Set preferences for student eligibility criteria for the placement, Time & Role Based Secured Access to users and also export data of shortlisted students.

[4] A conventional training and placement management system can be implemented as an application for the TPOs in the college to manage the student information in regards of placement and also provide assistance to the students using the portal where students can post their query to the TPO and other coordinators. Providing Student login helping them to update their personal and educational information in a form which will be added to the database and upload a resume and providing them with preparation materials for placements.

The Company Tab: an additional feature of the Portal which will provide assistance to the companies for shortlisting the students as per their eligibility criteria. It reduces the manual work and consumes less paperwork to reduce the time. Front end of the system is developed with the help of CSS, Bootstrap, and HTML. Backend of this system will be managed with the help of Java, Servlets and JSP's. MYSQL database is used for the database management of this project. [5] The manual work makes the process slow and other problems such as inconsistency and ambiguity on operations. In order to avoid this, a web-based placement management system is proposed.

In this the student's information in the college with regard to placement is managed efficiently referred from Web Based Placement Management System. It intends to help in fast access procedures for the placement related activities and ensures to maintain and manage the details of the student in a proper way. After logging in students should be able to upload their personal and all their educational information required. One-time registration is enabled in this project which is a key feature. The placement cell calls the companies to select their students for jobs via the campus recruitment process. The companies can view the student resumes in selective manner, this facility is provided by the placement cell. They can filter the student's profile as per their requirement. The administrator will provide the job details of the placed students. Important role is played by the Administrator in this project. Facilities like getting the requested list of candidates for the company who would like to recruit the students based on the given query and maintaining the details of the students is also provided.

III. IMPLEMENTATION

This system consists of four main modules they are *Aptitude preparation, Interview Blogs, Mock Tests and Group Discussion.*

A. Aptitude Preparation

This module provides aptitude questions of three types they are *Quantitative Reasoning, Logical Reasoning and Verbal Reasoning.* Its helps to increase score in aptitude exam. In each type, different sub-types are available for students to solve different types of questions. Also, admin can add more questions to increase variety and difficulty level.

B. Interview Blogs

This module provides a blog where students or alumni can share their interview experience and their blogs can be liked or unliked by others. A comment section is also provided for each blog where any one can ask query. The blogs contain main information like name, name of company, profile, date on which interview is given and experience details.

C. Mock Tests

This module provides different tests sections dynamically. Every test contains 30 minutes timer to complete the test. After test completion marks will be calculated and pie chart of weak and strong section is displayed.

D. Group Discussion

This module provide students to discuss over a topic. A topic is selected dynamically by a system and after given

time discussion starts. Marks will be evaluated on the basis of syntax and sementics. Winner of group discussion is annouced after evaluation.

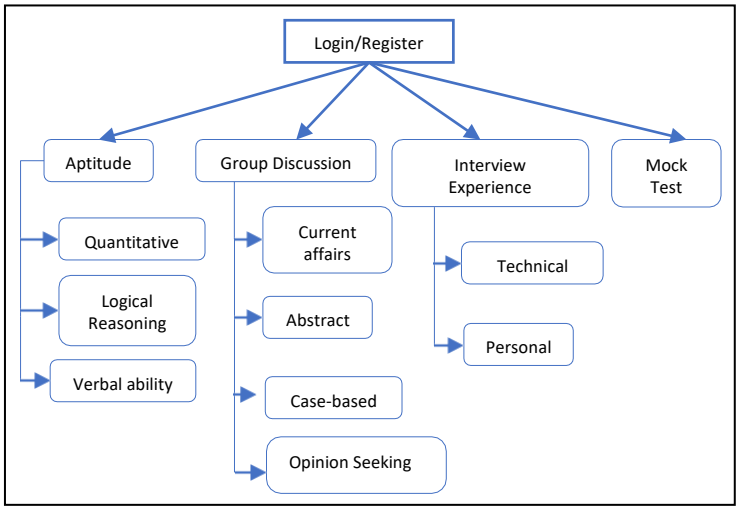

Fig. 3.1. Modules Diagram

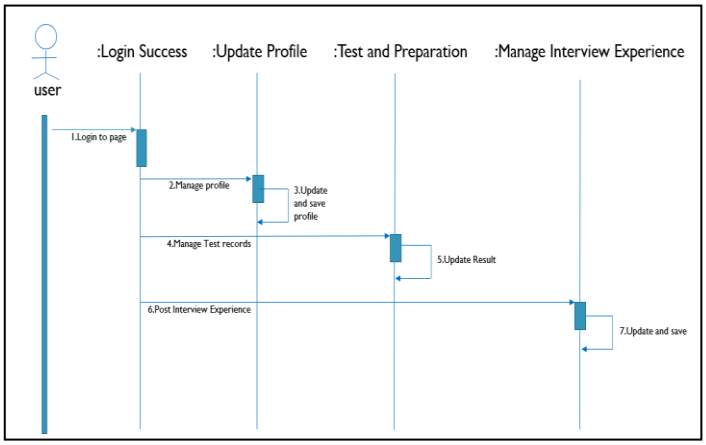

Fig. 3.2. Sequence Diagram

IV. METHODOLOGY

As the main reason for students not performing well in placement process is due to lack of practice and confidence. So, the purpose of this system is to help the students prepare wisely and conveniently for the placement process. This system helps the students to prepare for various rounds that are held in the placement process, by providing interactive Graphical User Interface. We have used HTML, CSS, JavaScript, Jquery, PHP and MySQL to program this system for its better working.

Front end: Front end of this web based E-leraning system created using HTML, CSS (Cascading Style Sheets), Bootstrap JavaScript and Jquery. User interface and design is created using CSS and Bootstrap. Javascript and Jquery is used for validation of form page.

Back end: Back end of this system is created using PHP and MySQL. PHP : Hypertext Preprocessor allows the software developers to create a dynamically generated web pages, in XML, HTML or other document types, as per client request. PHP is open source software.

MySql is a database that is widely used for accessing, querying, managing and updating data in databases.

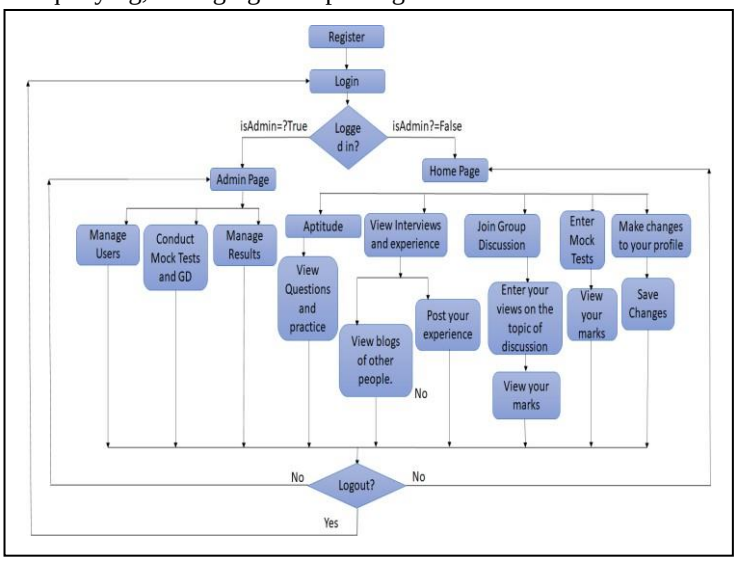

Fig. 4.1. Work Flow Diagram

V. DISCUSSION

In the existing system, large amount of work goes in paper by humans which is error prone, it also takes time for making any changes in the system. Every module is integrated in this system. The system gets online registration of all the user, deactivation and activation of the user, personalization to

the user, resources to be provided online group discussion, live mock test and other facility like aptitude training. Blog feature

is provided where the users can post their past interview experience.

The admin can manage the user information and authorize it. The admin can conduct live group discussions by announcing a topic. He can also manage the aptitude training module. As per the project work, we were able to design and integrate the different modules of the system. Consistency and Security is maintained well in this system.

We were able to use our ideas to build this system. By implementing this system, we learned how to plan and design a system. We learnt factors that are used during the project which gave us a broader understanding while carrying out constructive work for project development.

VI. RESULT

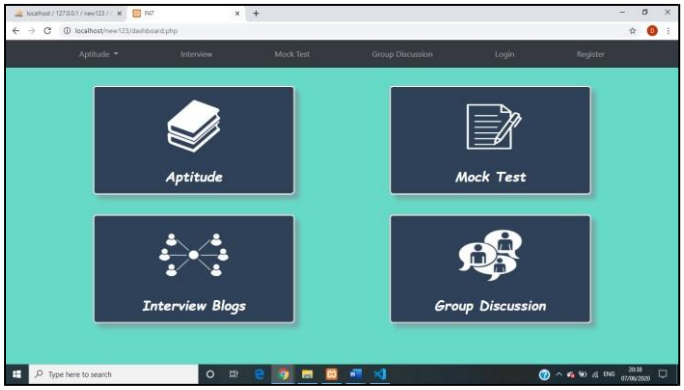

Fig. 6.1. The Dashboard

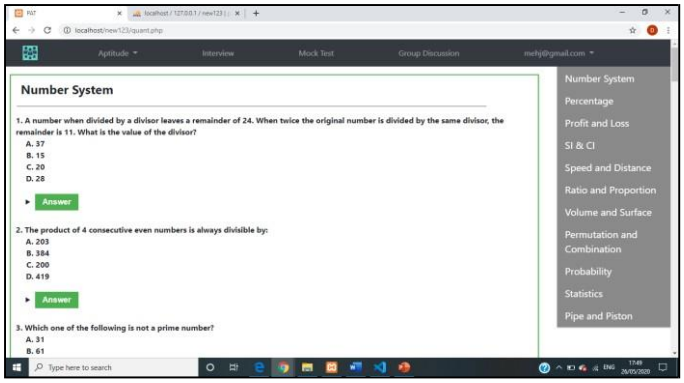

Fig. 6.2. Aptitude Module

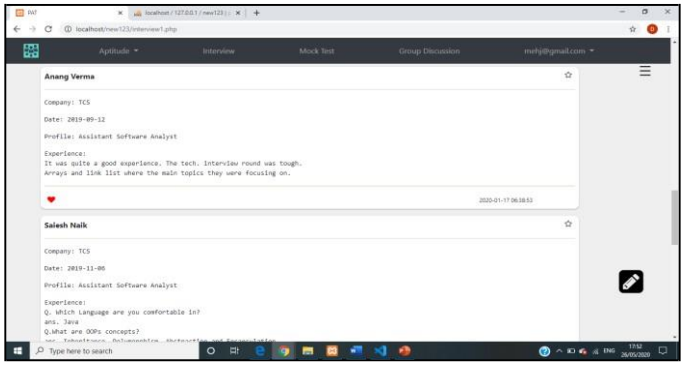

Fig. 6.3. Interview Module

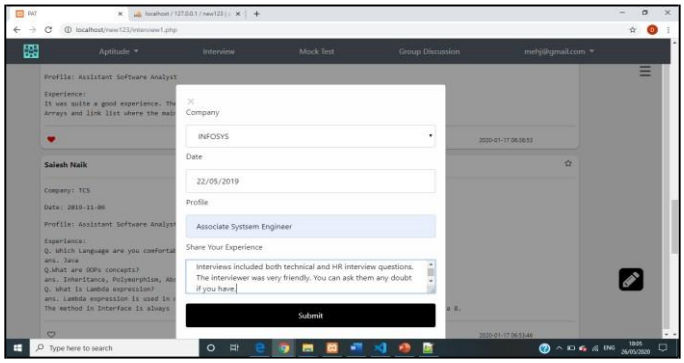

Fig. 6.4. Add new Interview Blog

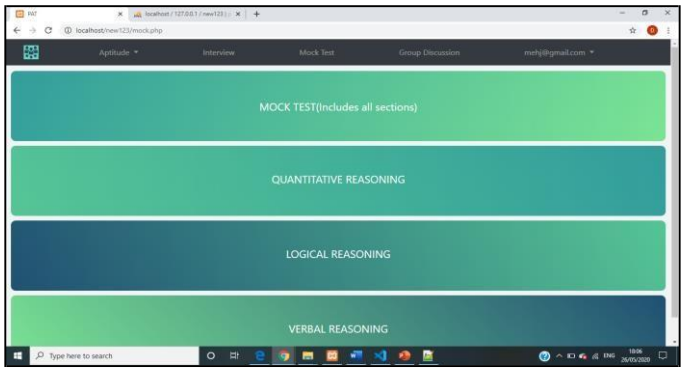

Fig. 6.5. Mock Test

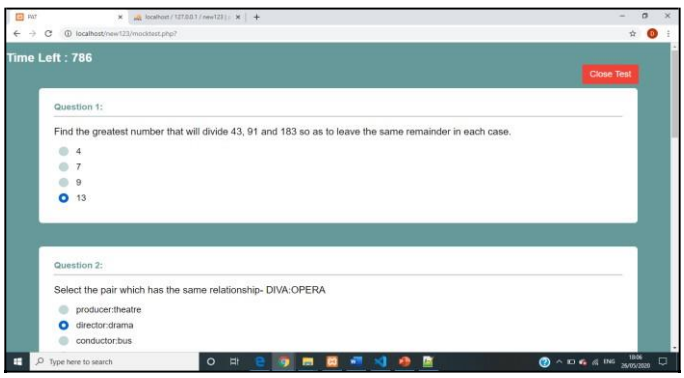

Fig. 6.6. Mock Test

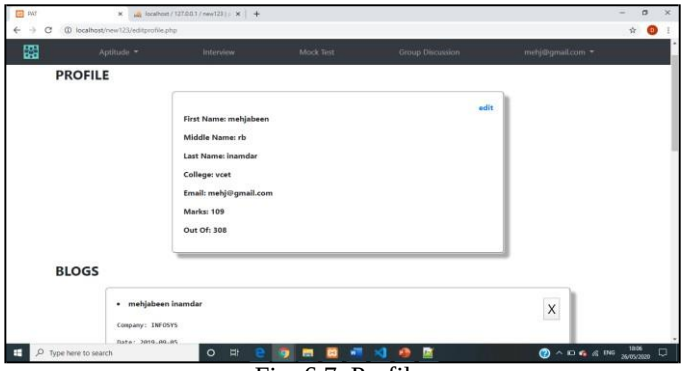

Fig. 6.7. Profile

VII. CONCLUSION

As a lot of time goes into paper work, which is tedious, the proposed system helps in over-coming this problem. The system provides the students with various facilities that help them. It also provides Collaborative Learning experience. Hence, we conclude that the job aspirants can make use of this system for improving their skills and increase their chances of getting placed in their dream company.

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