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DESIGNING OF WEB PORTAL FOR TRAINING AND PLACEMENT CELL

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Abstract - *Training and placement cell has a very important role in College. Designing of web portal for training and placement cell is aimed at providing the help to automate the manual activity of the placement cell. This Application can store all the information of the student like their personal information, all the information related to their academics, skills, resume etc. Students will be able login, view and apply for the drives in which their interested. The T&P officer of the college will have access to all the information related to students which is required for them. Only Respective Students can edit their details. The T&P officer can also filter the number of students eligible for a specific Company based on the company criteria and can also notify them related to placement activities. This application can be a convenient tool for the T&P officer of the college to manage the information of the students with respect to placement process.*

***Key Words*: Placement Prediction, Admin module, Student module, automate, mock interview.**

1.INTRODUCTION

One of the factors by which a college is evaluates its placement history. The training and placement cell of the institute is responsible for administrating the entire work cognate to placement of the students. But all this work is done manually such as student registration, notifying students with respect to placement, their selection, etc. This hand operated work undergo to error which causes problem in the placement process of the college. So It became very difficult for the administration to update any data or the data sometimes get lost. The hand operated work makes the placement process slow and other predicament such as erraticism and uncertainty on process. To evade this Designing of web portal for training and placement cell is proposed, where the student information in the institute with respect to placement is managed conveniently. It contemplates to avail expeditious in expeditious access procedures in placement cognate activities and ascertains to maintain the details of the student. Students should be able to upload their personal and inculcate information. The key feature of this application is that it is has one-time registration. To hire the students for jobs, The T&P cell of the college calls the companies via the campus interview. The placement cell sanctions the companies to view the student resumes in selective manner. The student's profile can be filter as per requisite. The job details of the placed students will be provided by the admin or the TPO. The TPO plays a paramount role in this application. The proposed application provides the features of maintaining the details of the students and gets the required list of students for the company who would relish recruiting the students predicated on given query.[1][2][3]

1.1. BACKGROUND

In the existing System all the works has been done manually by the Training and placement cell. The staffs had to register the details of students which is required for the placement, then to find out the students are eligible for the company based on their criteria. If students wants to update the data, it was done hand operated. This is dreary and time consuming, it took more man puissance, and consumes sizably voluminous amount of space and paper. This process becomes difficult when number of students increases. .[1][3][6]

1.2. PROJECT SCOPE

Designing of web portal for Training and Placement Cell is aimed at developing an online application to automate the activities of training and placement cell of the college. This project aims at following points:
1. Ease to collect and manage student's data.
2. To increase efficiency of placement activities.
3. Reduce the manual and paper work.
4. Manage overall placement activities easily.[3]

1.3. PROPOSED SYSTEM

Designing of web portal for Training and Placement Cell is aimed at developing an online application to automate the activities of training and placement cell of the college and reduce the paper work. The aim of the project is to develop a user-friendly portal that allows T&P staffs to manage student's information easily without the need of any manual activity, also students would be able to update and manage their profile. We also aim at developing a model that can help the students to get a prediction of their placement. The project also thrives at developing a real time environment which enable students to get a feel of how actual interview looks like using the mock interview module.[1][2]

3. METHODOLOGY

The project is divided into several modules like admin, student, prediction module. The completion and integration of these modules with each other will lead to completion of the application. For the development of this application a monolithic architecture is used. The application is implemented using node.js, express.js, MongoDB, Machine Learning, Django in the tech stack.[5]

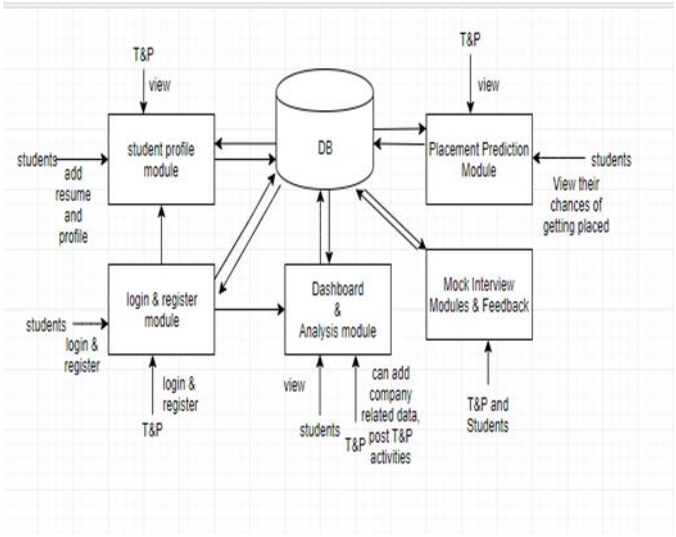

Fig 3.1: Block Diagram

1. **Admin Module**: This module is the backbone of the entire application. We have used node.js to implement the backend and EJS templating engine for the front end. Also NOSQL is used to support the database. Using this module admin would be able to do the following:

- Add drives.
- Update drive details.
- Delete any drive.
- Get list of eligible students.
- Send emails to the students.
- Add study materials for the students.

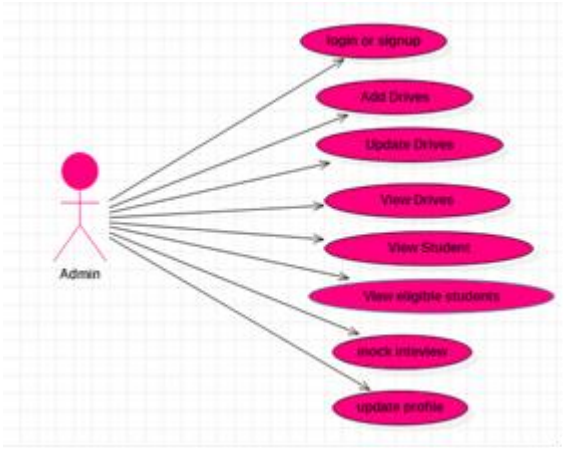

Fig 3.2: Use Case Diagram of Admin Module

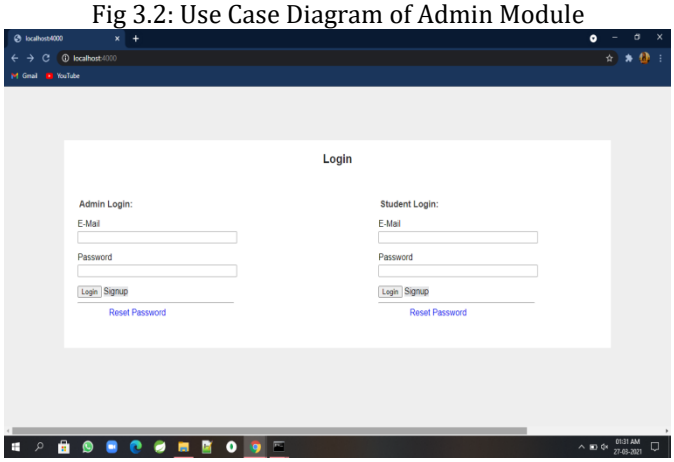

Fig 3.3: Login

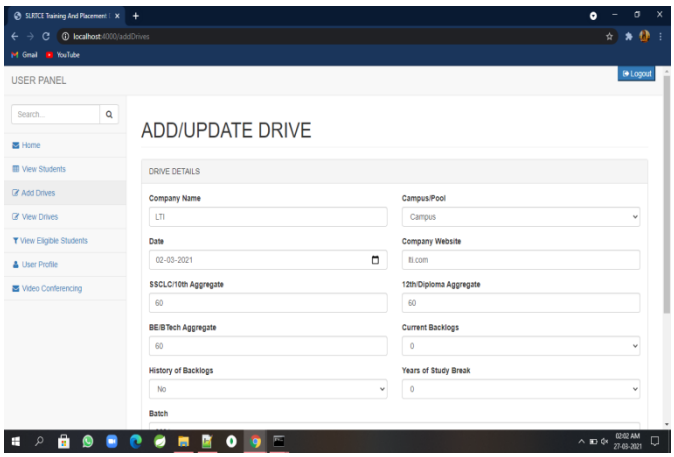

Fig 3.4: Add/Update drive page of admin module

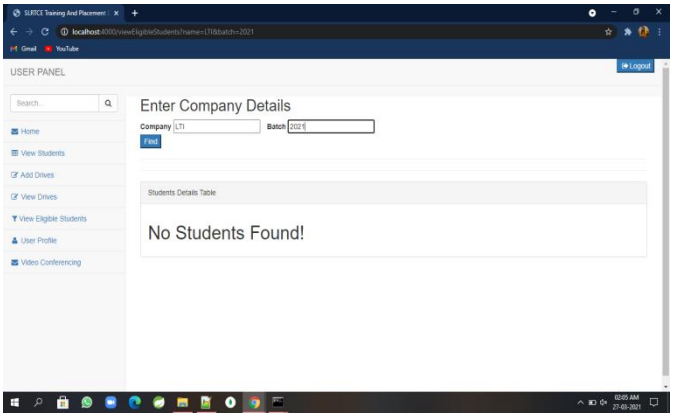

Fig 3.5: Searching no. of student applied for a Specific company

2. **Student Module**: We have used node.js to for the backend and EJS templating engine for the front end. Also a NOSQL database i.e. MongoDB is used support the database. Using this module students would be able to do the following:

- Apply for the drive.
- Add or update their profiles.
- Can access mock interview module.
- Can access study materials.
- Can access placement prediction module.

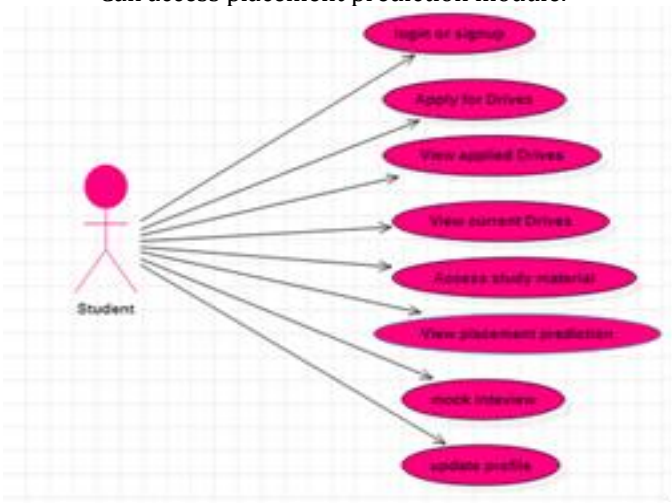

Fig 3.6: Use Case Diagram Student Module

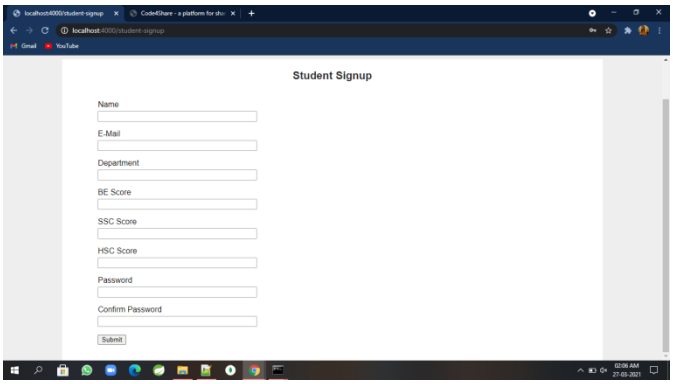

Fig 3.7: Student Signup page

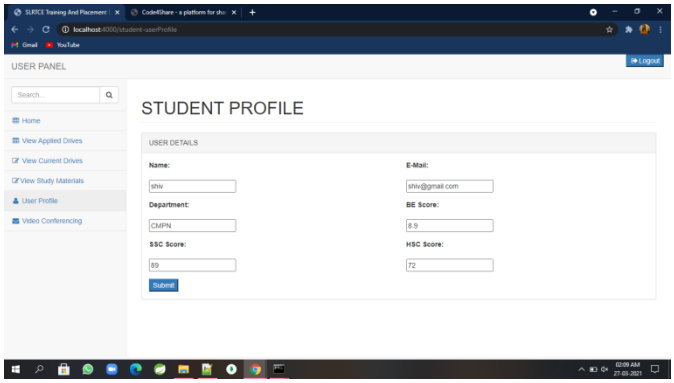

Fig 3.8: Student Profile Page

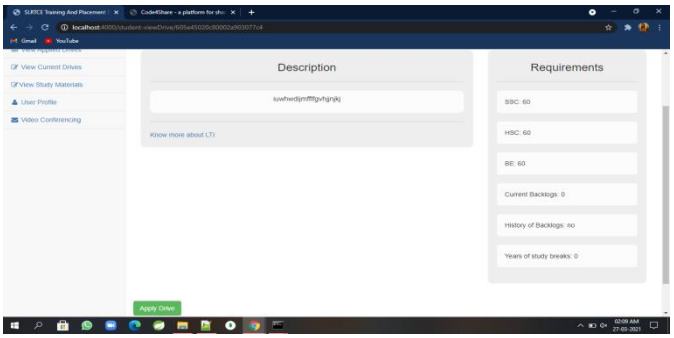

Fig 3.9: Student Module Drive Details Page

3. **Mock interview module**: Using this module, mock interviews can be conducted for the students. We have used node.js for backend and EJS templating engine for the front end. Also a NOSQL database. SocktIO and operational transformation is used to implement this module.

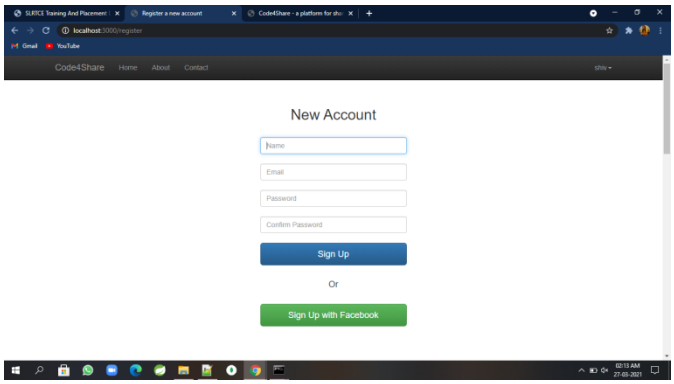

Fig 3.10: Mock interview module Signup/login page

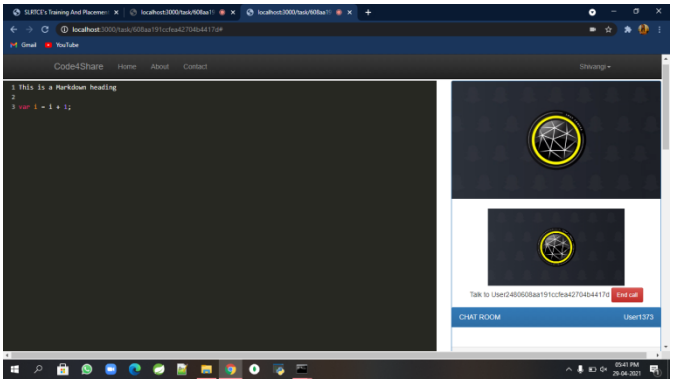

Fig 3.11: Mock interview screen

4. **Placement prediction module**: This module will help the student to get to know that they can get placement based on their current skills or not. Also it will help the students for better preparation for their placements. The aim of this module is to predict the chances of students for getting placement in the IT Company and also help the candidates for profiling before the recruitment Starts. This module involves the use of machine learning model and we have used k- nearest neighbor algorithm. Also we have used Django Framework.

4. CONCLUSIONS

In the existing system mostly, work was done manually and also it is error prone system, takes time if we want to change the information in the system. The biggest issue was when we are required to make the changes to the huge amount of data and managing them. The proper notification was not given to the student regarding the new activities arises related to company. The proposed system gives the automation in all the process like updating of details related to students or company, for obtaining the list of eligible students based on company criteria, registration for the drives and of the drives. This proposed system provides all the solution to the existing system problem.

This project is aimed at developing web application training and placement cell for automating the manual task of TNP Cell of the college to eliminate the errors which used to arises because of manual work. The problem definition of this project is successfully completed by reducing the manual activity by using web application for training and placement cell where all the data related to the student and company database is managed in an efficient manner. Using the portal TPO would be able to manage student's data efficiently, manage placement activities easily. The system also provides features which will help students to prepare well for the placements. This portal will be user-friendly, with the help of which the efforts and time of the Training and placement officers will be saved.

5. ACKNOWLEDGEMENT

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6. REFERENCES

[1] Godawari Chouhan, Monika Devi, Prof. Teshu Gaurav Singh," Review on Training & Placement Cell System", International Journal of Latest Technology in Engineering, Management & Applied Science, 2018, Volume 7, Issue 3, pp 205-208.

[2] Mythali M, Aishwarya R, Shenbagam P, Sandhya C," E-Placement Management", International Journal of Pure and Applied Mathematics, 2018, Volume 119, Issue 10, pp 1823-1834.

[3] Prof. Rupali Komatwar, Swapnil Kamble, Mihir Khedekar, Kishor Walzade," Placement Support System", International Journal of Advanced Research in Computer and Communication Engineering, 2016, Volume 5, Issue 1, pp 316-319.

[4] Swati Choudhary, Monica Landge, Shital Salunke, Swarupata Sutar, Kirti Mhamunkar, "Advanced Training and web portal", International Journal of Technical Research and Applications, 2016, Volume 4, Issue 2, pp 75-77.

[5] J. Swathi, K. Priya Tharsini, S. Suganya Janani, Asso. Prof. Dr. G. Vinoth Chakkaravarthy," Training and Placement Cell Application", International Research Journal of Engineering and Technology, 2018, Volume 5, Issue 03, pp 2422-2424.

[6] Mr.Nilesh Rathod, Dr.Seema Shah, Prof. Kavita Shirsat, "An Interactive Online Training and Placement System", International Journal of Advanced Research in Computer Science and Software Engineering, 2013, Volume 3, Issue 12, pp 505-511