

## Training & Placement Web Portal

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**Abstract** - Training and Placement Cell is an important part of any educational institute in which the utmost of the work till now is being done in a homemade way. The end of this design is the robotization of Training and Placement cells. This is a web operation which will help druggies as well as the administration authority to carry out every exertion in this department. The system is an operation that can be entered throughout the association with proper login running. This system can be used as an operation for the Training and placement officers of the council to manage the druggie's information regarding placement. The operation provides the installation of maintaining the details of the druggies. This will ease the work & make all the placement related work presto.

**Key Words:** Admin, Candidates, training, placement, assistant, job.

### 1. INTRODUCTION

The technology is increasing rapidly. Technology is overtaking human tasks. Moreover, humans also need automation, so that the burden of manual tasks decreases. Today the world has become competitive. Everyone wants to have a good job. The job phase starts with placement and training. Everyone wants to perform well in placements so that they are not left behind in this competitive world.

To evade this Training and Placement Web portal is proposed, where the student information in the institute with respect to placement is managed conveniently. The proposed system is a web-based application and maintains a centralized repository of all the necessary information. To avoid errors within the data of the students it is better to automate the process where the students can update the data by themselves on a regular basis which can be done remotely without going to the placement cell. As this system is a web-based application that can be accessed throughout the institute with proper login provided. This portal is divided into two parts, which are Admin and Candidates.

The portal allows candidates to give aptitude tests on mathematical ability, logical reasoning, and verbal ability and an AI assistant will take mock interviews of the candidate. The mock interview of the candidate will be conducted on the general questions. The certification page on the portal will allow candidates to apply for the course. The certification course will be divided into technical and non-technical and subdivided into free and paid courses. Candidates need to choose the course and click on the link where they will be redirected to the official course website where they can apply.

The portal will only give suggestions of the course and will not provide the course.

### 2. PROJECT SCOPE

- 1) Admin's can post internship details along with placement opportunities.
- 2) AI Assistant will take mock interviews of the candidate's so that they can prepare well for the interview.
- 3) The portal will allow candidates to give an aptitude test by providing them the link of the test..
- 4) The portal will also display the achievements of the students along with the details of the students who got placed through the announcement module.
- 5) The portal will also give suggestions about technical and non-technical certifications to the students so that they can skill-up themselves.
- 6) The portal will help the Training and Placement Cell Officer to keep the record of students' details which includes CGPA, resume, skills, etc.
- 7) Details of the events that happen in the college will also be displayed on this portal.

### 3. OBJECTIVES

The portal is meant to give more ease to the users so that they can retrieve information quickly. The portal increases efficiency as all the placement related activities would be available at one place. The primary objective of this system was to reduce manual training processes and to provide an effective way to test and train the candidates. It also maintains all the details of each student. Students can have all the updates related to their upcoming placement.

#### 4.METHODOLOGY

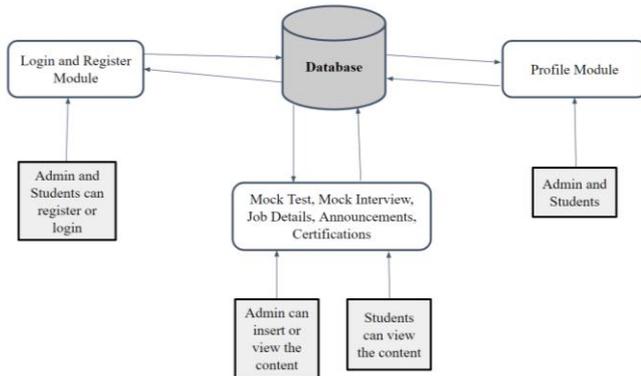


Fig. 1 Block Diagram

##### 1) For Admin

The admin needs to sign up to the website using a college email id. After signing up, the admin will be redirected to the login page where after entering the correct credentials the admin will be redirected to the landing page.

In Mock Test, the admin needs to enter details of the test along with the test link and after adding the details it will get stored into the database and get displayed to the user through another web page.

In the Certification module, admin needs to enter details of the course along with the course link and as soon as admin clicks the add button the details will be sent to the database from where it can be accessed by another web page and display the details on the screen. Here the web portal does not provide the course but it acts as a mediator between users and the course providing website.

In the Announcement Module, the admin can add the achievements of the users who got placed also with that admin can add the details of the events happening in the institute.

In the Job and Internship Module, the admin will post all the description about the job along with the apply link which will then be sent to the database from where it will be accessed by another webpage.

##### 2) For Candidates

The candidates need to sign up to the website using a college email id. After signing up, the candidates will be redirected to the login page where after entering the correct credentials the user will be redirected to the landing page.

From here the candidates can choose a particular module which he/she wants to access and can view the contents of the modules. For Mock interviews the candidates can take an interview with the help of an

AI assistant which will ask questions to the candidates through speech and later display the questions. After that the candidates can record the response by clicking on the response button which will be recognized by the system and will do Speech Diarization on the voice to detect the number of speakers. If the number of speakers is more than one then it will warn the user. Speech diarization is done with the help of the K-means algorithm. Later the voice is analyzed to give the sentiment feedback to the candidates. As the questions asked are general ones there will be no proper answers.

For other modules i.e., mock tests, certifications, announcements and Jobs/Internships here the candidates can access the details and can also apply to courses and Jobs/Internships opportunities through apply link along with that they can view announcements made by the admin.

#### A. System Analysis Model

##### a) Use Case Diagram

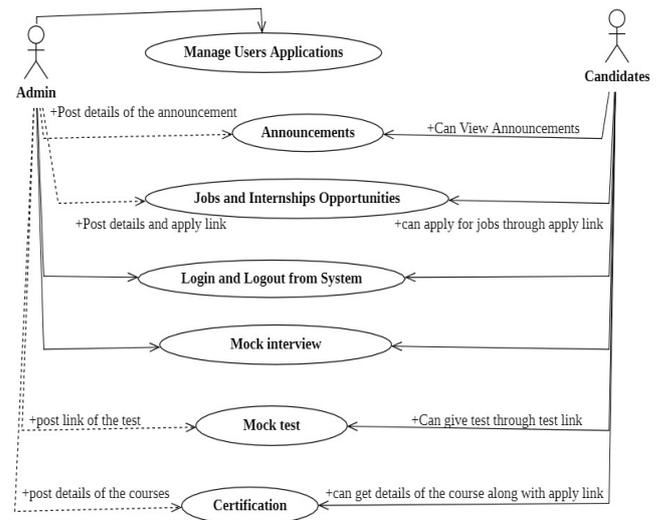


Fig. 2 Use Case Diagram

Use Case Diagram is a graphic definition of the relations among the elements of the Training and Placement Web Portal. It represents the methodology used in system analysis to identify, clarify, and organize system conditions of Training and Placement Web Portal. The main actors of Training and Placement Web Portal in this Use Case Diagram are Admin and Candidates, who perform the different types of use cases similar as Training, Manage Placement, Manage Job, Manage Jobseeker and Full Training and Placement Management System Operations.

b) Activity Diagram

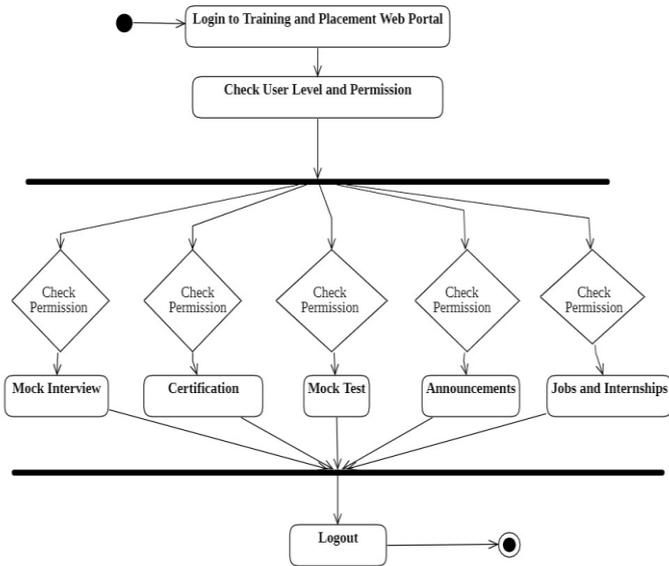


Fig. 3 Activity Diagram

3) Mock Test Module

One should be able to appear for the test through google forms on their interested subject. Blank test quiz should be available to the user. After completion of the test and clicking on the submission button, the forms should display the result to the candidate.

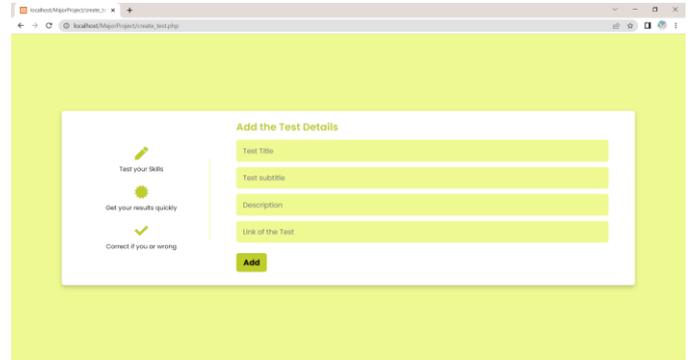


Fig. 5 Adding Test details



Fig. 6 Viewing Test details

5. RESULT

The results that have been obtained in each module are:

1) Login/Signup Module

The candidates and admin after signing up using a college email id should be redirected to the login page where they need to login. After entering the correct credentials, they should be redirected to the landing page of the portal.

2) Mock Interview Module

The AI assistant should ask general questions to the candidate and the candidate needs to answer it through speech. The system should recognize the speech of the candidate with the help of speech recognition. If an assistant hears more than one voice it should give an alert to the candidate. After this, the AI Assistant should evaluate the response and give feedback to the candidate.

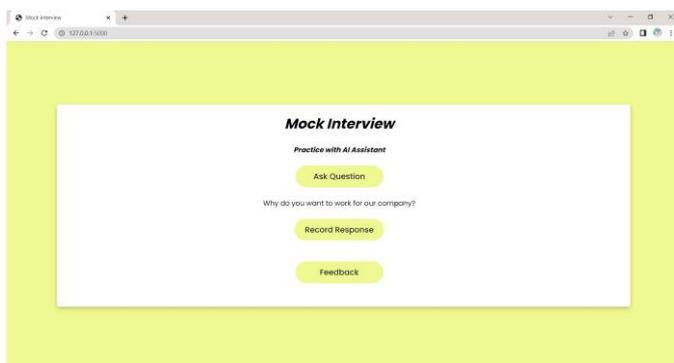


Fig. 4 Mock Interview Module

4) Certification Page Module

It will have the categories of the certification course like technical and non-technical along with the sub categories which will include the free and paid courses. The details of the courses should be displayed to the candidates from where they can select their interested course and can apply for the same through the course link.

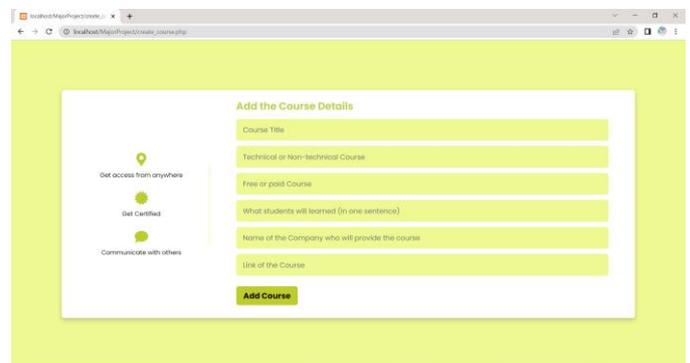


Fig. 7 Adding Course details



Fig. 8 Viewing Course details

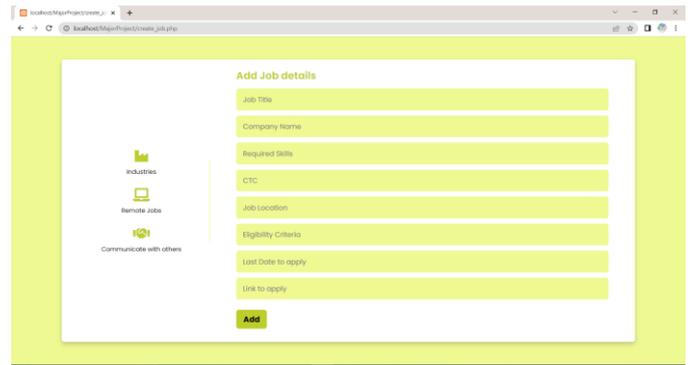


Fig. 11 Adding Jobs/ Internships details

### 5) Announcement Page Module

The candidates will be able to view the details of the events happening in the college along with all the achievements of the students. All these details will be posted by the admin which will get stored into a database from where it will get displayed on another web page.

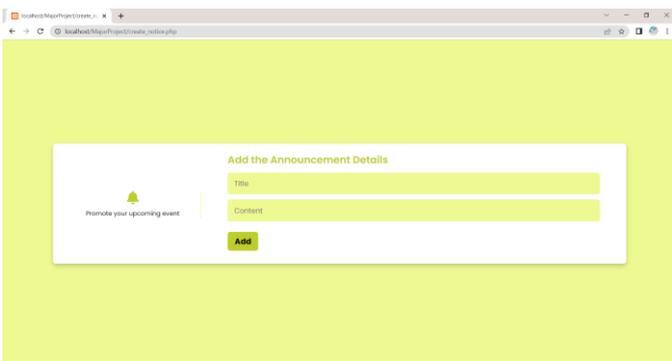


Fig. 9 Adding Announcement details

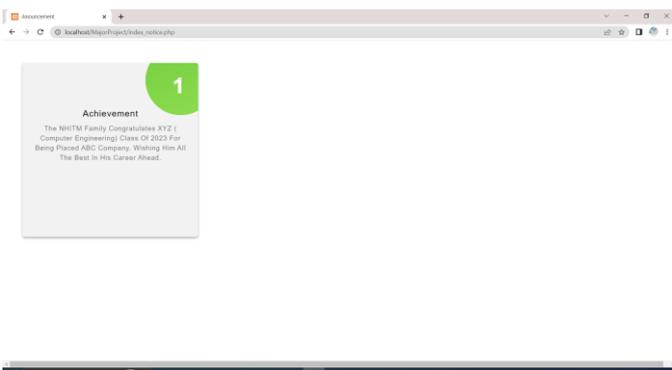


Fig. 10 Viewing Announcement details

### 6) Job and Internships Opportunities:

The admin will post all the details of the job openings available along with an application link. The details posted by the admin should be able to be viewed by the candidates and be able to apply for the job through the link provided.

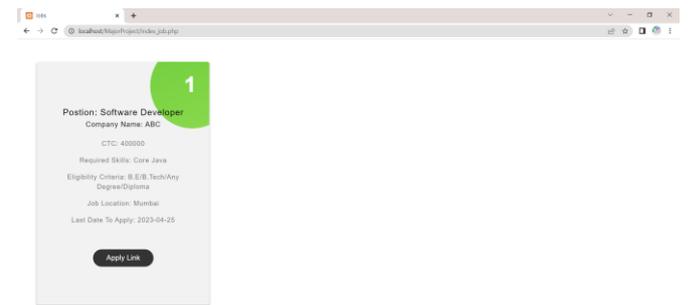


Fig. 12 Viewing Jobs/ Internships details

## 6. CONCLUSIONS

The training and placement web portal creates an environment that reduces manual work and saves time. There are specific modules for specific areas. For example, a student details system, a company module for a company details system, and another module for a laboratory/TPO details system. The following technologies such as HTML, Python, PHP and CSS were used in the development of this TPO system.

College internship managers face many challenges when it comes to managing student information. This is difficult because all information must be managed at a very granular level. The system provides more accurate input. Accurate data are available. The increasing need for convenience and storing all data in one place has always been a difficult process for everyone. With the launch of this web-based training and internship portal, we promise to make life a little easier for students and administrators by proposing alternatives to the systems currently in use. The easy access and functionality of this portal makes it easy to manage the assignment process during placement. With the growing demand for digitization in all areas of daily life, we can soon expect great demand for such portals and the accompanying convenience in everyone's life.

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