

# DEVELOPMENT OF TRAINING & PLACEMENT MODULE FOR STUDENTS DATABASE MANAGEMENT PORTAL (TPSDMP)

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**Abstract:** The paper is aimed at developing Training & Placement module and chat bot system for College Management Portal (TPSDMP). This system focuses on automation of placement cell activities. Recent researchers had developed training and placement applications which is generally intranet based and also chat interface in placement module is yet to be in limitation. To overcome such limitations, an automated intranet based application is developed which aims at providing information within an organization as well as throughout the world. Various features such as chat bot system, statistical data representation, alert notification and student online exam conduction is addressed. This system (TPSDMP) also provides TPO with features such as viewing student details, updation of student placement status. It also provides graphical representation of student placement details, according to department as well.

**Keywords:** Training and placement module, chat bot system, statistical analysis, chip.

## I. INTRODUCTION

The project is aimed at developing online web portal for students as well as Training and Placement Officer (TPO) of college. The main aim of this system (TPSDMP) is to develop an internet based application which will serve the purpose of training and placement cell and at the same time to keep up-to-date information of college activities. This system (TPSDMP) makes the work of every user easier by simplifying their work especially of Training and Placement Officer (TPO) which was done manually before. Therefore, it helps Training and Placement Officer (TPO) to search and update information and decrease redundant information and repeated information whenever required.

The system provides online chat interface called as user chat bot where users communicate as and when required. Student is provided with login credentials prior to which registration needs to be done. Each user has the same login page consisting of user id and password field for gaining access to the functionalities of the system. In this study, alert notification feature is introduced where Training and Placement Officer (TPO) notify students on their provided credentials for any upcoming notice. Training and Placement Officer (TPO) can view students placement status and can update their status as well. Statistical analysis of student placement status can be done by Training and Placement Officer (TPO) to provide the basis for decision-making and management. This system (TPSDMP) also conducts an online exam to check the capability of students for placement and other activities.

In this application (TPSDMP), front-end is developed with HTML pages using Bootstrap framework for client side validation with Java Script where as all business logics is in asp.net language residing in the middle layer. Third layer of database interacts with first and second layer, which is MySql database.

Main objectives of building this application (TPSDMP) are as follows:

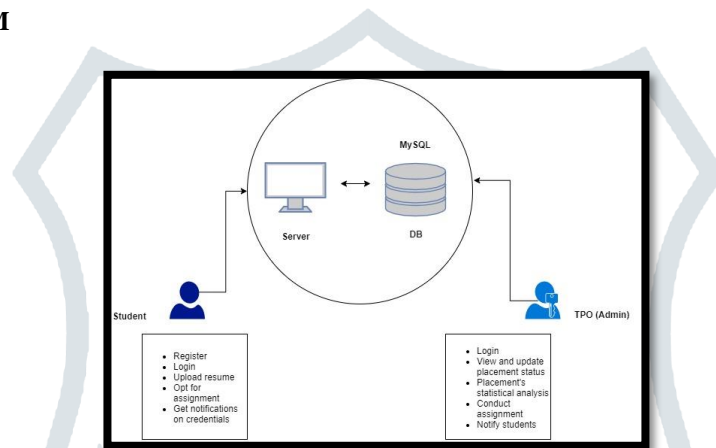
- Manage student record to enhance management level.
- Graphical analysis for decision purpose.
- Enhance communication between users using chat bot system
- Manage student's placement related activities.

## II. EXISTING SYSTEM

Mostly all placement cell applications are intranet based web applications. Due to this, Training and Placement Officer (TPO) is finding it difficult to access student data and manage other related activities from elsewhere. Problems faced in existing systems are:

- Manual student registration and analyzing who wants to opt for placement.
- Students may need to contact personally to placement cell for any queries.
- Analysis of placement status of complete college as well as for each department is time consuming.
- Students records were stored mostly in excel sheet where sorting issues raised.
- Placement related notices are getting circulated in classrooms or by specifically informing students through mail is time consuming.
- Collecting CV's of each student and managing bulk of CV's is very painful task.
- It takes too much time for managing, updating and analyzing each student.

## III. PROPOSED SYSTEM



**Figure 1: Block diagram**

Following diagram depicts the flow of the system. The detailing of each user's functionalities is as follows:

### A. Training and Placement Officer (TPO):

In this system (TPSDMP) the admin is the TPO who has an authority to add student and provide their valid id and password. TPO of the college is provided with login and password to log onto the portal. After login in, TPO can be able to access student personal details such as student name, student address, year of admission to college, student college id, branch, email\_id, contact number, etc. Also TPO can be able to access student educational details such as X board percentage, XII board percentage/ Diploma percentage, semester percentage or pointer, etc. TPO can also be able to upload resume format of college and can update student placement status as well as get graphical view of student placement status as depicted in figure 1. TPO can also be able to notify students for any update on their provided credentials.

### B. Student

Student module deals with information of student. Student who will be added by the administrator to the system successfully can only able to access the system with their valid user name and password provided by the administrator. First student should login into the system by entering their provided credentials. As shown in Figure 2 student can able to register and also upload their resume. After completing task successfully by click on the Logout, students can successfully logout from the system.

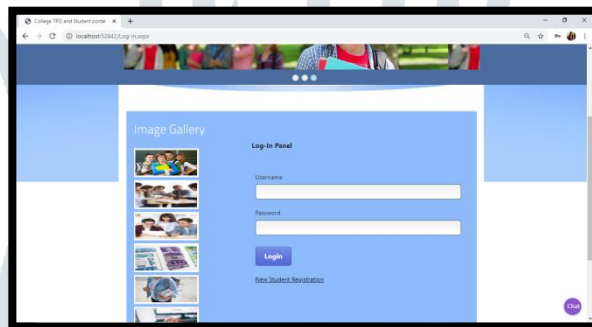
## IV. RESULTS

The home page of Training and placement cell is shown in figure 2. User can chat with Emilie who responds to user's queries. Home page contains various tabs such as TPO login, Student login, placement status, etc. Here a provision is also given for students to download resume format.



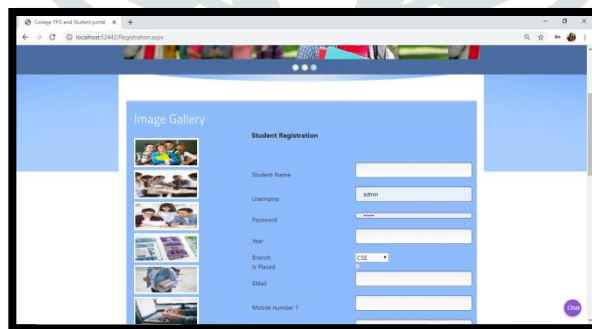
**Figure 2: Home page**

Student login page is shown in figure 3. Student can login through his/her provided credentials. In this page a new registration form link is provided.



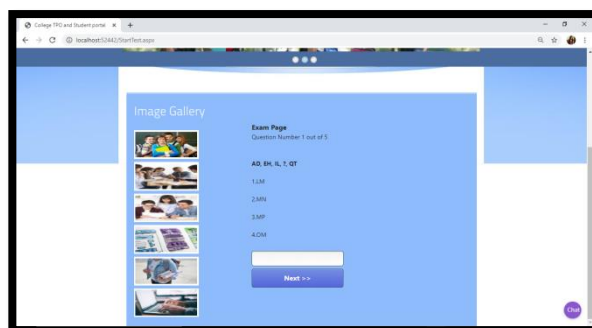
**Figure 3: Student login page**

Student registration form is shown in figure 4, where students fill the required details. Details include personal, educational as well as placement details. Students upload their resumes at the time of registration itself.



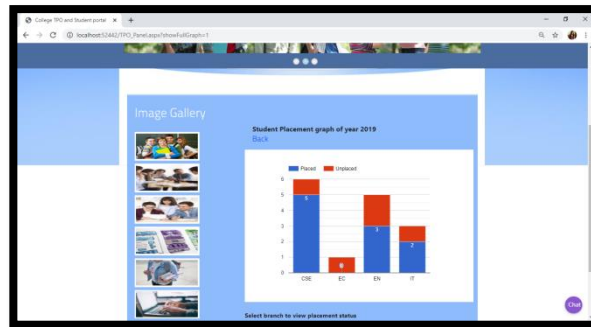
**Figure 4: Student registration form**

As shown in figure 5, student can opt for online exam which is conducted by Training and Placement Officer (TPO).



**Figure 5: Online exam for students**

On TPO login, TPO can access various functionalities of the system. TPO can statistically view the placement statuses as shown in figure 6.

**Figure 6: Graphical view of placement status**

As shown in below figure 7, TPO can view student details whether they are placed or unplaced and at the same time, TPO can update student's placement status. And also TPO can download student's resume.

**Figure 7: Update placement status**

## V. FUTURE WORK FOR PROPOSED SYSTEM

1. The future work for this application (TPSDMP) is whenever required to make frame for saving faces in the database which is used for face recognition, it can be done using a hardware chip using VHDL hardware description language called as Very High-Speed Integrated Circuit (VHSIC). This will manage complexity of the system by simulating data early and fast [4]. We can make efficient code for selective placement database management module for student by Verilog and VHDL with embedded systems which reduces storage space and increase productivity of the system. By doing this, data can be saved in text as well as in view format.
2. Also by using Machine Learning Python3, we can develop Placement cell management system. By using this, different features for training, college, etc can be developed and this may cause increase in efficiency by reducing human efforts.

## VI. CONCLUSION

The need for efficient online platform for managing activities of institutions is still in demand. In the existing systems, intranet based applications had been developed for Training and Placement cell management which has some limitations and also some of the work such as updating student placement system, check student capability, solving queries by personally contacting users. Our system, Training and placement module and chat bot system for College Management Portal (TPSDMP) works by overcoming such limitations and gives an automation in various process like updating, searching, analyzing, chatting by providing internet based application. And also provides the detail solution to the existing system problem.

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