
STUDENTS PROFILING FOR PLACEMENT & PROVIDENCE.

A Web Application For Students Training & Placement

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ABSTRACT

Students Profiling for Placement & Providence (SP3) is a Web application which automates activities of training and placement cell & provides opportunities to the student community to use collective intelligence to increase selection ratio and eases out process of creation of management information automatically. It focuses on the automation of the placement cell. Generating the resumes, communicating about the various job openings to the student community, managing the corporate relationship for inviting them for the placements as well other activities, creating the placement metrics, monitoring the progress of the selection process and communicating with different users. Manage Company Profiles, Manage Job Postings, Authenticate and activate the student profiles, Send Notifications to students, Create list of students as per company HR Manager Job criteria, automatically generates resume for students as per industry standards, graphically shows the information of students placed.

Keywords—TPO, TnP, Resume Generation, E-Mail, Graphs.

I. INTRODUCTION

The use of Internet and World Wide Web revolutionized the provision of information and the facility for the user to take action on the information obtained. The use of internet enables users to manage placement process. This led to a unique web based placement management system called as Students Profiling for Placement & Providence (SP3).

SP3 system is a web application that can be accessed throughout the organization and outside as well with proper login provided. This system can be used as an application for the Training and Placement Officer (TPO) of the college to manage the student information with regards to placement. Students logging should be able to upload their information containing all the details of their academics and the extra certification information or the skills set. The TPO authorities logging in may also access/search any information put up by Students.

SP3 is a web application to facilitate students in K.C. College of Engineering (K.C.C.O.E) to register, search and apply for jobs. The TPO to take effective actions on the web as follow-on from the information they have viewed. TPO provides approval of student registration and updating.

SP3 helps in maintaining the log of placements provided to the students in a college. SP3 system provides information on placement providers via e-mail and the placements they offer so that students may view and assess their opportunities. The graph is also provided indicating cut-offs and criteria's of the companies. It concludes that how many students in the college are ready and fulfil all basic requirements for sitting in a placement drive, how many students need to improve their performance and how many students will face difficulty in completing his/her degree.

Computer based information system are designed to improve existing system. Whatever the information, TPO has to pass to the student and he or she can inform online. Improve accuracy in result. It has user-friendly interface having quick authenticated access to the resumes. It provides the facility of maintaining the details of the students.

It will reduce the paper work and utilize the maximum capabilities of the setup and organization as well as it will save time and money, which are spending in making reports and collecting data. It can be accessed throughout the organization and outside as well with proper login provided. This system can be used as an application for college to manage the student information concerning placement. Also helps to see the details

of company coming for campus recruitment to see students. Before coming for campus, company can get information about eligible students along with interested students.

Our basic idea is to design an application to implement our concept. How is this actually possible, is explained with details in this paper.

II. LITERATURE SURVEY

A. Detailed Survey

As our system is about placement & providence of students the literatures and research papers were reviewed for getting more information about the problem and knowing which type of work was done by others on this topic and by which method.

Many web applications have tried to achieve this phenomenon and tried different technologies regarding web application and database handling. But it is hard to maintain security and flexibility at the same time for the web application with traditional architectures.

When we say web technologies, we have classic ASP, PHP, JSP, ROR, ASP.NET Web Forms, ASP.NET MVC and many more. Classic ASP is one of the web technology introduced by Microsoft.

Similar work has been done using JSP based on JAVA Servlet platforms. However, Biggest pain point with the classic Architecture was spaghetti code and maintainability.

B. Motivations

- Design a robust web application for placement system.
- To eliminate flaws in Existing system.
- To fasten the process of doing tasks.
- Minimize cost of resources used.
- Ubiquitous approach.

III. EXISTING SYSTEM

In an existing system, all processes at the time of placement of students are handled manually by accessing the student information from respective department, which is very slow and consuming much efforts and time. This process is so difficult when the number of users increase. All the work done at placement cell is by human intervention due to which there were more chances of errors. Many have tried to overcome this manual work by taking help of the internet.

The existing systems provided students information which are stored by the TPO officers or people in the placement cell. The company information was viewed by everyone, even the students which are not eligible or fit inside the criteria could apply for the placements. The C.V. or the resume has to be uploaded by the students or the placement cell officers.

The database is kept in the form of excel sheets or papers inside the register format in many of the systems. Some systems handle the database, logic implementation and the user interface (UI) experience inside the same code.

Flaws in current system:

- Students information is stored by the placement cell or HOD's which may not know their personal skills and abilities.
- Student has to submit their resumes which may not be compatible to the industry standards.
- No graphical representation provided regarding placements provided or done.
- Traditional use of architectures for web technologies.
- Single code handles all the processes which provides less security and flexibility.
- A slow web application due to increasing users accounts for a bad user experience.

IV. PROPOSED SYSTEM

Now as we have understood the existing system and have figured out that there are a lot of problems in it. So, what we propose is a solution to build the web application based on new and improved architectures and intelligent use of database.

In the proposed system, the student information will be given by the student. A proper login will be created for the students and the TPO cell officers as a user. C.V. will be generated automatically.

TPO cell officers will provide company information and criteria for the placement. Accordingly E-mails will be sent to all the respective students which are eligible. After placements graphs will be generated.

C. Technical approach in proposed system

As our system is based on ASP.NET we are using new and improved MVC architecture. ‘What is an MVC architecture?’

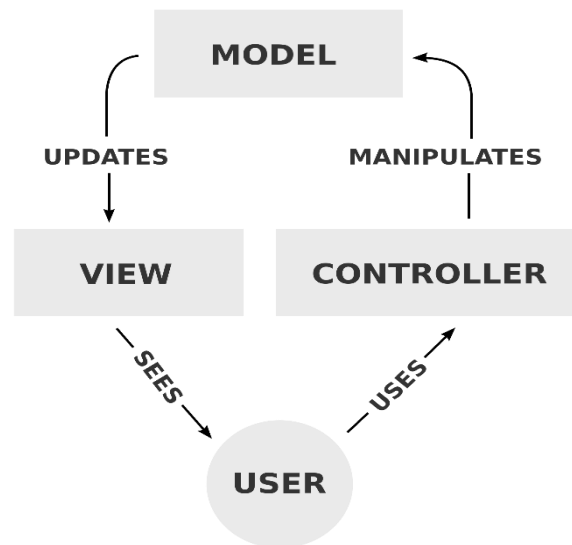
Model View Controller or MVC as it is popularly called, is a software design pattern for developing web applications. A Model View Controller pattern is made up of the following three parts:

Model - The lowest level of the pattern which is responsible for maintaining data.

View - This is responsible for displaying all or a portion of the data to the user.

Controller - Software Code that controls the interactions between the Model and View.

MVC is popular as it isolates the application logic from the user interface layer and supports separation of concerns. Here the Controller receives all requests for the application and then works with the Model to prepare any data needed by the View. The View then uses the data prepared by the Controller to generate a final presentable response. The MVC abstraction can be graphically represented as follows.



The model:

The model is responsible for managing the data of the application. It responds to the request from the view and it also responds to instructions from the controller to update itself.

The view:

A presentation of data in a particular format, triggered by a controller's decision to present the data. Basically front-end technologies for UI we are including HTML with bootstrap.

The controller:

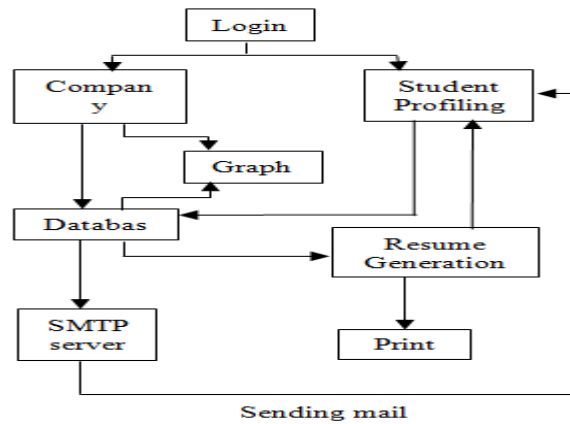
The controller is responsible for responding to user input and perform interactions on the data model objects. The controller receives the input, it validates the input and then performs the business operation that modifies the state of the data model.

D. Advantages of proposed system

- Students submit their own information so complete and personal data is collected.
- Automatic C.V. is generated according to industry standards.
- E-mails are sent to the eligible candidates.
- Graphical representations are generated from previous placements.
- Use of MVC architecture for better security and flexibility.

E. Explanation about our system

FIG 1



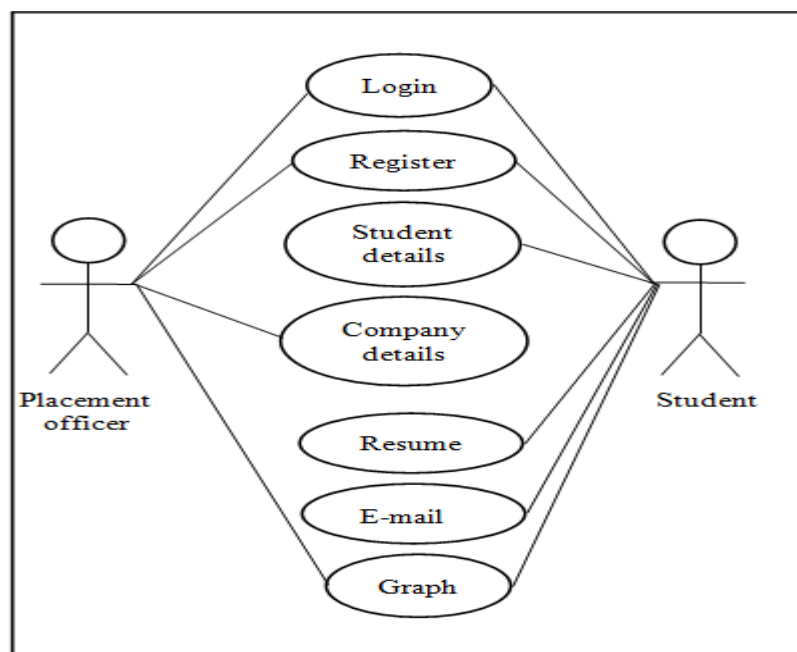
Given in fig. 1 is the block diagram of the System, showing the flow of the web application. The web application opens with the login page. According to ID and password the application identifies whether the user is student or the administrator. From the database the resume is generated and provided to student for printouts. When the students inside database meets the criteria provided by the company an e-mail is sent to the respective students with the help of SMTP server. From the database of placements the graph is generated.

In the fig. 2 the Use Case Diagram of the web application is given.

Based on number of different scenarios, we have come across the following uses of the SP3 App.

- Login
- Register
- Student details
- Company details
- Resume
- E-mail
- Graph

FIG 2



Conclusion

This research paper proposes an interactive SP3 system which is proposed after deeply analyzing the existing system and understanding the flaws in it. The described system overcomes all the flaws of the existing system and brings an era of revolutionary system which is speedy, efficient and very much adaptable. It will be definitely beneficial for the end users looking for placements they deserve. We encourage various colleges and universities to implement our system for better results. Our system will make the User experiences secured and most importantly flexible.

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