Placement Management System based on ASP.NET Technology

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Abstract - Placement Management System do activities for Training and placement cell and place the best coordination between student and training and placement cell. It provides student community to use collective information and eases out process of placement. Placement Management System focuses on computerization of placement cell. Communicating about the several job openings to the students, managing the corporate relationship for inviting them for the placements as well other activities, monitoring the progress of the selection process and communicating with different users. Placement Management System provide the facility to eligible students for registration. College staff can see the registered students and their status. Provide a proper login with time & role based secured access to Placement Officer, College staff and Students. There are many technologies is their to build the Placement Management System, one of them is ASP.NET

ASP.NET is a web platform that provides all the services that you require to build enterprise-class server-based web applications. ASP.NET is built on the .NET Framework, so all .NET Framework features are available to ASP.NET applications. applications can be written in any language that is compatible with the common language runtime (CLR), including Visual Basic and C#.

To create ASP.NET web applications, we can use Visual Studio and a free standalone product Visual Studio Express for Web is also available that includes the core set of web design features from Visual Studio.

*Key Words***: :** ASP.NET, Visual Studio, .NET Framework, Microsoft, Web Applications, aspx.

1. INTRODUCTION

A large number of companies visit for recruitment in Campus every year and recruit eligible students from the campus. The whole recruitment process, right from announcement of company schedule to hiring students, the entire process is handled by Placement office with the help of few placement coordinators. The use of traditional technology and methodology for the entire process makes the process difficult
for the students. During this process, the college students are dependent solely on the placement coordinators, who are prone to irregularities and mistakes. When it comes to preparing for the aptitude test and interviews, there isn't a one-stop platform where the students can prepare from. Making the whole placement process easier and lot more efficient.

1.1 Introduction to ASP.NET:

ASP.NET is an open-source server-side web application framework designed for web development to produce dynamic web pages. it was developed by Microsoft to allow programmers to build dynamic web sites, web applications and web services.

ASP.NET Web pages, known officially as Web Forms, are the main building blocks for application development in ASP.NET. There are two basic methodologies for Web Forms, a web application format and a web site format. Web applications need to be compiled before deployment, while web sites structures allows the user to copy the files directly to the server without prior compilation. Web forms are contained in files with a ".aspx" extension; these files typically contain static XHTML/HTML markup or component markup. The component markup can include server-side Web Controls and User Controls that have been defined in the framework or the web page. For example, a textbox component can be defined on a page as <asp:textbox id='myid' runat='server'>, which is transfered into a html input box. Additionally, dynamic code, which runs on the server, can be placed in a page within a block <% -- dynamic code -- %>, which is similar to other Web development technologies such as PHP, JSP, and ASP. With ASP.NET Framework 2.0, Microsoft introduced a new code-behind model that lets static text remain on the .aspx page, while dynamic code remains in an .aspx.vb or .aspx.cs or .aspx.fs file that is depending on the programming language used.

2. Creating web pages:

In Visual studio placement management system web pages are created using ASP.NET framework, placement management system contains .Master pages , .aspx pages, .cs pages.Placement management system conatins main page, Homepage, contact us page, login , admin login, registration page etc.

```
<%@ Master Language="C#" AutoEventWireup="true"
CodeBehind="Main.master.cs" Inherits="TPOSite.Main" %>
  <!DOCTYPE html>
  <html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Placement Activity</title>
```

```
<meta http-equiv="Content-Type" content="text/html;
charset=utf-8" />
<link href="Registration/css/style.css" rel="stylesheet"
type="text/css" />
<link rel="stylesheet" type="text/css"
href="Registration/css/coin-slider.css" />
<script type="text/javascript" src="Registration/js/cufon-
yui.js"></script>
<script type="text/javascript" src="Registration/js/cufon-
titillium-900.js"></script>
<script type="text/javascript"
src="Registration/js/jquery-1.4.2.min.js"></script>
<script type="text/javascript"
src="Registration/js/script.js"></script>
<script type="text/javascript" src="Registration/js/coin-
slider.min.js"></script>

    <div class="clr"></div>
   </div>
  </div>
  <div class="footer">
   <div class="footer_resize">
    <div style="clear:both;"></div>
   </div>
  </div>
 </div>
 </form>
</body>
</html>
```
Code written in the main.Master page

```
<%@ Page Title="" Language="C#"
MasterPageFile="~/Main.Master" AutoEventWireup="true"
CodeBehind="Homepage.aspx.cs"
Inherits="TPOSite.Homepage" %>
<asp:Content ID="Content1"
ContentPlaceHolderID="ContentPlaceHolder1"
runat="server">
 <div class="mainbar">
    <div > <h2 align="center">Welcome To Placement
System</h2> <div></div>
   <div></div></div><div align="left">
    <p>
```
Computers and information technology has a major influence on the society and the society is becoming more and more dependent on technology. Going on is an era of simplifying almost all complicated works using computers. The last few years have witnessed a tremendous increase in the capabilities and use of computers. Manual processing makes the process slow and other problems such as inconsistency and ambiguity on operations. The proposed system intends user-friendly operations which may resolve ambiguity. By considering all this factors, the applications produced, which performs the social service simply and effectively.
```
      </p>
    </div>
```

```
  <div align="left">
   <p>
    *
     Help in fast access procedures in placement related
activities<br/>
    *
   The facility of maintaining the details of the students<br/>
    *
   This project will aid colleges to practice full IT
deployment.<br/>
    *
   Mailing Facility to send notifications.<br/>
    *
   Automatic Notifications using wireless mobile technology
(SMS).<br/>
    </p>
   </div>
  </div>
</asp:Content>
```

Code written in the Homepage.aspx

3 Modules :

Placement management system are made up different important modules, for example

1. main page

Fig 3.1: main page

This is the main page of placement website

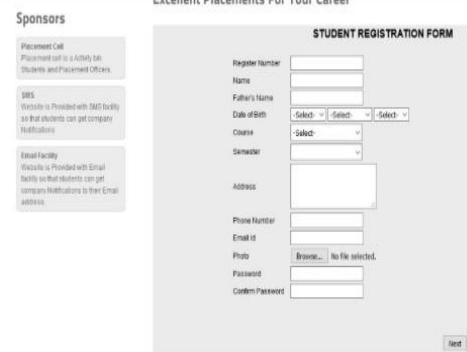2. Student Registration page

Fig 3.2: student registration page

This page contains details that has to be filled by a student in order to get registered.
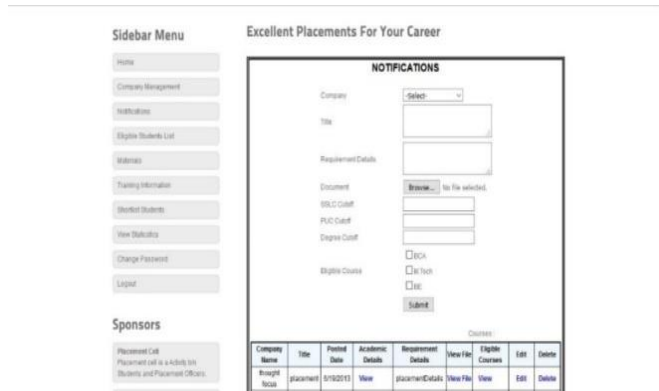
3. Company notification page

Fig 3.3: company notification page

This page will display the notifications regarding about a company which will be visiting to the campus

Conclusion:

ASP.NET aims for performance benefits over other script-based technologies

This feature provides the ease of development offered by scripting languages with the performance benefits of a compiled binary. However, the compilation might cause a noticeable but short delay to the user when the newly edited page is first requested from the Web server, but not again unless the requested page updates

In the existing system, maximum work goes manually and it is error prone system, takes time for any changes in the system. The big problem is the searching; sorting and updating of the student data. In the Placement Management System provides automation in all the processes. The system gets automated in the online registration all the user, activation and deactivation of the user. The admin can see the user information and will validate it, generate the student list based on the company criteria, company details can be provided to the user. Also, Alumni data can be maintained.

Hence Placement Management System is better solution for existing system and ASP.NET   will provide a best performance when compared to other script-based technologies, so Placement Management System Based On ASP.NET Technology is a better web application that will meet our expectations.

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