Training and Placement Database Management System

Prof. Ankita Tidake[1], Praveen Kumar Priyadarshi[2], Neha Prakash Langhe[3], Prachi Prakash Bhosekar[4], Sayali Sunil Parhad[5], Shubham Gajanan Rajpure[6]

[1]*Professor, Dept. of Information Technology, JSPM's Bhivarabai Sawant Institute of Technology & Research, Maharashtra, India*

[2,3,4,5,6]*Student, Dept. of Information Technology, JSPM's Bhivarabai Sawant Institute of Technology & Research, Maharashtra, India*

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Abstract - *This project is based database management system which is to be used by various training and placement department, this project will contain the all the aspects of training and placement department like managing meetings, student data, placement details, company details, etc. The backend of this project is based on phpMyAdmin and database management system where as front is based on HTML programming.*

Key Words: ***HTML, phpMyAdmin, Database, Training and Placement***

1. INTRODUCTION

When we look back our training and placement department, we let to know that this department requires automation process to manage the database of the students, data related to training and placement of the students, company details, company drives, MoU's details, Meetings data, Alumni Database, etc.

So, to automate this process which is going completely on pen & paper should be automated and digital. So, for the automation of all this we decided to design a Training and Placement Database Management System in which we will have all this feature automated to manage the data related to placement department.

The front end of the project will be based on HTML 5.1 and PHP whereas backend is based on database.

2. LITERATURE SURVEY

2.1 HTML (HYPERTEXT MARKUP LANGUAGE)

- **Hypertext Markup Language** (**HTML**) is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

- Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

- HTML can embed programs written in a scripting language such as JavaScript, which affects the behavior and content of web pages. Inclusion of CSS defines the look and layout of content. The World Wide Web Consortium (W3C), former maintainer of the HTML and current maintainer of the CSS standards, has encouraged the use of CSS over explicit presentational HTML since 1997.[4]

- HTML documents imply a structure of nested HTML elements. These are indicated in the document by HTML tags, enclosed in angle brackets thus: `<p>`.[5]

2.2 PHP

- **PHP: Hypertext Preprocessor** (or simply **PHP**) is a general-purpose programming language originally designed for web development. It was originally created by Rasmus Lerdorf in 1994; the PHP reference implementation is now produced by The PHP Group. PHP originally stood for Personal Home Page, but it now stands for the recursive initialism PHP: Hypertext Preprocessor.

- PHP code may be executed with a command line interface (CLI), embedded into HTML code, or used in combination with various web template systems, web content management systems, and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in a web server or as a Common Gateway Interface (CGI) executable. The web server outputs the results of the interpreted and executed PHP code, which may be any type of data, such as generated HTML code or binary image data. PHP can be used for many programming tasks outside of the web context, such as standalone graphical applications and robotic drone control.[6]

2.3 STRUCTURAL DATABASE (MySQL)

- **MySQL** is an open-source relational database management system (RDBMS).[1] Its name is a combination of "My", the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language.
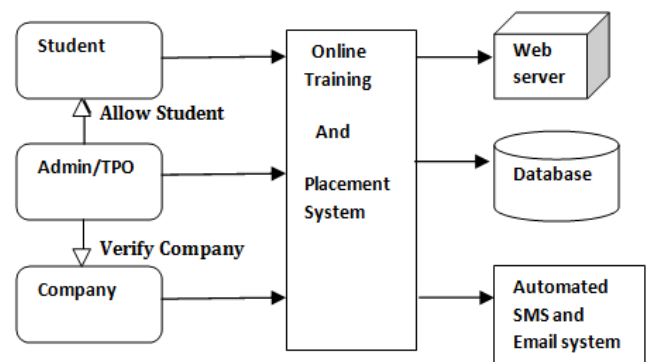
- MySQL is free and open-source software under the terms of the GNU General Public License, and is also available under a variety of proprietary licenses. MySQL was owned and sponsored by the Swedish company MySQL AB, which was bought by Sun Microsystems (now Oracle Corporation). In 2010, when Oracle acquired Sun, Widenius forked the open-source MySQL project to create MariaDB.

- MySQL is a component of the LAMP web application software stack (and others), which is an acronym for Linux, Apache, MySQL, Perl/PHP/Python. MySQL is used by many database-driven web applications, including Drupal, Joomla, phpBB, and WordPress. .[2]

2.3.1 Major features as available in MySQL 5.6 [3]

- A broad subset of ANSI SQL 99, as well as extensions

- Cross-platform support

- Stored procedures, using a procedural language that closely adheres to SQL/PSM

- Triggers

- Cursors

- Updatable views

- Online Data Definition Language (DDL) when using the InnoDB Storage Engine.

- Information schema

- Performance Schema that collects and aggregates statistics about server execution and query performance for monitoring purposes.

- A set of SQL Mode options to control runtime behavior, including a strict mode to better adhere to SQL standards.

- X/Open XA distributed transaction processing (DTP) support; two phase commit as part of this, using the default InnoDB storage engine

- Transactions with savepoints when using the default InnoDB Storage Engine. The NDB Cluster Storage Engine also supports transactions.

- ACID compliance when using InnoDB and NDB Cluster Storage Engines

- SSL support

- Query caching

- Sub-SELECTs (i.e. nested SELECTs)

- Built-in replication support

2.4 EXISTING SYSTEM

- In this system you will save time as well as money as its web-based application. That can collect information of all college students and fetch them according to criteria given by company. This have three modules Admin/Training and Placement Officer (TPO), Student, Company. Admin has full access reserved over the system. Students can mainly upload their CV and can dow6nload resources by Admin/TPO and Company. Company can register and give their criteria for placement. Our proposed system is vital to use in Colleges for better Services in Placement. [7]

- **Admin/TPO Module:** The admin module has an authority to add student and Company to the system and provide their valid id and password. The main user of the admin module is TPO of the college. TPO of the college will able to update details such as college name, college address, establish year, emp_id, branch, number of students, email_id, contact number, web address, etc. [7]

- **Student Module:** Student module deals with information of student. Student who has 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 PRN as their user name and password. [7]

- **Company Module:** Initially Company must need to login to the system by entering valid user_id and password provided by the administrator module. The recruiter updates his details like his company name, working criteria and information about itself. The Company will see the details about the college posted by the admin module to the system. The Company will also able to see the student details as name, branch, aggregate marks, passed out year etc. [7]

Fig -1: Architecture Diagram [7]

3. PROPOSED SYSTEM

Fig -2: Login Access Page

This project will have secure login access to a particular employee who can access and manage the data.

Fig -3: Main page

This page will contain all the main module for which the employee has to manage data and perform various operation.
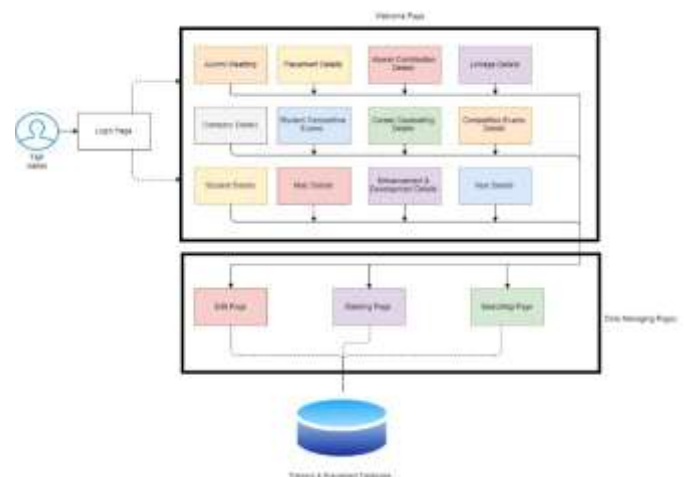

Fig -4: Company Data Module

This is one module which is company data module of the project for which the data is need to be managed.

Fig -5: Student Data Module (Managing)

This is one part of the module which is student module and this figure is showing how the employee will access and manage the data of the student.

Fig -6: Training and Placement Architecture

This is Training and Placement Database Management Project in which user can edit, delete, and manage the student data, company data, Alumni meetings, student placement details, student competitive exams, MoU details, career counselling details, enhancement & development details, competitive exam details.

This all pages are designed in PHP and HTML 5.1

Also, the backend of the page is database which is connected with MySQL. This project can be also be used on the offline system by using WAMP or LAMP server. [2]

3. CONCLUSION

Here we designed and implemented the training and placement database management system which is based on html and php with database. This project has automated complete system of training and placement department.

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