CAP777 – WEB DEVELOPMENT USING PHP
CA – 3
PROJECT REPORT

ON

(Student Job Placement Management System)

LOVELY PROFESSIONAL UNIVERSITY

PHAGWARA, PUNJAB

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1. Introduction

'Placement Management System' like many other placement management web sites, provides information on placement providers and the placements and also keeps up to date information of all students. It is a platform where students can view and assess their opportunities. The system will be having different types of accounts for different types of users such as Admin, Student, HODs, and tutor. A profile for each student is created with the necessary credentials for the portal. The system uses MySQL for database management and will sort the data of the student based on eligibility criteria demanded by the respective companies and a list of eligible candidates will be prepared and they can choose if they are interested to attend that particular drive or test. Based on this final data-set is created and the interested candidates will be registered automatically by the system. This way it reduces the work of college staff or faculty from the problem caused by human errors and wastage of time doing all the processes manually.

2. Scope of the Project

Students choose a specific college where the placement will be held, there is a need to maintain all these papers, causing large amount of space. It is manually done, chances of missing, difficult to handle the details of student

Scope of project:

Our project has a big scope to do. Students can access previous information about placement. We can store information of all students. Various companies can access their information. Notifications are sent to students about the companies.

1. Easy to collect and manage student data.
2. To increase the accuracy and efficiency of placement procedure.
3. Reduce the paper work.
4. Analysis of overall placement activities

Other features such as giving notification to students about the jobs that are available both on and off campus can be included in the upgraded versions. The system cannot provide the SMS integration. Hence, it can be modified to give the SMS integration. Other features like analytics can be added in future to this portal for tracking the progress of student in specific areas. After analysis this system will notify students of the areas, they are lacking in.

Justification of problem

Existing System

All processes in existing system are handled manually. All the work that is done in the existing system is done by the human intervention. As all the work is done manually, there were a lot of workloads on placement officer and it also increases the maximum chances of errors. This is so slow and time consuming. Due to increase in number of user's the process become more difficult. Problems faced in existing system are as follows-

• Searching of eligible students is done manually by TPO based on the company criteria.

• The records were stored in modified excel sheets hence sorting problem.

• The duplication of records was usual hence data redundancy.

• TPO's have to collect all the information and resumes of students and organize them manually and sort them according to various streams.

Collecting CV's of so many students is a painful and time consuming task and handling of too many CV's is a great overhead.

• It takes too much time to managing, updating and informing specific student for specific company criteria.

Proposed System

The main purpose of proposed Web based Training and Placement portal is meant to give more easiness to TPO, Placement coordinators and Students that they can modify and access information so quickly. The system provides a better way to maintain students' information in the database, ensures data correctness and data integrity as well. The system also reduces the paperwork time and provides an efficient information flow between different system modules. Our system consists of different modules to interact with. Firstly, on opening the web portal you'll land on the main page of the portal which showcases information about the college. Secondly, there are three tabs given in the portal namely T&P, Student, and Company. Each module has the same login page consisting of user id and password field for

gaining access to the functionalities of the system. in the portal namely, Student, and Company. Each module has the same login page that contain user Id and password field, by entering data in these field the user can gain access to the functionalities

3. Modules/ Functionalities of the Project

A Student Job Portal Management System typically includes various modules and functionalities to effectively manage job-related activities for students and employers. Here are some common modules and functionalities you might find in such a system:

1.User Registration and Authentication:

- Student Registration
- Employer Registration
- User Login and Logout

2.Profile Management:

- Student Profile Management
- Employer Profile Management
- Resume/CV Upload for Students

3.Job Listings:

- Job Posting by Employers
- Job Search for Students
- Advanced Search and Filtering
- Job Recommendations
- Application and Matching:

4.Apply for Jobs

- Application Tracking
- Matching Algorithm to suggest relevant jobs

5.Resume/CV Management:

- Create, Edit, and Update Resumes
- Privacy Settings for Resumes
- Downloadable PDF Resumes

6.Notifications and Alerts:

- Email/SMS Notifications for Job Updates
- Interview Invitations and Reminders

7.Interview Scheduling:

- Schedule Interviews
- Calendar Integration
- Interview Confirmation and Feedback

8.Skills Assessment:

- Online Tests and Quizzes
- Skill Validation and Certification

9.Messaging and Communication:

- In-App Messaging between Students and Employers
- Notifications for New Messages

10.Feedback and Ratings:

- Rate Employers and Job Applicants
- Leave Reviews and Feedback

4. Roles of individuals in the Project

In a Student Job Portal Management System project, several individuals or roles play crucial roles in the development, deployment, and maintenance of the system. Here are some of the key roles and their responsibilities:

Project Manager:

- Oversees the entire project.
- Develops project plans, schedules, and budgets.
- Manages the project team and resources.
- Ensures the project is on track and meets its goals.

Business Analyst:

- Gathers and analyses requirements from stakeholders.

- Defines the system's functional and non-functional requirements.
- Creates user stories, use cases, and requirement documentation.

Software Architect:

- Designs the system's architecture.
- Selects the appropriate technology stack.
- Defines the overall structure and components of the system.

UI/UX Designer:

- Designs the user interface and user experience.
- Creates wireframes, mockups, and prototypes.
- Ensures the system is user-friendly and visually appealing.

Developers/Programmers:

- Write code for the system based on the design and requirements.
- Implement the frontend and backend components.
- Ensure the system's functionality and security.

5. Structure for the backend database and tables:

Database Name: student_job_portal_db

Tables:

Users

Fields:

UserID (Primary Key)

Username

Password (hashed and salted)

Email

UserType (Student or Employer)

RegistrationDate

LastLoginDate

StudentProfiles

Fields:

StudentProfileID (Primary Key)

UserID (Foreign Key to Users)

Full Name

Contact Information

Education Details

Skills and Interests

Resume/CV File (Reference to file storage)

EmployerProfiles

Fields:

EmployerProfileID (Primary Key)

UserID (Foreign Key to Users)

Company Name

Contact Information

Company Description

Logo/Image (Reference to file storage)

Jobs

Fields:

JobID (Primary Key)

EmployerProfileID (Foreign Key to EmployerProfiles)

Title

Description

Job Type (Full-time, Part-time, Internship, etc.)

Location

Salary

Application Deadline

PostedDate

JobApplications

Fields:

ApplicationID (Primary Key)

JobID (Foreign Key to Jobs)

StudentProfileID (Foreign Key to StudentProfiles)

ApplicationDate

Status (Pending, Accepted, Rejected)

Cover Letter

Resume/CV (Reference to file storage)

Interviews

Fields:

InterviewID (Primary Key)

JobApplicationID (Foreign Key to JobApplications)

InterviewDate

InterviewTime

Location (if in-person)

Interviewer

InterviewStatus (Scheduled, Completed, Canceled)

Skills

Fields:

SkillID (Primary Key)

SkillName

6. Structure of the Front End (User Interfaces)

Designing the front-end user interfaces for a Student Job Portal Management System is essential for creating an intuitive and user-friendly experience. Here's an overview of the main user interfaces and their components:

1. Landing Page:

Header with logo and navigation links (Home, Job Listings, Register/Login, About, Contact)

Search bar for job searches

Featured job listings or promotions

Introduction and overview of the platform

Call to action buttons for registration and login

2. Registration and Login:

User registration form with fields for username, email, password, and user type (Student or Employer)

Login form with fields for username/email and password

Option for social media login (e.g., Google, LinkedIn)

3. User Dashboard:

Welcome message with user's name

Navigation menu (Profile, Job Listings, Applications, Messages, Settings)

Quick access to profile details and settings

Notifications and alerts

4. Student Profile:

Profile picture

Personal information (name, contact details)

Education details (school, degree, GPA)

Skills and interests

Upload and manage resume/CV

Edit profile and privacy settings

5. Employer Profile:

Company logo or image

Company information (name, industry, location)

Description of the company and its mission

Contact details

Edit profile and company information

6. Job Listings:

Search and filter options (by keyword, location, job type, salary, etc.)

List of job postings with key details (title, company, location, application deadline)

Sorting options (e.g., by date, relevance)

Pagination for large job lists

Apply button for each job

7. Job Details:

Detailed job description (including responsibilities, qualifications, benefits)

Application form with cover letter and resume upload

Apply button

Related jobs or recommendations

8. Applications and Interviews:

List of job applications with application status (Pending, Accepted, Rejected)

Application details (job title, company, date applied)

Interview details (if scheduled)

Interview scheduling and feedback options

9. Messaging System:

Inbox with messages from employers or students

Message threads with message history

Compose and send messages

Notifications for new messages

10. Settings and Preferences:

- Profile settings (change password, email, privacy settings)

- Notification preferences (email, SMS, push notifications)

- Language and theme preferences

- Account deletion option

7. Site Map or Navigation Structure

1.Home

Welcome message

Search bar for job searches

Featured job listings

Call to action buttons (Register, Login)

2.Job Listings

All Jobs

Search and filter options

List of job postings

Pagination

Job Details

Detailed job description

Application form

3.User Profiles

Student Profile

Personal information

Education details

Skills and interests

Resume/CV upload

Employer Profile

Company information

Description and mission

Company logo/image upload

4.Applications and Interviews

My Applications (Student)

List of job applications

Application status

Interview details

My Jobs (Employer)

List of posted jobs

Applicant details

Interview scheduling

Interviews

List of scheduled interviews

Interview details and feedback

5.Messaging System

Inbox

List of received messages

Message threads

Compose message

8. Code snippets:

Here are some code snippets of Student Job Placement Management System using PHP involves building a web application with a server-side scripting language like PHP and a database for data storage, often MySQL. Below are some code snippets for specific features of such a system:

1. User Authentication (PHP with MySQL)

```
<?php
 session_start();
    include("db_connect.php");

    if ($_SERVER["REQUEST_METHOD"] == "POST") {
       $username = $_POST["username"];
       $password = $_POST["password"];

       $sql = "SELECT * FROM users WHERE username = '$username' AND password =
    '$password'";
       $result = mysqli_query($conn, $sql);

       if (mysqli_num_rows($result) == 1) {
          $_SESSION["username"] = $username;
           header("location: dashboard.php");
       } else {
```

```
        $login_error = "Invalid username or password";
    }
    }
    ?>

    <!-- HTML form for login -->
<form method="post" action="">
        <input type="text" name="username" placeholder="Username" required><br>
        <input type="password" name="password" placeholder="Password" required><br>
        <input type="submit" value="Login">
    </form>
```

2. Student Profile (PHP with MySQL)

```
    <?php
    include("db_connect.php");

    if ($_SERVER["REQUEST_METHOD"] == "POST") {
        $name = $_POST["name"];
        $email = $_POST["email"];
        // Add more student-related fields

        $sql = "INSERT INTO students (name, email) VALUES ('$name', '$email')";
        if (mysqli_query($conn, $sql)) {
            $success_message = "Student profile created successfully.";
        } else {
            $error_message = "Error: " . mysqli_error($conn);
        }
    }
    ?>

    <!-- HTML form for creating a student profile -->
    <form method="post" action="">
```

```
    <input type="text" name="name" placeholder="Name" required><br>
    <input type="email" name="email" placeholder="Email" required><br>
    <!-- Add more fields as needed -->
    <input type="submit" value="Create Profile">
</form>
```

3. Display Student Data (PHP with MySQL)

```
<?php
include("db_connect.php");

$sql = "SELECT * FROM students";
$result = mysqli_query($conn, $sql);
?>

<!-- Display student data in an HTML table -->
<table>
    <tr>
        <th>Name</th>
        <th>Email</th>
        <!-- Add more table headers for other student data -->
    </tr>
    <?php while ($row = mysqli_fetch_assoc($result)): ?>
        <tr>
            <td><?php echo $row["name"]; ?></td>
            <td><?php echo $row["email"]; ?></td>
            <!-- Add more table cells for other student data -->
        </tr>
    <?php endwhile; ?>
</table>

?>
```

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