



Placemaster – The Placement Management System for College

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ABSTRACT

The management system for placements in various organizations often involves a combination of documentation work, spreadsheets, phone calls, group messaging, and direct communication with placement officers. Due to the non-availability of automation, there is a significant dependency on manual processes, resulting in a substantial amount of paperwork. So, it is observed some of the limitation in existing system, which are identified from all (student, admin, employee) perspective to get and find the information of previous company drives which takes place in college and they don't possess any idea of the upcoming companies too. The primary goal of this work is to streamline all placement-related activities and face-to-face communication. This web applications comes with 3 modules namely Admin, Student and Employee. And significantly reduce the manual process and documentation and help in streamlining the entire placement process.

Keywords: Placemaster; The placement management system; MERN; Node(.js); React(.js)

Introduction

The management and information system known as "Placemaster" holds current data on every student enrolled in an institution of higher learning. Every student can create an account and log in using their email address and password using this web application. The placement process will be made simple and effective with the aid of this web application, which will benefit both students and recruiters as well as colleges. The "Placemaster" assists the TPO (Training and Placement Officer) in overcoming the challenge of maintaining all the firm information in addition to student information because they must manage all these details manually by using documentation work or excel Sheets, making it time-consuming as well. From student's perspective also it is difficult to remember the past in addition to upcoming companies.

This package contains three modules namely Admin, Student, and Employee. The system administrator can sign in using their credentials. Admin has the knowledge to create, edit, and delete drives. Administrators possess access to all student data, including CVs and other personal and academic data. The system's student module allows users to sign up for an account, log in, and examine all the information about their disks. The system's Employee module allows users to access all student data, and they can also perform searches on students using criteria like abilities or CGPA. The major objective of this online portal is to cut down on the amount of documentation work that TPO has to complete.

System Architecture

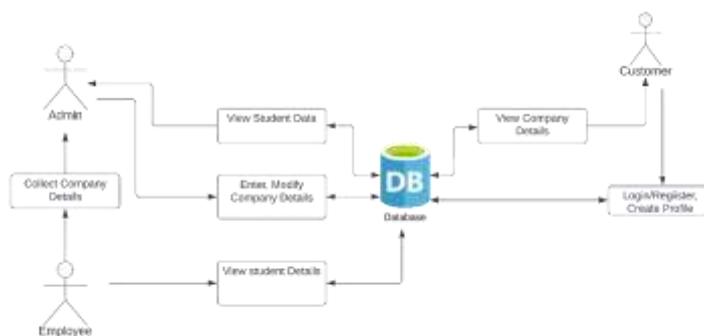


Fig.1-System Architecture

Existing System

Santhosh Kumar, H [1] has carried out work on the Online Training and Placement Management system in which there are many advantages present but there are some limitations that is after registration students must submit the application to verify the details which is time consuming for students as well as admin perspective. They provide one options to admin that is students account is active or inactive means if admin sets the any student account to active mode, then the student not able to update their account details skills and all. In order to update the account detail, they have to meet the TPO. Punitha Nicholine et. al [2] have carried out work on placement management system in which college or TPO are providing login credentials to each and every student so that it is secured but it is time consuming process. There is no option available for students to upload their resume in portal. There is no employee or recruiter module is present. Saji et. al [3], Akre et. al [4], Kethrin Malar et. al [5], Laird et.al [6], have done the similar work on placement management system, in that we observed similar limitations.

Proposed System

The proposed system reduces the documentation work and storage area. Everything is offered at one location. All the details will display in proper formatted manner. Various facilities are also provided. Students and Admin can also view past and upcoming company details. Admin can download resume of any student if admin wants. The system comes with Employee module also where employee can search the students based on skills, CGPA etc.

Requirement Analysis

Functional Requirements: The admin can login into the system. The admin can create new drives. The admin and student can search company based on company name. The admin can search the student based on USN (Universal Student Number) and department (branch). New student can register and existing student can -login into the system. Students can create their profile. Students can upload their resume / CV. The employee can register and login into the system. The employee can search the student based on skills, branch, and CGPA.

Non-Functional Requirements: The system comes with good performance where it gives fast response to any request. The security is also provided whenever user wants to login then the user must be authenticated and OTP (One Time Password) verification mail is also sending whenever user registered first time. The system comes with simple and elegant interface where each activity is performed easy without need of any training. The accuracy of the system is also high it gives correct result to any request.

Modules

Admin Module : The admin of the system can login into the system. Admin can view all the information such as how many students are registered in the portal and total number of companies as well as number of past and upcoming companies. The admin can create new drives also admin can modify and delete the drives. The admin can search the student based on USN, CGPA and departments etc. Admin can download the resume of any student if he/she wants.

Student Module: In this student is the user. If the user is new then he/she can register into the system. On the registration process the verification OTP will send to the entered email address in order to verify the user. After successful register user can able to login into the system with their credentials. After login, user can create their profile in profile creation process they have to enter their personal as well as educational information such as name, email, address, skills, project work etc. The user can also upload their resume / cv in the portal. The user can also view all the drives (company details) that is past as well as upcoming companies. The user can also search the company based on the company name. User can also update their profile and they can also set the new password if they forgot.

Employee Module: The employee(recruiters) of the companies can register into the portal. The email verification OTP is also sends to employee entered email address. After successful register employee can able to login into the system with their credentials. After login, employee can view the student information. The employee can also search students based on skills, CGPA and branch.

RESULT

Admin Module

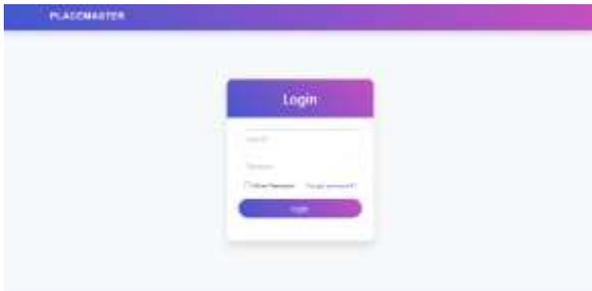


Figure 2: Login Page



Figure 3: Dashboard Page

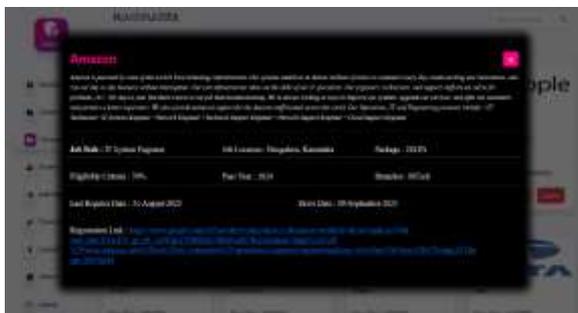


Figure 6: Drive Information Page



Figure 5: View Drive Page



Figure 4: Ceate Drive Form

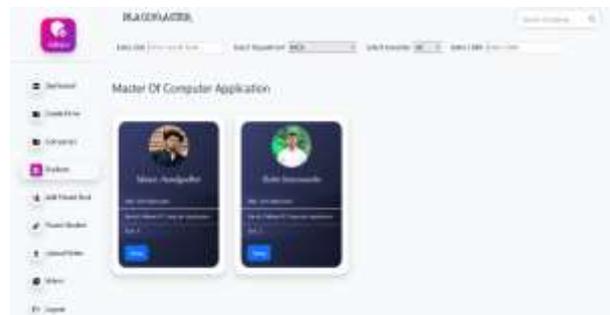


Figure 7: View Student Page

Student Module

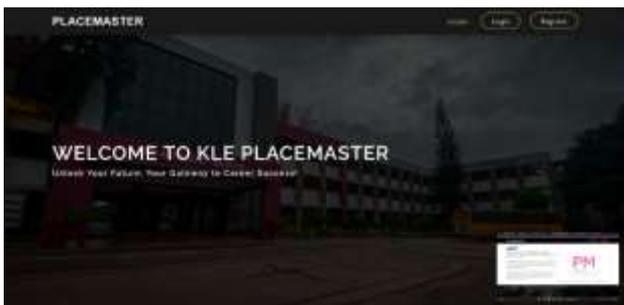


Figure 8: Home Page



Figure 9: Signup Page



Figure 10: OTP Verification Form

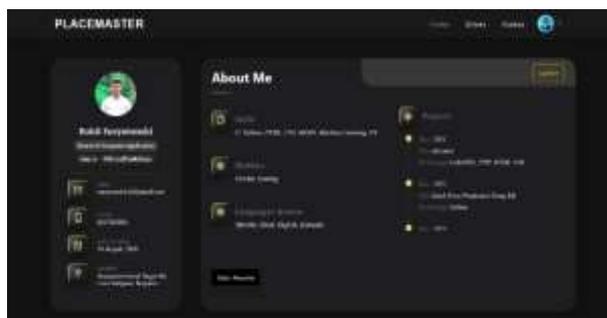


Figure 11: Profile Page



Figure 12: Student View Page



Figure 13: Student View Page with Search Filter Applied

Employee Module

CONCLUSION

In this work an attempt is made to do reduce all the documentation work as well physical conversation, this application is created to make placement process much easier and faster for TPO, students as well as recruiters. We build this system using MERN technology to provide more feature for better performance which are better than the existing systems available in real world. It provides detail solution for the existing system problem. In conclusion, our MERN-based program offers a thorough and progressive response to the problems that beset current placement systems. It not only streamlines and expedites the hiring process, but it also raises the bar for effectiveness, communication, and data usage. The program therefore promises to transform how institutions and businesses conduct placements, encouraging stronger relationships between students and recruiters and establishing prosperous career routes for the workforce of the future.

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