Online job portal web application using MERN stack

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Abstract:
The online job portal is to develop an independent job portal for the organisation to maintain and publish all the databases of job seekers, professionals, and students for the various opportunities. It also helps to reduce the cost that has been spent on database purchases and access from other job portals. The main controller of the module for accessing the entire job portal is Admin. Only the administrator can add and give access to the other employers with their allocated access for database access and job posting. The administrator can keep a complete database of all the users associated with this system.

keywords: job seekers, employers, job portal, Admin

I. INTRODUCTION

MERN stack means Mongodb, Express.js, React.js, Node.js. Job Search Portal is a web application that helps job seekers find available job openings and employers identify qualified job candidates with the goal of hiring the best candidates. The only way to select the best-qualified candidate is to have a pool of eligible applicants, which is possible by drawing the interest of individuals in the market. Job search portals best serve this purpose. E-recruitment has become the standard means for employers and job seekers to meet their respective objectives. The traditional methods for recruitment include job fairs, university career employment services, employee referrals, advertising in newspapers and television, etc. With the advancement in technology and growth of internet usage, e-recruitment has revolutionised the way organisations hire and candidates search for jobs. With online job search portals, the recruitment process is sped up at every stage, from job postings to receiving applications from candidates to the interviewing process. When compared to traditional methods of advertising, the cost of searching for and posting jobs will be much lower. Job search portals stand as an effective means for employers to outline job vacancies, responsibilities, and qualifications to attract jobseekers. Using the portal, jobseekers can extensivelysearch for jobs in companies, organizations, and regions they may otherwise not have learned about. In addition, candidates and employers can write reviews about an organization, which might help them change the way things are done.

II. RELATED WORK

Old and new ways of job seeking usually involve different ways to look for jobs, such as through personal contacts, direct telephone calls to employers, job agency offices, scanning online job listings, etc. Before the Internet became widely used as a method of seeking jobs, jobseekers spent a lot of time using various methods to look for job openings. Today, jobseekers use online methods, which are very convenient and save a lot of time. Galanaki lists the following methods as the traditional ways for recruitment:

- Employment placement services
- Job fairs
- Advertising in mass media such as newspapers
- Advertisement on television and radio
- Management Consultants
- Employee contacts who are already in place
- Schools, colleges, or universities, student services department
- workers or professional referrals.

These traditional job-search methods are too slow, stressful, and difficult, and they also lack quality.In addition, the applicants have to consider the cost, the amount of time it will take to get the information they need, and other preparations they have to make. Finding all available job vacancies is a main step in the job-seeking process. The Internet is now a powerful tool that jobseekers can use.

The Internet plays an important role in the area of human resource planning and development. Most planning and development organisations are now using computer technology and the Internet for staff recruitment. It should be noted that, while the Internet has facilitated the job-search process, it has not completely replaced traditional methods.

Disadvantages:
- The job boards do not offer any free services.
- Few of the portals don't provide quality profiles.
- Technology issues

In the existing system, most employersare using common job portals such as Naukri, Monster, and other job portals. These job portals are very expensive to use. Accessibility will also be determined based on the cost. Few free job portals produce high-quality profiles of both new and experienced professionals.

III.   PROPOSED SYSTEM

The proposed system automates the concept of having an independent job portal for the particular organisation as well as the accessibility that can be given to other companies for using this job portal at a reasonable price.So these facilities provide benefits for internal purposes as well as revenue generation through these portals. It has its own product development, so it will be a long-term asset for a company. Every student and job seeker has to go through the screening exams before they apply for their respective field and post their resume on this particular portal. To create an independent job portal for the particular organisation that provides access to other companies for a reasonable price. By registering in the job portal, job seekers and students will be automatically notified via email.To create an independent job portal for the particular organisation that provides access to other companies for a reasonable price.

Advantages:
- Faster and efficient system
- Job alerts
- Job filters
- Free of cost
- Secure application

IV.   SYSTEM REQUIREMENTS

Table1: Software requirements

Number	Description
1	Visual Studio code
2	Windows 10
3	Mongodb
4	Express.js
5	React.js
6	Node.js

Table2: Hardware requirement

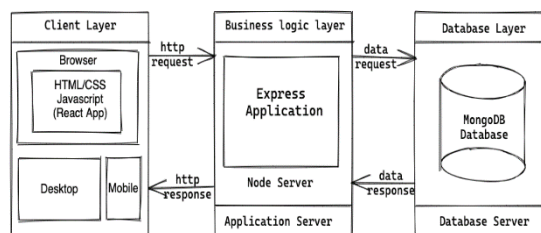| Number	Description
1	4GB RAM
2	1.90GHz processor
3	40GB Hard Disk

System Architecture:

Fig1: System Architecture

V.   MODULE

The Login Module is a portal module that allows users to type a user name and password to log into the dashboard. where the admin has a username and password to login to the dashboard. After the validation of the username and password, the admin can be redirected into the dashboard module.
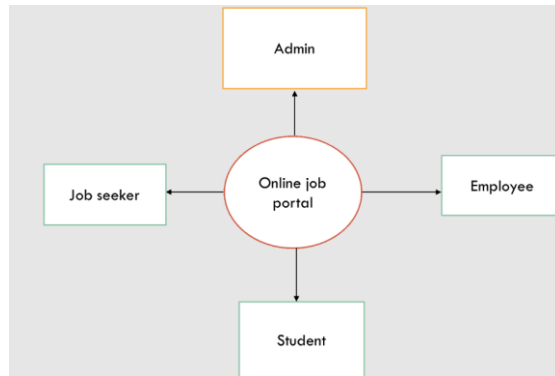

Fig2: Module diagram

Admin:
Administrator manages the entire application and maintains the profiles of job seekers and Recruiters. This module provides all the Administrator related and functionalities.

- Add new companies
- Delete existing account
- Edit existing account

Job seeker:
Search jobs, post your resume and access career info and download sample resumes, Papers of various recruiters and sample cover letters etc. and can upload any useful information.

Employers:
Get instant access to today's most powerful hiring tools post jobs, search resumes, screen candidates and streamline your entire hiring process.

VI.   RESULT AND DISCUSSION

We also tried to follow theholistic design principle so that the interface of thesystem is simple. During the course of this as part of our assignment, we have gone through many obstacles.
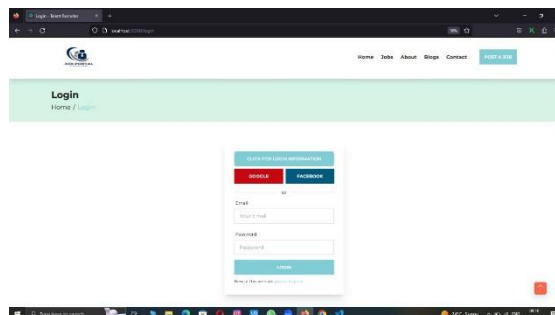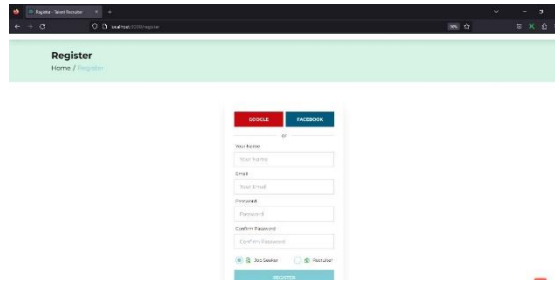

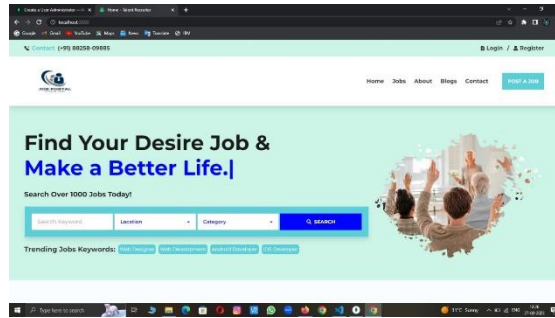**Fig3:** Login page

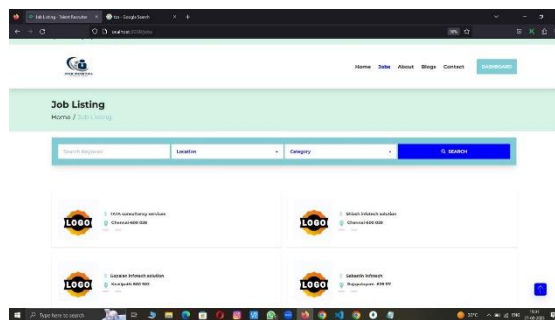**Fig4:** Register page

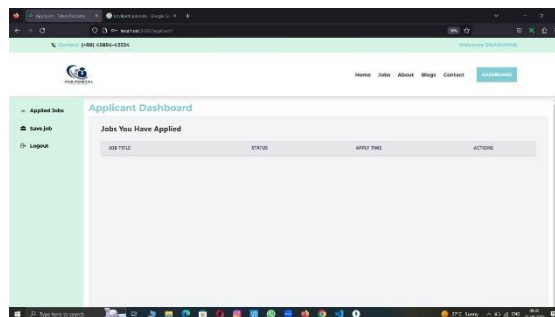**Fig5:** Home page

Fig6: Job search page

Fig7: Application status page

VII. CONCLUSION

This project of an online job portal can be concludedwas a real learning experience. The principles of softwarethroughout the productionwere well implementedsystem. The project was completed in accordance with the guidelines providedspecifications. The online job portal developed by us ispurely based on the React.js platform. A job portal providesan efficient search for online information on job vacanciesfor job seekers. The main goal of this portal is to attempt to produce the right graduatesbased on the industryneeds. However, it is critical to understand the job.Portals can never fulfil all the problems of the joblessgraduates.

VIII.   REFERENCES

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