

# Job Portal

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**Abstract:** "Job Portal" System is a student project that aims to create a website to facilitate the process of finding and applying for job opportunities. The project will develop a platform that allows job seekers to search for and apply to job openings, upload and manage their resumes and cover letters, and receive alerts for new job opportunities that match their preferences. The website will also provide resources and support for job seekers, including information about different industries and career paths, tips for preparing for job interviews and negotiations, and guidance on professional development. The goal of the project is to make it easier and more efficient for individuals to find and pursue job opportunities and to help employers connect with qualified candidates. By providing a comprehensive and user-friendly tool for managing the job search process, the Job Portal System hopes to contribute to a more dynamic and successful job market. The website utilizes various technologies and frameworks such as React, NodeJS, Express, MongoDB.

**Keywords:** HTML, CSS, JavaScript

## I. INTRODUCTION

"Job Portal" System is an innovative and dynamic solution to the challenges facing job seekers and recruiters in the digital age. With the rise of online job portals, it has become increasingly important to create a platform that not only streamlines the job search process but also ensures the safety and security of personal data. This student project aims to develop a user-friendly website that enables job seekers to find, apply for, and manage job opportunities in a more efficient and effective manner. The Job Portal System will provide a range of resources and support services to help job seekers navigate the complexities of the job market, while also offering employers access to a pool of qualified and talented candidates. By bringing job seekers and recruiters together on a single platform, this project hopes to contribute to a more dynamic and successful job market. In addition to providing a comprehensive job search tool, the Job Portal System project also seeks to address the need for a more flexible and versatile platform. Many existing job portals only cater to one side of the employment equation, either for job seekers or employers. However, this project recognizes the need to create a platform that can accommodate both job seekers and employers, including freelancers and contractors who may transition from job seeker to employer. Additionally, the project aims to address the issue of accessibility by developing a mobile application that allows users to easily access and manage job opportunities on-the-go. By incorporating these features, the Job Portal System project aims to create a more inclusive and responsive platform that serves the needs of all users in the job market.

There are mainly four modules:

- Admin
- Employer
- Candidate
- Mentor

In this paper, we have 4 logins such as for Admin, Employer, Candidate and for Mentor. The Admin module of the Job Portal System plays a critical role in managing the overall system. The module provides access to the administrative user who can approve or disapprove employer registrations. The Admin also has the authority to manage all job, candidate, and mentor details on the platform. They can add, modify or remove any details as per the system's requirements. The employer module in the job portal project is designed to provide a seamless and user-friendly experience for employers to post job openings, review and manage job applications, and schedule interviews. The

employers can easily create and update job descriptions on the platform, specifying the necessary qualifications, skills, and experience required for the job. The candidate module in the job portal project is designed to facilitate the job search process for individuals looking for employment opportunities. The module allows candidates to create a profile by registering on the platform, updating their personal information and building a comprehensive resume that showcases their skills and work experience. The mentor module in the job portal project provides a platform for experienced professionals to train and guide job seekers. The mentors can register and login to the portal and create lectures on various topics related to job search, career development, and professional skills.

## II. METHODOLOGY

Project Planning and Requirements Gathering: Define the objectives, features, and target audience of the website. Gather all the functional and non-functional requirements. Database Design: Design the database schema using MongoDB to store data, such as candidate, employer, resume, jobs etc. Backend Development with Node.js and Express.js: Implement the server-side logic to handle user requests, authentication, and interactions with the MongoDB database. API Development: Create RESTful APIs to handle CRUD operations (Create, Read, Update, Delete) for recipes and user-related actions. User Authentication and Authorization: Implement user authentication and authorization using tools like JSON Web Tokens (JWT) to secure the API endpoints and manage user sessions. Frontend Development with React.js: Build the user interface for the website, allowing candidate to search job, apply job and build resume. User Interface Design: Design an intuitive and visually appealing user interface with responsive layouts, making it accessible across different devices. User Interaction and Social Features: Allow candidate to view interviews. Implement features to create candidate profiles and save the profile. Testing: Perform unit testing, integration testing, and user testing to ensure the website functions correctly and meets the requirements. Security Considerations: Ensure data security by validating user inputs, sanitizing data, and protecting against common web vulnerabilities. Community and Feedback: Encourage user engagement, feedback, and community building to enhance the website's growth and content quality.

## III. EXISTING AND PROPOSED SYSTEMS

The existing system of job portal is an application which connects employer and job seekers where employers are the source of the resources and the job seeker can find and apply for their targeted job. The existing system Job Portal website is providing to the online job portal system. The customer can get the online registration. The existing system did not check the genuineness of the employers.

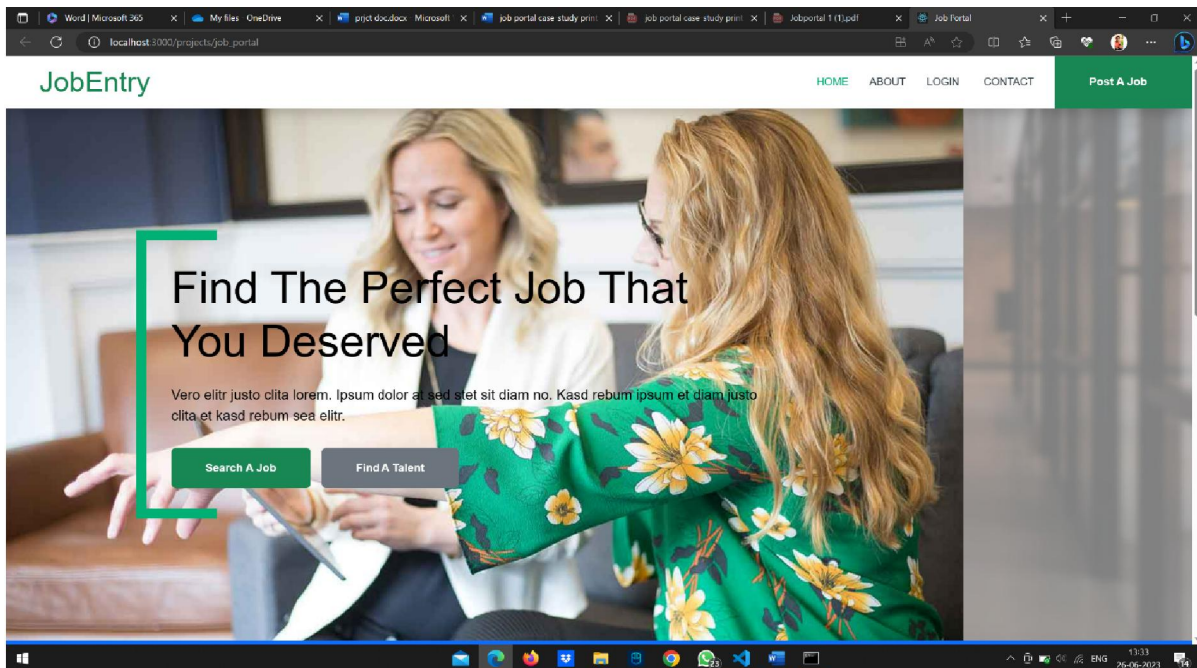
The proposed system will provide all detailed specifications of the jobs. The system also helps the candidates to make a resume. The system helps the candidate to increase their skills and it give the idea about top trending technologies as per the company requirements. The admin will also check the genuineness of every employers while they registering to our applications.

## IV. BACKGROUND

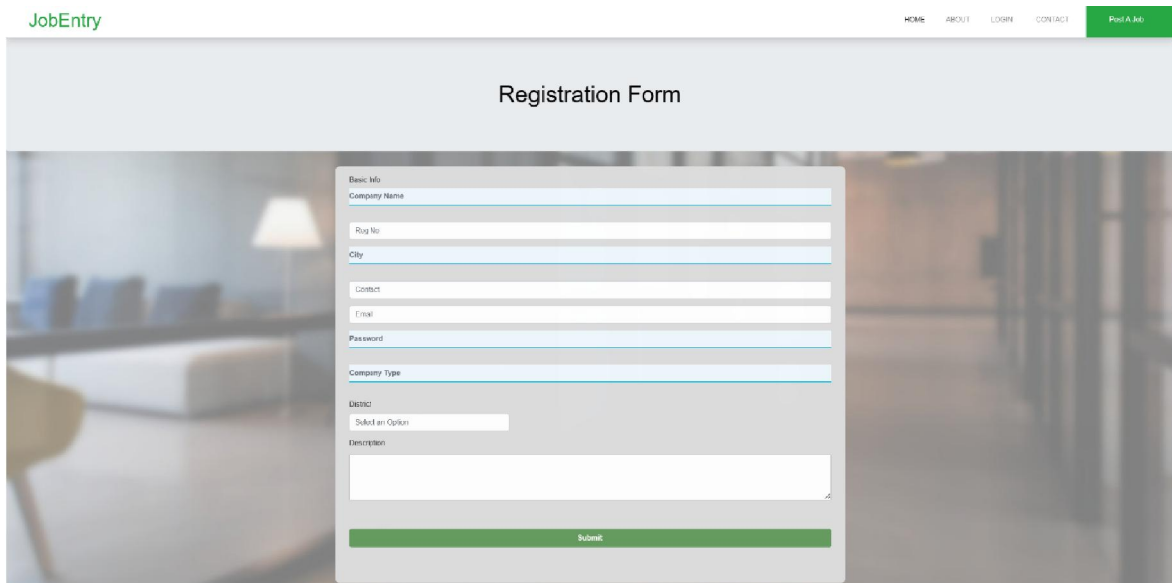
Technologies used in this Project:

The MERN stack is a popular combination of technologies used to build web applications. MERN stands for MongoDB, Express.js, React.js, and Node.js. Each component of the stack has a specific role to play in the web application development process. MongoDB is a NoSQL database that is used to store and manage the application data. Express.js is a server-side framework for Node.js that helps in building RESTful APIs and handling HTTP requests. React.js is a front-end framework used for building user interfaces. Node.js is a server-side JavaScript runtime used to build scalable and high-performance applications

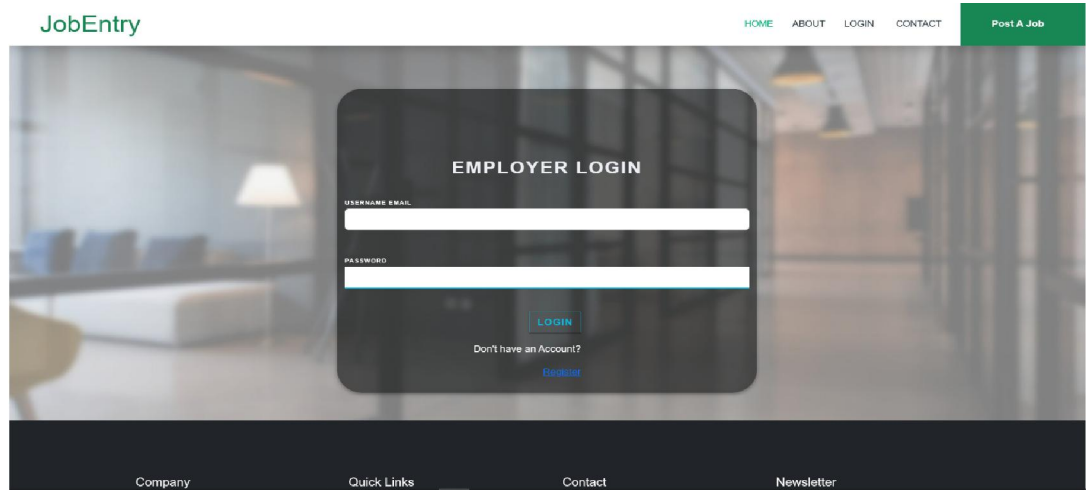
**V. RESULTS AND DISCUSSIONS**



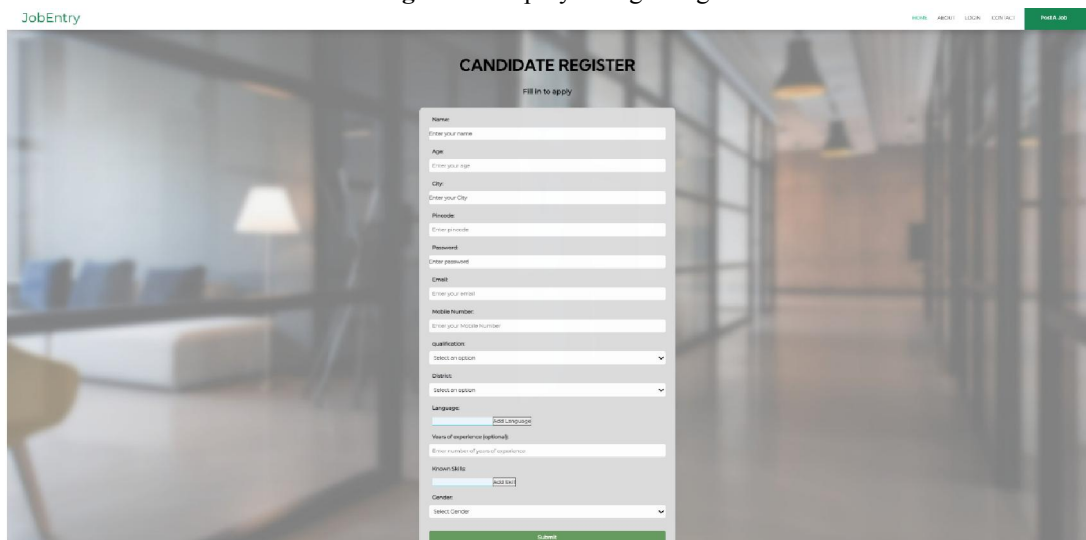
**Figure 1: Home Page**



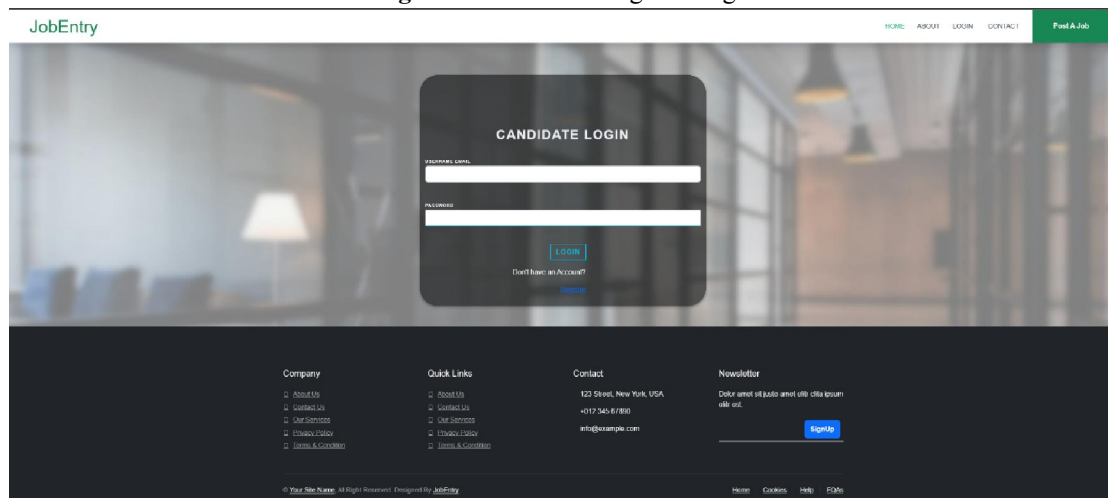
**Figure 2: Employer Registration Page**



**Figure 3: Employer Login Page**



**Figure 4: Candidate Register Page**



**Figure 5: Candidate Login Page**

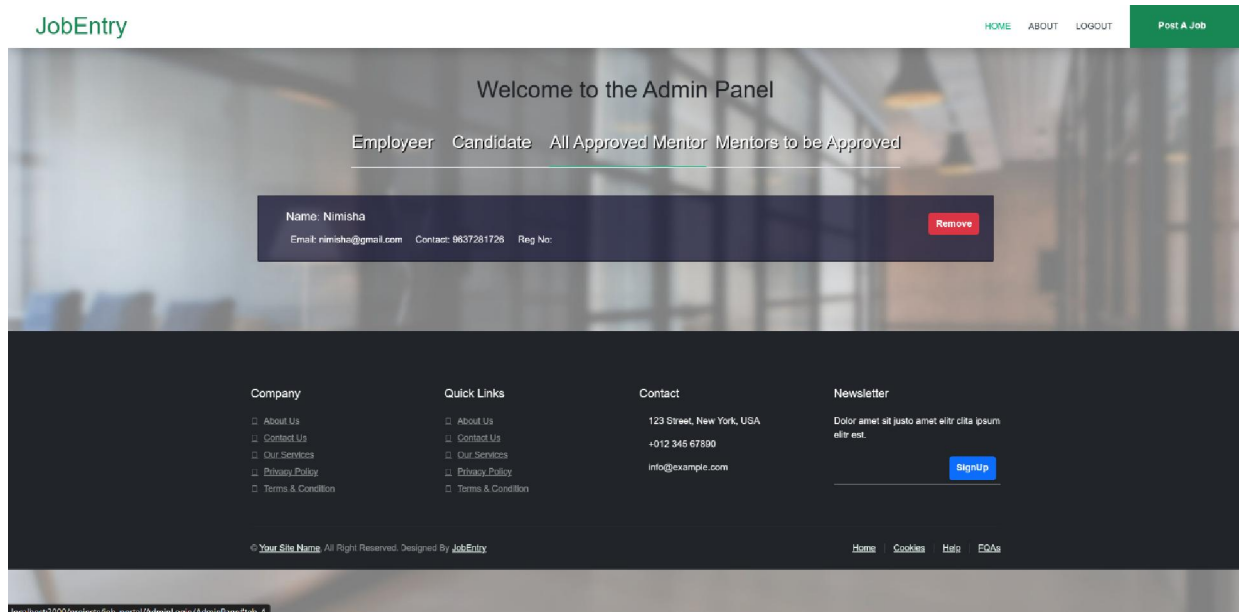


Figure 6: Admin Pannel Page

## VI. CONCLUSION

In conclusion, the Job Portal System project aims to provide a comprehensive platform for both job seekers and employers to connect and streamline the job search process. With the increasing use of online job portals, it is crucial to address the issues of fraud and lack of mobile accessibility. This project addresses these issues and provides a user-friendly interface that allows job seekers to search for job openings, upload their resumes and cover letters, and receive alerts for new job opportunities that match their preferences. Additionally, the project provides resources and support for job seekers to help them prepare for job interviews and negotiations, and guidance on professional development. Employers can also use the platform to manage job postings, view applicants, schedule interviews, and approve or reject applications. The system also allows for the management of mentor and candidate details, providing a platform for mentors to add lectures and train candidates. Overall, the Job Portal System project aims to create a dynamic and successful job market by making it easier for job seekers to find and pursue job opportunities and for employers to connect with qualified candidates. The system provides a comprehensive tool for managing the job search process, contributing to a more efficient and effective job market.

There are several potential future enhancements that can be made to a Job Portal project, including Mobile App developing a mobile app for job portal can make the platform more accessible to applicants and employers who prefer using their smartphones for job search. Voice Assistant incorporating a voice assistant feature can make job portal more user-friendly for customers who have difficulty typing or navigating through the website.

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