

SVEC JOB PORTAL MANAGEMENT SYSTEM USING ASP.NET

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Abstract— In the fast-paced and interconnected world of today, technological advancements have revolutionized various aspects of our lives, and the job application process is no exception. The shift from traditional manual job applications to online platforms has brought about significant advantages, streamlining the recruitment process for both employers and job seekers. The Job Portal System is a comprehensive web-based platform designed to streamline and enhance the process of job seeking and talent acquisition. In today's dynamic job market, the need for an efficient and user-friendly job portal is paramount. This system aims to connect job seekers with employers while providing a robust set of features to facilitate a seamless and effective recruitment process.

Keywords— Job Search, Admin and User, ASP.NET

I. INTRODUCTION

1.1 BACK GROUND In the contemporary landscape, rapid technological advancements have reshaped various aspects of our lives, and one area profoundly impacted is the job application process. The traditional manual approach has given way to online platforms, marking a paradigm shift in the recruitment landscape. This transition has not only simplified the process but has also introduced efficiencies for both employers and job seekers. The Job Portal System emerges as a comprehensive web-based solution designed to enhance and streamline the job seeking and talent acquisition process.

1.2. SIGNIFICANCE OF THE TOPIC In today's dynamic job market, the demand for an efficient and user-friendly job portal is more critical than ever. As businesses evolve, the need for a system that connects job seekers with employers seamlessly becomes paramount. The Job Portal System addresses this need by providing a robust set of features, including chatbots and application status tracking, to facilitate a smooth and effective recruitment process.

1.3. SCOPE The online job portal management system's scope is multifaceted, encompassing a range of features tailored to meet the needs of both job seekers and employers. For job seekers, the system offers an intuitive and user-friendly interface, facilitating easy navigation through a vast array of job opportunities. Advanced search and filtering options empower users to refine their searches, specifying criteria such as industry, location, and job type. The portal allows job seekers to create comprehensive profiles, upload resumes, and submit applications directly through the platform, streamlining the application process. Additionally, features like resume parsing and matching algorithms enhance the efficiency of job search by connecting candidates with roles that closely align with their skills and qualifications.

II. LITERATURE SURVEY

➤ *A Survey on Online Recruitment Systems:*

This survey provides insights into various aspects of online recruitment systems, including challenges, trends, and technological advancements. It covers both job seekers' and employers' perspectives.

➤ *Design and Implementation of an Online Portal System:*

This paper focuses on the design and implementation of an online job portal system, offering a practical perspective on the development of such systems.

➤ *A Framework for Online Job Portal with Advanced Features:*

The authors discuss a framework that introduces advanced features to enhance the functionality of online job portals. The paper explores innovative solutions for improving the user experience

➤ *A Survey on E-Recruitment and Its Impact on Job Seekers:*

This survey delves into the impact of e-recruitment on job seekers. It covers aspects such as user experience, challenges faced by job seekers, and the effectiveness of online job portals in matching candidates with suitable positions.

➤ *E-Recruitment: A Roadmap Towards e-Human Resource Management:*

The paper discusses the evolution of e-recruitment and its role in e-Human Resource Management. It explores the benefits, challenges, and future trends in online job portal management.

III. SYSTEM DESIGN

A. System Requirement Analysis

2.1. Use Case Diagram

The use case model shows the system's functionality from the user's point of view through use case diagrams. There are three participants in the use case diagram, namely admin, user and recruiter. From FIG 1, the admin is mainly responsible for managing jobs, user profiles, and queries, and can add and delete operations. Users can apply jobs, create his profile and maintain certificates etc.

2.2. Activity Diagram

The Activity diagram illustrates the sequence of actions within a job portal system. Initially, users log in, granting access to the system. Upon successful login, they are directed to the home page. From there, users can search for available jobs and view detailed job listings. If interested, they can apply for a job or, if they are admin, post new job openings. Additionally, users can update their profile information as needed. Finally, when users are finished, they can log out of the system. This diagram captures the essential flow of interactions, facilitating smooth navigation and utilization of the job portal system.

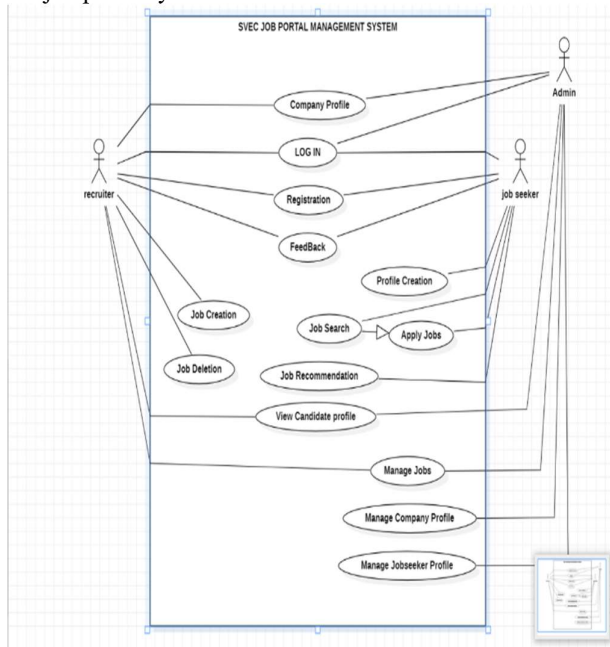


Fig. 1. Use Case Diagram

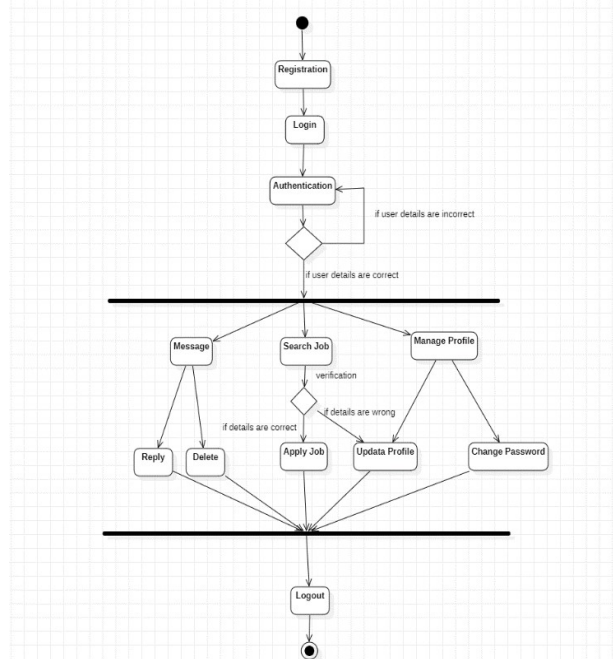


Fig. 2. Activity Diagram

2.3. System Architecture

The system architecture of the proposed platform revolves around a secure and modular design that seamlessly integrates the key functionalities of job posting and deletion, profile creation and updation for users, managing queries. The architecture begins with a user authentication module, ensuring that only authorized individuals, can access the platform. Admin allowed to post and delete the jobs, maintain the user's data, answering the queries of the users. For user's, the various jobs will be available in job search and according to the skillset, jobs will be refined and can cross-verify his details during application and can get list of job applications done by him. Users can we receive further updates about his application via email and sms. The heart of the architecture lies in the feedback system, where a designated section allows user's to clarify their doubts via email or through a chatbot.

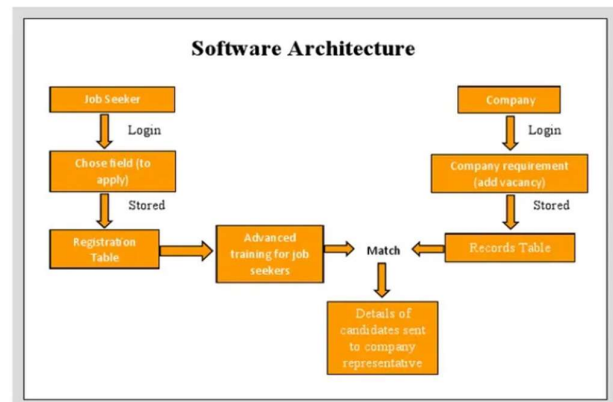


Fig.3. System Architecture

B. Subsystem Design of the System

The Subsystem design of the described platform involves breaking down the overall system architecture into distinct components, each responsible for specific function within the system.

1) User Authentication and Authorization Subsystem

This subsystem manages user authentication and authorization process, validates login credentials and grants access right based on user roles. Ensure only authorized teachers and students can access the platform.

2) Job Search and Filtering Subsystem

This subsystem focuses on enabling job seekers to search for relevant job listing. It includes features for filtering search results to match the preference and requirements of job seekers. Additionally, it may incorporate advanced search functionalities, such as sorting options and saved searches.

3) Job Posting Management Subsystem

This subsystem pertains to functionalities for employers to post new job openings, including job descriptions, requirements, and application instructions. It facilitates the management of posted jobs, allowing employers to edit, deactivate, or remove listings as needed.

4) Application Tracking and Status Update Subsystem

This subsystem provides real-time updates on the progress of applications, such as application received, under review, rejected, or shortlisted. Features may include application status notifications, email alerts, and dashboards for both job seekers and employers to monitor application statuses.

5) User Profile Subsystem

This subsystem encompasses features for users to create, update, and manage their profiles within the system. It allows job seekers to maintain their resumes, cover letters, and other relevant documents. Admin can manage their company profiles, including company information, branding assets, and contact details.

6) Chatbot Integration for Assistance subsystem

This subsystem involves integrating a chatbot feature within the system to provide assistance and support to users. The chatbot can answer frequently asked questions, provide guidance on using the platform, and assist with troubleshooting.

IV. THE SYSTEM FOCUSES ON ACHIEVING

1) User-Friendly Interface:

This system providing dedicated interfaces for users that are intuitive, responsive, and easy to navigate.

2) Optimizing Job Application Process:

Encompasses user-friendly application forms and crafting the intuitive interfaces aimed at guiding the users through the application process with utmost efficiency.

3) Feedback System:

Creating a feedback system that enables users to clarify their queries regarding the job application.

4) Data Management:

Implementing a database subsystem that effectively stores and retrieves data, including feedback information and user profiles.

5) Application Tracking and Status Updates:

Offering insight into the progression of job application for both users and employers. It encompasses real-time application tracking functionalities, timely notifications regarding application status updates.

V. METHODOLOGY

1. Conduct a thorough analysis of the current E-learning landscape and define clear project goals and objectives based on identified challenges.
2. Evaluate existing Job portals to identify strengths, weaknesses, opportunities, and threats. Analyze trends in industrial technology and user preferences.
3. Choose a robust technology stack, with a focus on the .NET Framework, ensuring scalability, security, and compatibility with modern job searching functionalities.
4. Implement dynamic customization features that allow students to request and personalize their courses.
5. Conduct rigorous testing to identify, resolve bugs or issues and perform usability testing to validate the effectiveness of customization features and administrator tools.

VI. EXPERIMENTAL RESULTS

In the wake of exploring the web interface, client or user needs to login and select the domain where he is interested to apply for a job and afterward the client will Uapproach the job search page where he can find different types of jobs related to that particular domain. After application of job the status of the job will be displayed.

FRONT-END:

User-side:

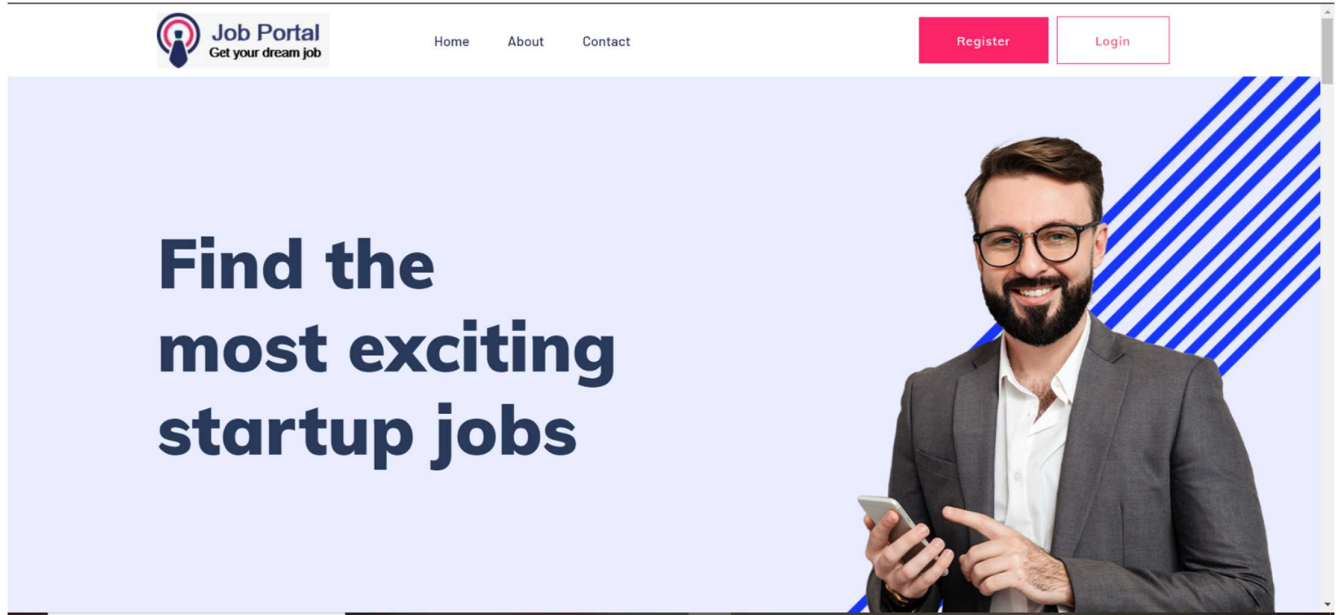


Fig 1 Interface of Proposed Model

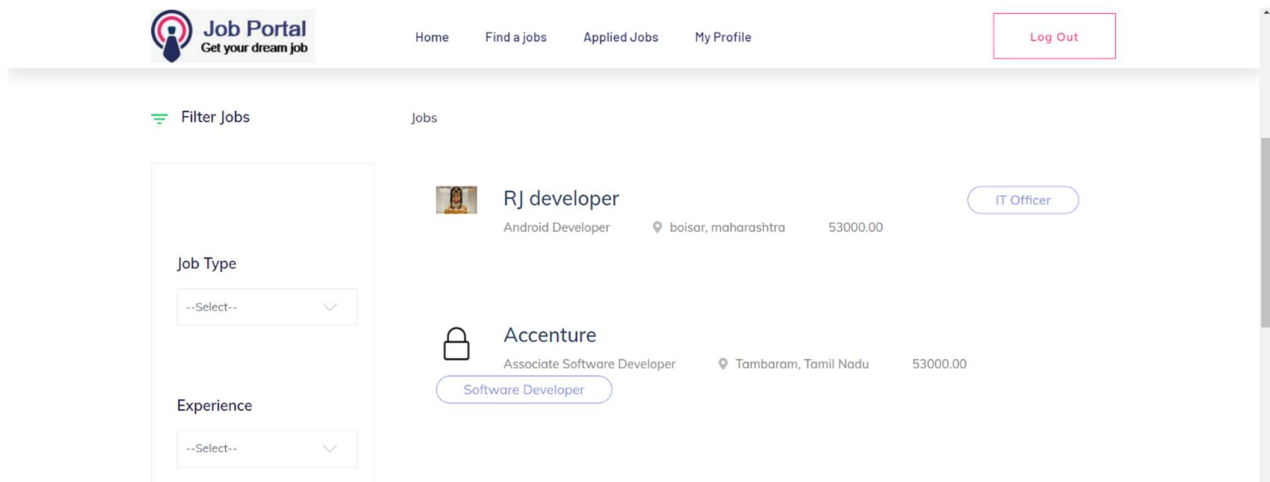


Fig 2 Jobs Search and filtration

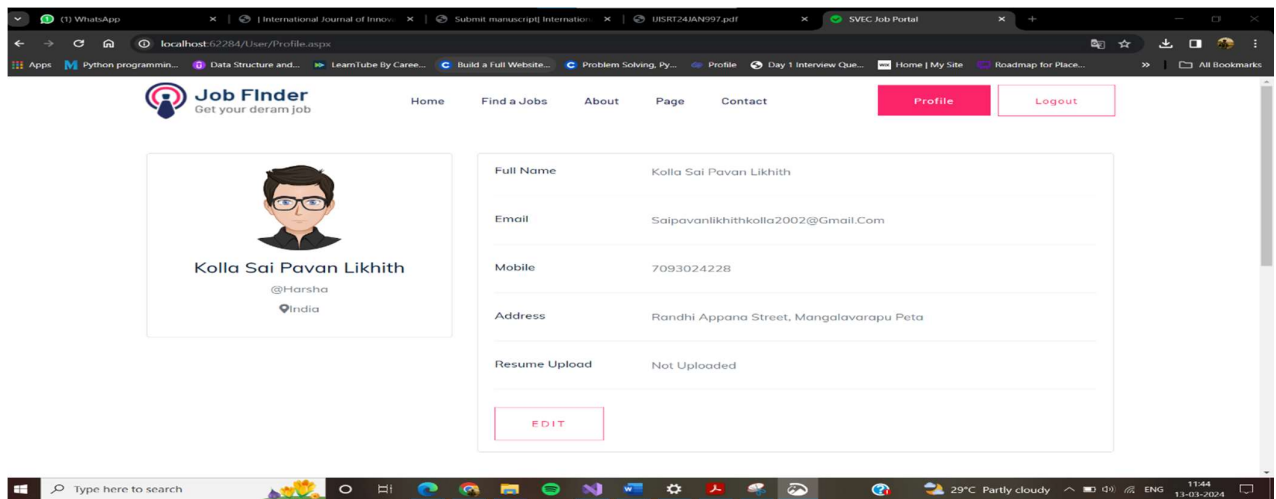


Fig 3 User Profile display and edit

Admin-side:

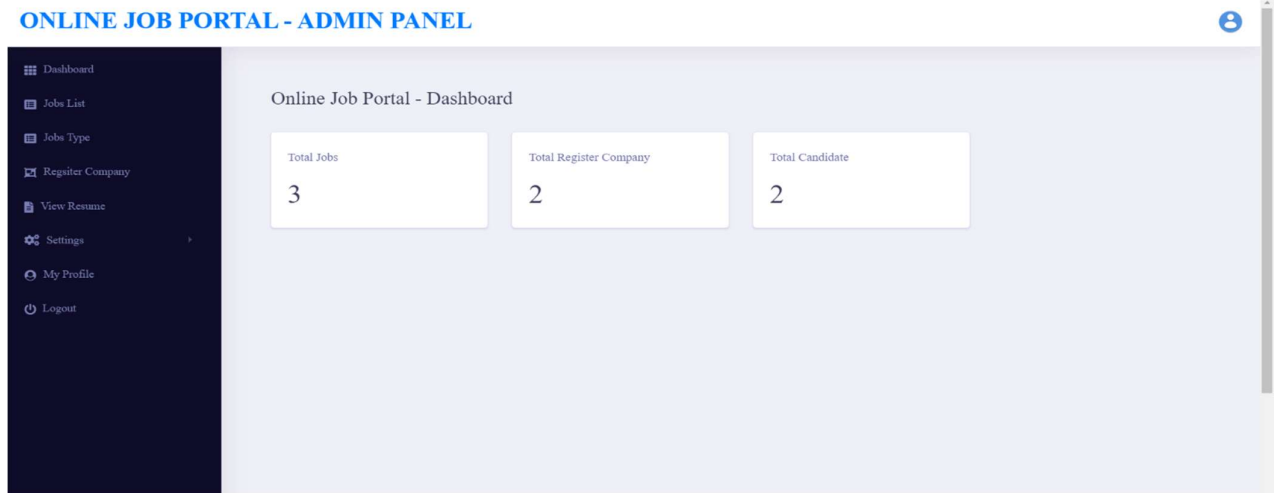


Fig 4 Admin Dashboard

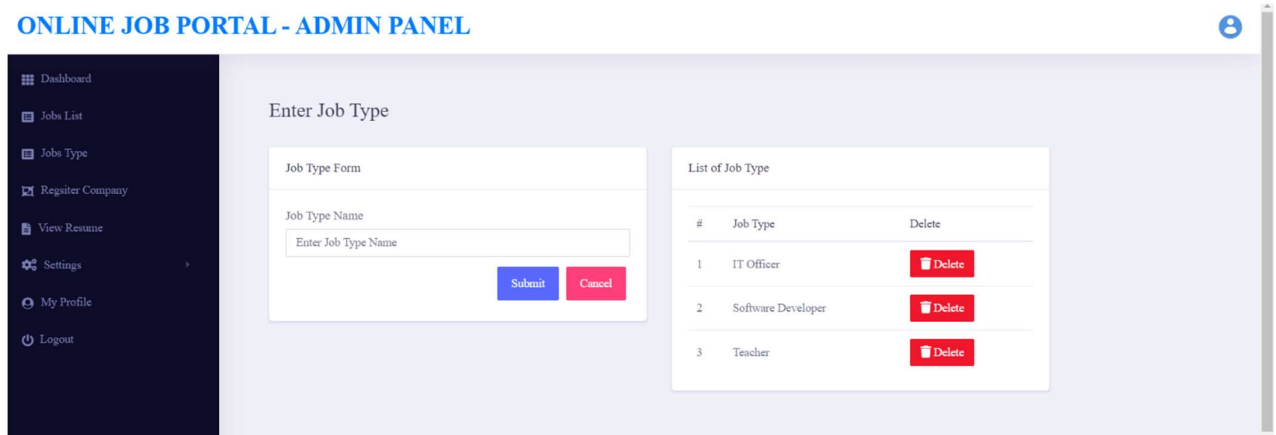


Fig 5 Adding various domains

ONLINE JOB PORTAL - ADMIN PANEL

The screenshot shows the Admin Panel interface. On the left is a dark sidebar with navigation options: Dashboard, Jobs List, Jobs Type, Regsiter Company, View Resume, Settings, My Profile, and Logout. The main content area is titled 'Regsiter Company' and contains a table with the following data:

#	Organisation Name	Organisation Website	Organisation Mail	Organisation Address	State	City	Pincode	Organisation Logo	Certificate Cooperation
1	RJ developer	www.rjdeveloper.com	admin@rjdeveloper.com	Boisar	maharashtra	boisar	401501		Certificate Cooperation
2	Accenture	www.accenture.com	accenture@gmail.com	Tambaram, Tamil Nadu, India	Tamil Nadu	Tambaram	453100		Certificate Cooperation

Fig 6 List of Companies

Company-side:

ONLINE JOB PORTAL - COMPANY PANEL

The screenshot shows the Company Panel interface. The sidebar on the left includes: Dashboard, New Jobs, Jobs List, Company Profile, Candidate List, and Logout. The main dashboard area is titled 'Online Job Portal - Dashboard' and features two summary cards:

- Total Jobs: 2
- Total Applied Jobs: 2

Fig 7 Company Dashboard

ONLINE JOB PORTAL - COMPANY PANEL

The screenshot shows the 'List Of Job Form' section. The sidebar is the same as in Fig 7. The main content area displays a table with the following data:

#	Job Title	Number of Post	Qualification	Experience	Last Date Apply	Specialization	Salary	Job Type
2	Associate Software Developer	12	B.Tech	0	02-05-2024	CSE	53000.00	Software Developer
3	Android Developer	12	BCA	2 months	25-04-2024	CSE	53000.00	Teacher

Fig 8 Company Job List

ONLINE JOB PORTAL - COMPANY PANEL

The screenshot shows the 'Adding Jobs' form. The sidebar is the same as in Fig 7. The form contains the following fields:

- Job Title:
- Number of Post:
- Description:
- Qualification / Education:
- Experience:
- Specialization:
- Last Date to Apply:
- Salary:
- Job Type:

At the bottom right, there are 'Submit' and 'Cancel' buttons.

Fig 9 Adding Jobs

BACK-END:

Jobs List Table:

Title	NoOfPost	Description	Qualification	Experience	Specialization	LastToDate	Salary	JobType	CompanyName	CompanyImage	Website	Email	Address	Cou
Web Developer	1000	Computer	B.Tech	Fresher	Computer Scien...	11-03-2024	3.5LPA	Full Time	EFFECTRONICS	Image/c0b1979...	https://electro...	effectronicsIndi...	Mangalagiri,Vij...	India

Users Table:

Username	Password	Name	Email	Mobile	TenthGrade	TwelfthGrade	GraduationGra...	PostGraduation...	Phd	WorksOn	Experience	Resume	Address	Cou
Harsha	Liki@535	Kolla Sai Pavan ...	saipavanlikhithk...	7093024228	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	Randhi appana ...	India
Sriharsha	123	Appana Pavan S...	20A81A0568@s...	6302932566	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	D.No:7-55, Gan...	India

VII. CONCLUSION

The Job Portal System offers a comprehensive solution to the challenges posed by the evolving job market. By embracing technology and incorporating user-friendly features, it facilitates efficient communication between employers and job seekers. The chatbot integration and application tracking mechanisms enhance the overall experience, making the recruitment process smoother and more transparent.

VIII. ACKNOWLEDGEMENTS

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IX. REFERENCES

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