Employment Automation System

Archa Lal S[1] and Dr Sajeev J[2]

Student, IV Semester, MCA[1]

Associate Professor and Head, Department of Computer Applications[2]

Sree Narayana Institute of Technology, Kollam, Kerala, India

sajeevjaladharan@gmail.com[1] and archa0002@gmail.com[2]

Abstract: *Employment Automation System is a perfect way to make the Employment Exchange process through the web. This system consists of Department admin, he can have the ability to add the employers into the system. Employees can externally register to the system with all his/her qualification details including certificate upload. Employees can get the access to the system only after the verification by the department admin, after the verification he/she will get the login feature. In the dashboard he can know his priority status, among other employees. An Employment Automation System is a software or technological solution designed to streamline and automate various aspects of the employment process. This system can be used by both employers and job seekers to enhance efficiency, reduce manual efforts, and improve the overall hiring and job -seeking experience. The system typically consists of various modules that cater to different stages of the employment lifecycle. . The website may utilize various technologies and frameworks, such as Angular ,HTML, CSS, JavaScript, and server- side languages, to create a seamless and engaging user experience.*

Keywords: HTML, CSS, Javascript

I. INTRODUCTION

An Employment Automation System is a software or technological solution designed to streamline and automate various aspects of the employment process. This system can be used by both employers and job seekers to enhance efficiency, reduce manual efforts, and improve the overall hiring and job-seeking experience. The system typically consists of various modules that cater to different stages of the employment lifecycle. Here are some key components and functionalities that may be included in such a system :Job Postings: Employers can create and manage job postings, specifying the job title, description, requirements, and other relevant details.

Application Management: The system allows job seekers to search for relevant job openings and submit their applications online.

Interview Scheduling: The system may offer interview scheduling capabilities, allowing employers to coordinate interviews with shortlisted candidates through notifications. Employment automation systems can help organizations save time and money by reducing the amount of manual labor required to complete these tasks. To ensure data security and compliance with privacy regulations, the Employment Automation System will implement robust encryption measures and access controls. Additionally, the system will be designed with a user-friendly interface, making it easy for both employers and job seekers to navigate and utilize its functionalities efficiently.

There are mainly five modules:

1. Admin
2. Employment
3. Organization
4. Student
5. Bank

In this paper, we have 5 logins such as for Admin, Employment, organization, Student and Bank .The Admin module allows to approve or reject users, enables admin scheme add, bank add, job fare add etc. The Employment is the other module of the project. The Employment can add guidance class, they do priority checking, vacancies passess to student, can download student scheme certificate, can see the students whose renewed, can chat with students. The Organization

is the other module of the project. The Employment can add job, interview date adding, download resume from students, employment can select students who are qualified for that job, upload interview letters, can upload appointment letter. The Student is the other module of the project. the student can view job and apply for that, upload their resume for that job, can chat with student, can uipload certificate for scheme, can view guidance class, renew their certificate, and renew them as well as and can apply for loan. . . The Bank is the other module of the project. The loan can add loan scheme and view the student who applied for loan, give the students the loan amount who are certified and verified ,and give noc who are completed the loan amount ,issue the repayment notification. The web application 'EMPLOYMENT AUTOMATION SYSTEM' supports the technical feasibility to a great extends. That is, this web application can be operated with the minimum technical support. It uses Angular as front end, MYSQL as data base. And also it provides accuracy, reliability, ease of access and data security.

II. METHODOLOGY

To accomplish the objective , a systematic process was followed .The research process begins with the identification of the research topic (Employment Automation System) where studies was carried out to obtain enough information on the topic.In addition to this numerous interviews with different Student, Employment, Organization and Bank were conducted to gather more information on their daily operations and on the methods and features required in the Employment Automation System system web portal. To create the employment automation system website, we begin by gathering detailed requirements for each module, understanding the specific needs and interactions for administrators, students, employers, organizations, and banking features. Once requirements are clear, we move on to designing a comprehensive system that includes user interfaces, data flows, and integration points, ensuring a cohesive experience across all modules. 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

An existing system for employment automation could refer to various types of software or platforms designed to streamline and automate different aspects of the employment process. Here's a general overview of some common components you might find in such a system: Priority based selection is not implemented, Self employment scheme is not fully automated, .Candidate never get the is no proper knowledge about vacancies, The candidate wants to update their details the should visit the e-employment exchange

The proposed system improved version of the website aims to address these shortcoming .The new version will have a more advanced for priority based selection is done so there is no mal functionalities is done ,Candidate will get proper knowledge about the vacancies ,the candidate don' t needed to visit the employment office4 if they want to renew their certificate or update, the unemployment student can get different loan .

A) Limitations of the Existing System
- Priority based selection is not implemented
- Self employment scheme is not fully automated
- .Online based Admit card is not done
- Candidate never get the is no proper knowledge about vacancies
- There is no loan schemes for unemployment candidate above age 30
- The candidate wants to update their details the should visit the e-employment exchange
- To overcome the drawbacks on the existing system a new system has to be implemented. In the proposed system.

B) Advantages and Features of the Proposed System
- Priority based selection is implemented
- Self employment scheme is fully automated

- .Online based Admit card is done
- Candidate never get the is proper knowledge about vacancies
- There is loan schemes for unemployment candidate above age 30
- The candidate wants to update their details online

IV. BACKGROUND

Technologies used in this Project:

[1] Angular is a JavaScript-based open-source front-end web framework mainly maintained by Google and by a community of individuals and corporations to address many of the challenges encountered in developing single page applications.HTML is a very easy and simple language. HTML can be easily understood and modified. It is very easy to make an effective presentation with[2] HTML. It is a markup language, so it provides a flexible way to design web pages along with the text. CodeIgniter is an open-source software rapid development web framework, for use in building dynamic web sites with PHP. MySQL is an open source, SQL Relational Database Management System (RDBMS) that is free for many uses.

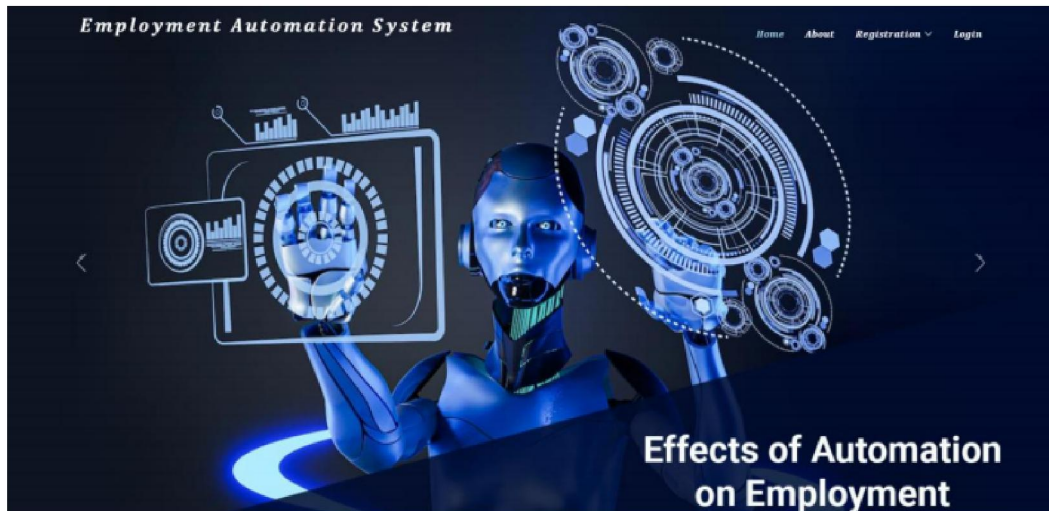## V. RESULTS AND DISCUSSIONS

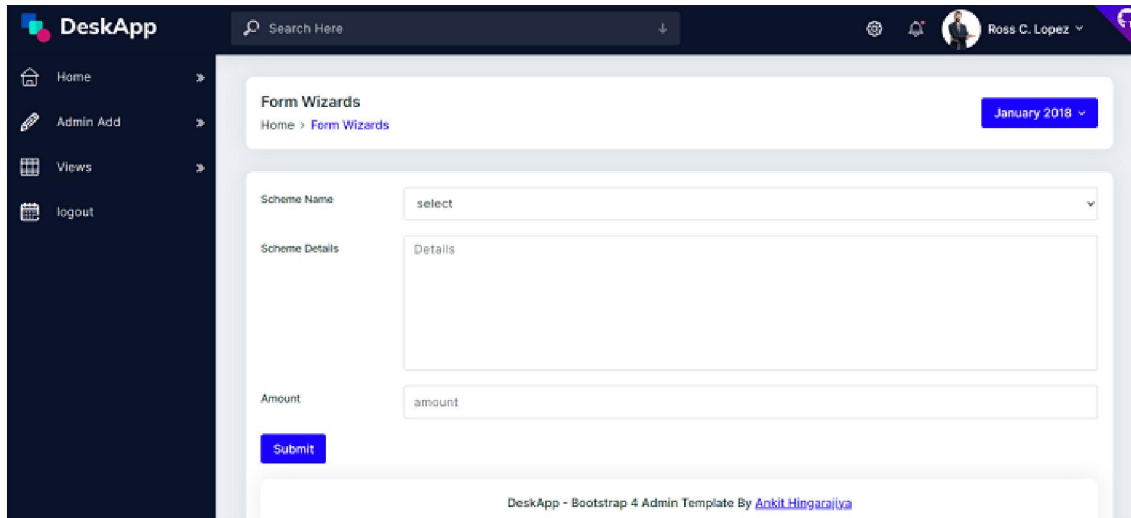Figure 1: Homeage

Figure 2: Registration Page
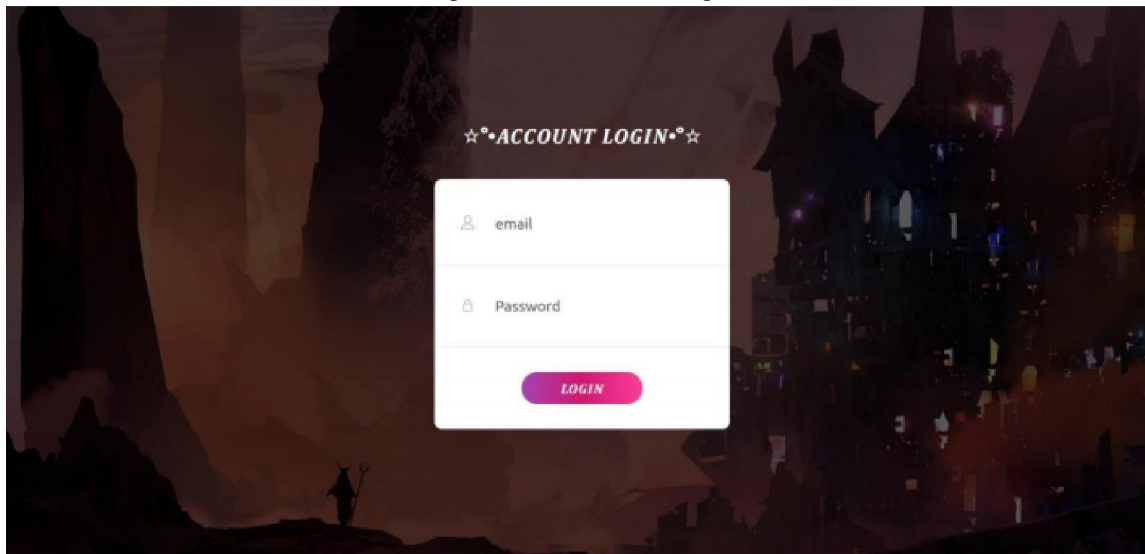
Figure 3: Admin View Page

Figure 4: Login Page

VI. CONCLUSION

An employment automation system can streamline the recruitment process and improve the overall efficiency of the HR department. By automating tasks such as resume screening, applicant tracking, and interview scheduling, companies can save time and resources, and reduce the risk of human error. Additionally, an employment automation system can help HR teams to maintain better communication with candidates throughout the hiring process, providing a positive candidate experience and improving the employer brand. However, it's important to note that an employment automation system is not a silver bullet and should not be relied upon solely for recruitment. Human involvement and judgment are still crucial for making informed hiring decisions, and an automated system should be used as a tool to support and enhance the recruitment process. Overall, an employment automation system can be a valuable asset for any company looking to streamline their recruitment process and improve their HR operations.

In the future, the employment automation system could be further enhanced by integrating advanced AI capabilities, enabling smarter candidate matching and personalized job recommendations. Additionally, incorporating blockchain technology could provide heightened security and transparency for sensitive employee data, while expanding the system's capabilities to offer virtual reality-based training modules could elevate onboarding and skill development experiences. Further improvements may involve creating a more seamless mobile app interface, supporting remote

work arrangements, and leveraging predictive analytics to anticipate workforce trends and optimize talent management strategies. Continuously refining user interfaces, enhancing data analytics for more informed decision-making, and incorporating chatbots for instant employee support are also potential enhancements to ensure the system's long-term effectiveness and adaptability.

REFERENCES

[1] Angular Tutorial View at : http://youtube.be/k5E2AVpwsko

[2] HTML Tutorial View at: http://youtube.be/qz0aGYrrlhU

[3] Employment Automation View at: https://ca.indeed.com/career-advice/careerdevelopment/what-is-workplace-automation

Copyright to IJARSCT
www.ijarsct.co.in

DOI: 10.48175/IJARSCT-12939

216

ISSN
2581-9429
IJARSCT