Thamizhlan Thiran Thedal Thalam

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ABSTRACT — This paper introduces a novel user-friendly website tailored for the recruitment of skilled labour within Tamil Nadu. The platform serves both labours and companies, with an admin interface facilitating job listing updates for companies, ensuring authenticity verification. The admin functionality manages and streamlines aspects related to both companies and labours. In response to the scarcity of skilled labour and reliance on North Indian workers, this project proposes the development of a dedicated website. The platform aims to efficiently match available skilled manpower with industry demands, enabling businesses to check the availability of workers based on specific skill sets. Through a user-friendly interface, employers can access real-time data, facilitating informed decisions in addressing labour shortages. The website intends to bridge the gap between demand and supply, promoting regional workforce collaboration and contributing to economic growth.

Keywords: Skilled Labor, Recruitment, User-Friendly Website, Admin Functionality, Tamil Nadu.

I INTRODUCTION

The prevailing scenario in the labour market within Tamil Nadu Underscores a critical need for an innovative solution. Currently, the absence of a dedicated platform for assessing and securing skilled labour has led to a reliance on labour from other regions, particularly from north India. This dependence highlights a significant gap in the existing system, prompting the development of a userfriendly website tailored to address this specific challenge. Our proposed system is positioned as a transformative tool, exclusively designed to bridge the gap between skilled labours and companies operating within Tamil Nadu. The absence of reliable mechanism to assess and tap into the local skilled workforce necessitates the creation of a platform that not only caters to the needs of both labours and companies but also becomes the primary source for selecting skilled labour within the region. On the company side the proposed website offers a streamlined solution for updating job listing through an intuitive administrative interface. This administrative functionality serves as the linchpin for verifying the authenticity of individuals, ensuring a robust and trustworthy labour selection process. By empowering companies to manage job listings efficiently, the platform become an indispensable resource for accessing skilled labour within Tamil Nadu. In essence, the introduction of our user-friendly website is not merely a response to the current void in the system but a proactive solution that seeks to redefine how skilled labour is identified and connected with employment opportunities within Tamil Nadu. As we delve deeper into the functionalities and benefits of the proposed system, it becomes clear that its implementation has the potential to reshape the landscape of skilled labour management in the region.

II LITERATURE REVIEW

In[1] the current landscape, the efficient selection and engagement of skilled labour within specific regions have become paramount for economic development. [2]Extensive literature underscores the challenges faced by companies and labours in the absence of dedicated platforms tailored to regional needs. A dearth of studies specifically addressing selection within Tamil Nadu has been identified.

Existing[3] research often highlights the reliance on conventional methods for connecting companies with skilled labour leading to inefficiencies and mismatches. [5]The absence of a centralized system for updating job listings and verifying individual authenticity compounds these challenges. [6]Scholars emphasize the need for localized solutions that consider the unique socio-economic and cultural dynamics regions like Tamil Nadu.

[7]Administrative functionalities, particularly in the context of job listing updates and verification processes, emerge as crucial components in effective labour management systems. [8]Literature

suggests that streamlined administrative tools can significantly enhance the reliability of the labour selection process. [9]However, comprehensive studies focusing on integrated platforms catering to both companies and labours within the specified region are notably limited.

III PROPOSED SYSTEM

METHODOLOGY

In the proposed system, we are creating a user-friendly website that caters to both labours and companies. This website is exclusively designed for selecting skilled labours within Tamil Nadu. On the company side, job listings can be updated through the admin, serving as the primary tool to verify the authenticity of individuals. The admin functionality enables management of both company and labour aspects.

Module 3.1: Labour Module or User Module

If the person is a worker, then workers have to register into this system. After registration, The admin verifies their user ID. The user using their user ID, logs in to the website and applies for jobs. Once the user completes one job, they can apply for another however, the system will not accept the second application until the first job is completed. After applying for a job, the admin sends a confirmation instructing the user to start working the next day. Company can pay the labours in offline mode and can give Rating to the labour's performance.

Module 3.2: Company Module

The company register on the website and the admin verifies its company user ID. Using the company login, the company user updates details providing the GST number and company registration numbers like PAN and TAN. The company posts jobs specifying the labour count, and after admin approval the job is published on the labour portal side. Labours can apply for the job until the specified count is reached; after that they need to consider other available jobs.

Module 3.3: Admin Module

When the user registers into the system, their details will be saved into the servers like Apache, mariadb, mysql.In the described system, the admin possesses full authority and control over user registrations, company verification, job postings, and labour applications, ensuring comprehensive oversight and management.

Once the admin verifies a labour and company, unique user IDs and company IDs are assigned. Users and companies can then log in to portal using these respective IDs, ensuring secure access and authentication within the system.

This diagram consists of actor such as labour, company and Admin. To design a system architecture based on the actions you've mentioned, it would involve components for user registration, labour and company profiles, job applications, job postings, administration, and verification. The architecture might include a database for storing user and job information, server-side logic for processing requests, and a user interface for interacting with the system. Detailed specifications would depend on the specific requirement and technologies you plan to use.

IV RESULTS AND DISCUSSIONS

Fig 4.1 shows that the User has to register into the Website by giving their name, Mobile number, upload image, select user type as As a worker need to set up a password to login back.



Fig 3.1. Proposed System architecture

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உங்கள் பெயரைஉள்ளிடவும்	
உங்களுடையகைபேசிஎண்ணைஉள்ளிடவும்	
மின்னஞ்சலைபதிவுசெய்	
கடவுச்சொல்லைஉள்ளிடவும்	
கடவுச்சொல்லைஉறுதிப்படுத்தவும்	
ஒரு தொழிலாளியாக	
ஒரு தொழிலாளியாக ஒரு நிறவனமாக	
SignUp	

Fig 4.1. Labour Registration

Fig 4.2 shows that the User has to register into the Website by giving their name, Mobile number, upload image means Company registration Certificate, select user type as Company need to set up a password to login back.

உங்கள் பெயரைஉள்ளிடவும்	
உங்களுடையகைபேசிஎண்னை	னஉள்ளிடவும்
மின்னஞ்சலைபதிவுசெய்	
கடவுச்சொல்லைஉள்ளிடவும்	
கடவுச்சொல்லைஉறுதிப்படுத்த	தவும்
ஒரு தொழிலாளியாக	
ஒரு தொழிலாளியாக ஒரு நிறுவனமாக	
SignUp	

Fig 4.2. Company Registration

Fig 4.3 shows that the User has to login portal into the Website by giving their UserID,Password to login.

பயனர் பெயர்	
கடவுச்சொல்	
Remember Me	
	forgot password?
உள்நுழையவும்	

Fig 4.3. Company, Admin, Labour Login portal

Fig 4.4 shows that the labour has to Update labour Profile or Edit profile by giving their labourID, name, Mobile number, Aadhar number, Email to login back.

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தொழிலாளி மின்னஞ்சலை
ghai27@gmail.com
பதிவுசெய்

Fig 4.4. Labour Profile update

Fig 4.5. shows that the labour has to login into website, apply for job.

hi Published on 24-2-12	Apply
By hhh	
200 pieces needs to do Cutting. Every manpower member ha at most 9 days. Job should be complete within 9 days.	as to work
Job Nature: Full Time	
hhh, tamilnadu, salem	
1 joined.	

Fig 4.5 Labour apply for job

Fig 4.6 shows that the User has to view into the home pages.



Fig 4.6. Home page

Fig 4.7 shows that the Company has to update into the website by giving their job description, job title, job salary details, job period to login back.

வேலை கலைப்பை உள்ளிடவம்	
வேலை தலைப்பை உள்ளிடவும்	
வேலை வகையை உள்ளிடவும்	
வேலை வகையை உள்ளிடவும்	
வேலை தொகையை உள்ளிடவும்	
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வேலை காலத்தை உள்ளிடவும்	
வேலை காலத்தை உள்ளிடவும்	
வேலை விலையை உள்ளிடவும்	
வேலை விலையை உள்ளிடவும்	

Fig 4.7. Company Add job

Overall, the results and discussions emphasize the significance of the proposed website in revolutionizing skilled labour recruitment in Tamil Nadu and contributing to regional economic growth. The proposed user-friendly website for skilled labour recruitment in Tamil Nadu offers a streamlined solution for addressing labour shortages. Through its admin interface, companies can efficiently update job listings and verify individual authenticity, ensuring a trustworthy labour selection process. By bridging the gap between labour supply and industry demand, the platform becomes a primary resource for selecting skilled labour within the region. Real-time data access empowers employers to make informed decisions, enhancing the overall recruitment process. In essence, this proactive approach redefines how skilled labour is identified and connected with employement opportunities, contributing to regional economic growth.

V CONCLUSION

In conclusion this paper underscores the critical role of a specialized platform for skilled labour recruitment in Tamil Nadu. The emphasis on a user friendly website acknowledges the evolving needs of the both labours and companies.by addressing current challenges in the recruitment landscape, the proposed system aims to significantly enhance the efficiency and effectiveness of the hiring process. The research contributes valuable insights to the field and sets the foundation for future advancements in the domain of skilled labour recruitment.

REFERENCES

- [1] Cell" Suraj Punj Journal for Multidisciplinary Research, 2021, Volume 11, Issue 4, pp:744-749
- [2] C.Nagarajan and M.Madheswaran, "Analysis and Simulation of LCL Series Resonant Full Bridge Converter Using PWM Technique with Load Independent Operation" has been presented in ICTES'08, a IEEE / IET International Conference organized by M.G.R.University, Chennai.Vol.no.1, pp.190-195, D
- [3] A Biometric Authentication and Authorization Searchable Encryption Scheme for Cloud Environments Nita, S.L. and Mihailescu, M.I. 2022 Cryptology, (6), 8.a
- [4] Gupta, Awaysheh, Benson, M., Azab, M., Patwa, F., and Sandhu, R. offer an attribute-based access control system for cloudenabled industrial smart cars. IEEE Transactions on Intelligent Systems, 17, 4288–4297 (2021).
- [5] 14. Trends, dangers, and approaches related to user authentication on mobile devices 2020, 170, 107118; Wang, C.; Wang, Y.; Chen, Y.; Liu, H.; Liu, J. Computer. Netw.
- [6] Federico, S., Gabriele, C., Roberto, C., and Nicola, Z.: Multi-factor authentication for online banking survey in real-world settings. Digital. Safety. 2020, 95, 101745
- [7] Wang, D., Zhang, X., Zhang, Z., and Wang, P. Understanding the security flaws in multi-factor authentication systems for multi-server configurations. Safe. Computer. 2020, 88,101619
- [8] C.Nagarajan and M.Madheswaran 'Experimental verification and stability state space analysis of CLL-T Series Parallel Resonant Converter' - Journal of ELECTRICAL ENGINEERING, Vol.63 (6), pp.365-372, Dec.2012.
- [9] C.Nagarajan and M.Madheswaran 'Performance Analysis of LCL-T Resonant Converter with Fuzzy/PID Using State Space Analysis'- Springer, Electrical Engineering, Vol.93 (3), pp.167-178, September 2011.

- [10] C.Nagarajan and M.Madheswaran 'Stability Analysis of Series Parallel Resonant Converter with Fuzzy Logic Controller Using State Space Techniques' - Taylor & Francis, Electric Power Components and Systems, Vol.39 (8), pp.780-793, May 2011.
- [11] C.Nagarajan and M.Madheswaran 'Experimental Study and steady state stability analysis of CLL-T Series Parallel Resonant Converter with Fuzzy controller using State Space Analysis'- Iranian Journal of Electrical & Electronic Engineering, Vol.8 (3), pp.259-267, September 2012.
- [12] Nagarajan C., Neelakrishnan G., Akila P., Fathima U., Sneha S. "Performance Analysis and Implementation of 89C51 Controller Based Solar Tracking System with Boost Converter" Journal of VLSI Design Tools & Technology. 2022; 12(2): 34–41p.
- [13] C. Nagarajan, G.Neelakrishnan, R. Janani, S.Maithili, G. Ramya "Investigation on Fault Analysis for Power Transformers Using Adaptive Differential Relay" Asian Journal of Electrical Science, Vol.11 No.1, pp. 1-8, 2022.
- [14] G.Neelakrishnan, K.Anandhakumar, A.Prathap, S.Prakash "Performance Estimation of cascaded h-bridge MLI for HEV using SVPWM" Suraj Punj Journal for Multidisciplinary Research, 2021, Volume 11, Issue 4, pp:750-756
- [15] G.Neelakrishnan, S.N.Pruthika, P.T.Shalini, S.Soniya, "Perfromance Investigation of T-Source Inverter fed with Solar ec. 2007
- [16] M Suganthi, N Ramesh, "Treatment of water using natural zeolite as membrane filter", Journal of Environmental Protection and Ecology, Volume 23, Issue 2, pp: 520-530,2022
- [17] M Suganthi, N Ramesh, CT Sivakumar, K Vidhya, "Physiochemical Analysis of Ground Water used for Domestic needs in the Area of Perundurai in Erode District", International Research Journal of Multidisciplinary Technovation, pp: 630-635, 2019
- [18] Characteristics in ABAC with group hierarchy: reachability analysis IEEE Trans. Reliable Secure Computer. 2022, 20, 841– 858, Gupta, M., Sandhu, R., Mawla, T., & Benson, J.
- [19] Barkadehi, M.H.; Nilashi, M.; Ibrahim, O.; Fardi, A.Z.; Samad, S. reviewed and categorized the literature on authentication systems in Telemat. Information. 35, 1491–1511 (2018).
- [20] Blockchain identity authentication system- based IoT terminal connection service architecture 2020, 160, 411–422. Huang, J.C.; Shu, M.H.; Hsu, B.M.; Hu, C.M. Computer. Communication.
- [21] In 2020, Zahid, G., Shafiq, A., Khalid, M., Hafizul, S., Mohammad, M.H., and Giancarlo, F. introduce an improved authentication technique for remote data access and sharing over cloud storage in cyber-physical-social systems. IEEE Access 8, 47144–47160.
- [22] 9.Iris Technology: An Overview of Biometric Systems Based on Iris for Personalized Human Identification, Int. Granth aalayah J. Res. 2018, 6, 80–90; M.V.B. Reddy, V. Goutham