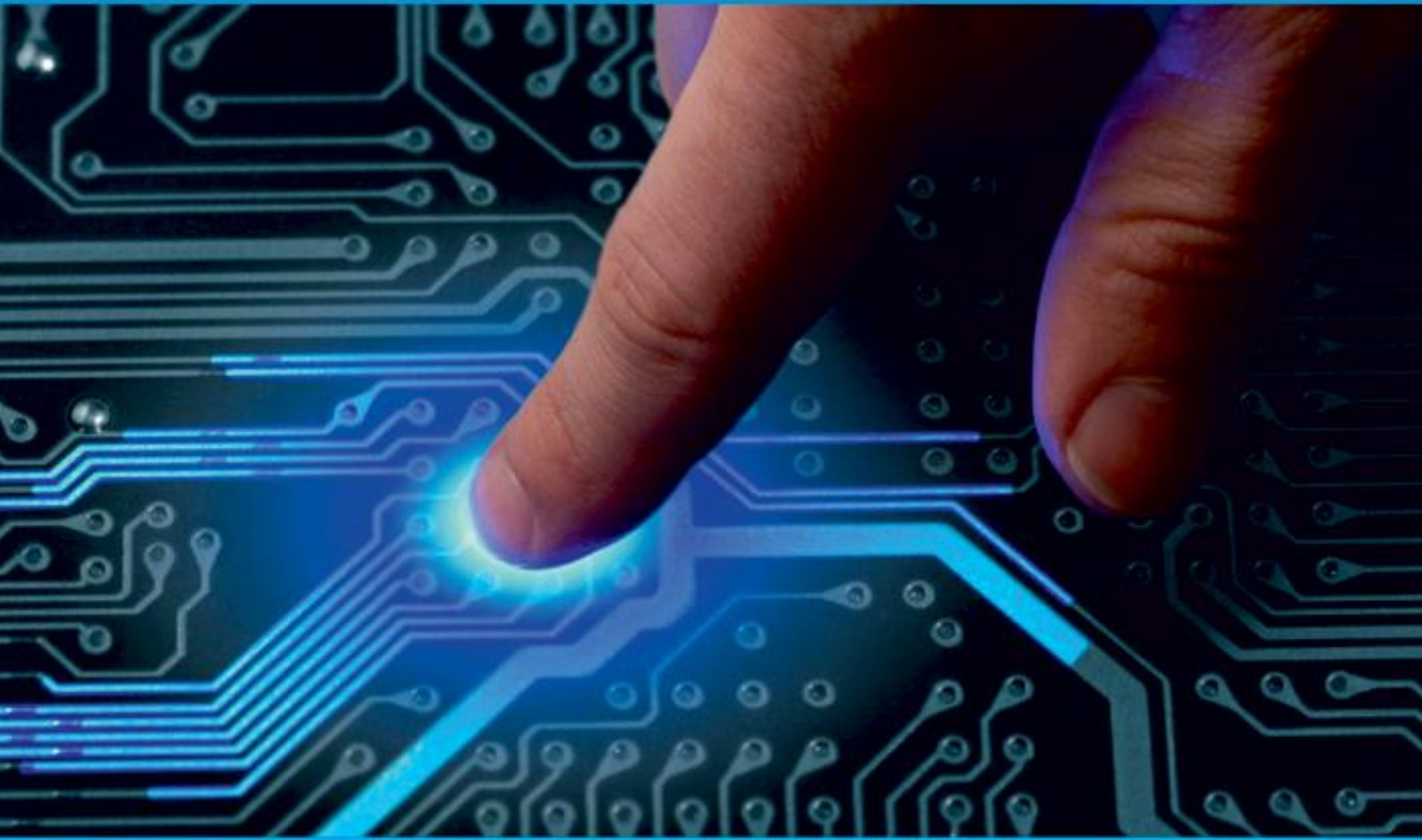




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Direct Hire

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ABSTRACT: Direct Hire is an innovative web application designed to facilitate direct engagement between employers and workers in various household service domains. Developed using Python Django framework, Direct Hire eliminates the need for intermediaries, providing clients with a streamlined process to select suitable workers for their household tasks. The application offers a user-friendly interface where clients can easily browse through profiles of registered workers and select the most appropriate candidate based on their skills and experience. Workers, on the other hand, can register on the platform and showcase their expertise in areas such as painting, agriculture, plumbing, cleaning, washing, and more. Direct Hire ensures transparency and efficiency in the recruitment process by allowing clients to directly communicate with potential workers, negotiate terms, and finalize agreements without any intermediaries. This direct connection fosters trust and accountability between both parties, enhancing the overall user experience.

KEYWORDS: Interaction, chat, rating, hiring, authenticity

I. INTRODUCTION

Direct Hire is a pioneering web application meticulously crafted using the Python Django framework, aimed at revolutionizing the recruitment process in household services. With a commitment to efficiency, transparency, and user empowerment, Direct Hire eliminates intermediaries, providing a direct conduit between employers and workers.

Innovative Approach: Direct Hire streamlines the hiring process by offering a seamless interface where clients can effortlessly browse through profiles of registered workers. This innovative approach allows clients to select the most suitable candidates based on their skills and experience without the need for intermediaries.

Empowering Workers: Workers are empowered to showcase their expertise by creating detailed profiles highlighting their skills, experience, and availability. This enables them to directly connect with potential employers, negotiate terms, and secure engagements that align with their capabilities.

Transparency and Trust: Direct Hire fosters transparency and trust by facilitating direct communication between clients and workers. Through the platform, they can discuss job requirements, negotiate terms, and finalize agreements, promoting accountability and fostering lasting relationships.

Key Features: The platform offers a range of features including a client dashboard for easy worker search, direct communication channels, task management tools, and a robust rating and feedback system. These features ensure a seamless and efficient experience for both employers and workers

II. RELATED WORK

Dependence on Middlemen: In the traditional household service hiring system clients heavily rely on intermediaries, such as agencies, to facilitate the hiring process. These middlemen act as intermediaries between clients and workers, handling tasks such as worker selection, task assignment, and communication. However, this dependence on middlemen introduces several challenges:

Higher Costs: Clients often incur additional fees when hiring through agencies, as these intermediaries charge service fees for their matchmaking and coordination services. These extra costs can make household services more expensive for clients.

Limited Control: Clients have limited control over the selection process when relying on intermediaries. Agencies may prioritize their own interests or may not accurately match clients with suitable workers, leading to mismatches or dissatisfaction.

Communication Barriers: Middlemen can create communication barriers between clients and workers. Clients may need to communicate their requirements through the agency, leading to delays or misunderstandings in the hiring process.

Reduced Flexibility: Clients may face restrictions imposed by intermediaries regarding the terms of service, such as scheduling and payment arrangements. This lack of flexibility can limit clients' ability to tailor services to their specific needs.

Limited Access to Information: Another significant drawback of the traditional household service hiring system is the limited access to information for both clients and workers

Worker Information: Clients may have limited access to information about workers' backgrounds, skills, and experience. Without comprehensive profiles or transparent information, clients may struggle to make informed decisions when selecting workers.

Client Information: Workers may have limited access to information about potential job opportunities. They may rely solely on agencies or informal networks for job leads, which can limit their ability to find suitable employment opportunities.

Limited Job Opportunities: For workers, the traditional hiring system may result in limited job opportunities due to several factors

Dependency on Agencies: Workers may rely solely on agencies or word-of-mouth referrals to find job opportunities. This dependency can restrict their access to a broader range of potential clients and opportunities.

Limited Visibility: Without a centralized platform or database showcasing their skills and expertise, workers may struggle to attract clients or differentiate themselves from competitors. This lack of visibility can hinder their ability to secure job opportunities.

Limited Accountability: Traditional hiring system may lack mechanisms for Accountability and Transparency

Accountability of Middlemen: Intermediaries may not always act in the best interests of both clients and workers. Clients may face challenges in holding agencies accountable for mismatches, delays, or poor service quality.

Quality Assurance: Without transparent feedback mechanisms or accountability measures, there may be limited incentives for workers to deliver high-quality services consistently. This lack of accountability can lead to varying levels of service quality and customer satisfaction.

III. METHODOLOGY

1. TECHNOLOGY SELECTION AND FRAMEWORK DEVELOPMENT:

- Select Python Django framework for its robustness, scalability, and compatibility with web application development.
- Develop the application architecture, database schema, and backend functionalities using Python Django framework.

2. PROFILE REGISTRATION AND VERIFICATION:

- Implement a user registration system for both employers and workers.
- Integrate a verification mechanism to ensure the authenticity and credibility of user profiles.

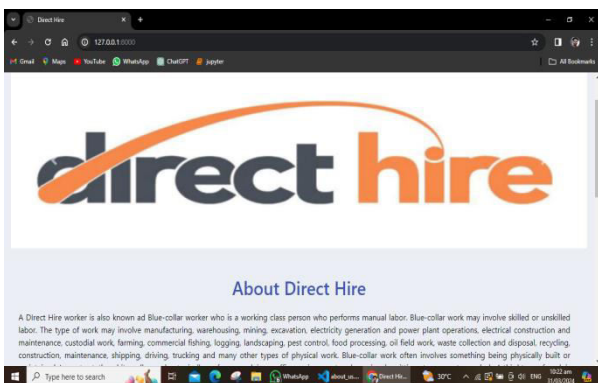
3. PROFILE CREATION AND SKILL SHOWCASE:

- Design user-friendly profile creation forms for workers to showcase their expertise and experience in household service domains.

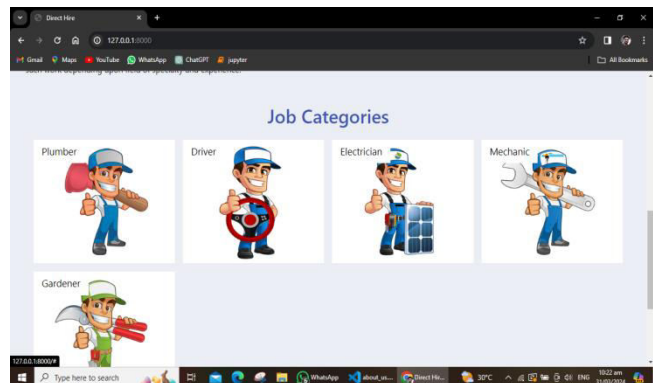
- Enable workers to upload relevant documents, certifications, and portfolios to validate their skills.
- 4. SEARCH AND FILTER FUNCTIONALITY:**
- Develop a robust search and filter mechanism to allow clients to easily browse through profiles of registered workers.
 - Implement filters based on skills, experience, location, availability, and other relevant criteria.
- 5. DIRECT COMMUNICATION AND NEGOTIATION:**
- Integrate messaging functionalities to facilitate direct communication between clients and workers.
 - Enable negotiation features for clients and workers to discuss terms, conditions, and remuneration directly within the platform.
- 6. TRANSPARENCY AND TRUST BUILDING:**
- Implement features to ensure transparency in the recruitment process, such as displaying reviews and ratings for workers.
 - Incorporate user feedback mechanisms to gather reviews and ratings from clients about their experience with hired workers.

IV. EXPERIMENTAL RESULTS

Figures shows the out putresults of the website Figs. 2, 3, 4 (a& b) shows the home page

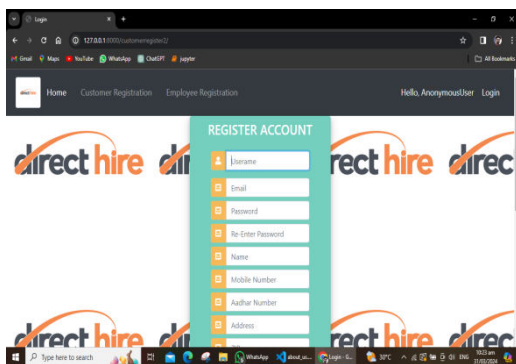


(a)

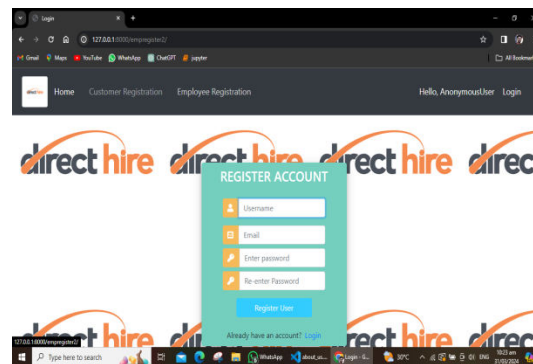


(b)

Fig (c) shows the customer registration page and fig (d) shows the employee registration page

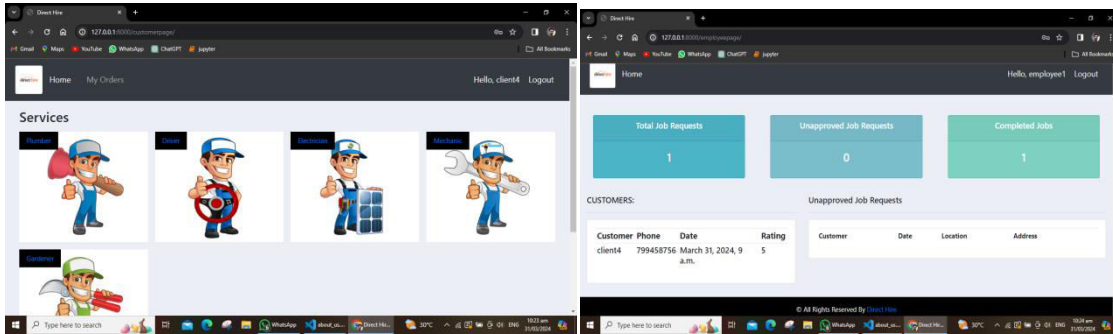


(c)



(d)

Fig (e) shows the service page and fig (f) shows the employee home page



(e)

(f)

V. CONCLUSION

Based on our tests, we can say that we have achieved our goal of developing a prototype system for air drums, usable by beginner drummers and at a very low monetary cost. The use of color based detection for real-time detection is simplistic, but due to its speed it is thus viable for the goal of gaining the fastest hits per minute possible in real time. We are able to achieve an estimate 513 hits per minute for the triggering of the drum pads. The conversion of the current code base to C++ is something to be explored in making the code run faster, and thus increase our hits per minute. Further refinement of the algorithms used for whether a drum pad was hit or not, along with the knee movement detection is something that is also needed to be done. As our tests show, we need to further refine them to achieve 100% usability even if for just casual drumming, as reliability of musical instruments is the most important factor for playing musical instruments. The achievement of this would also allow for the inclusion of hi-hat control which would then make the standard drum kit experience complete. Improvements to the user interface and user experience of the application is also something to be done for future work as the virtual drum system gets out of the prototype stage. Further development on using it as a MIDI controller, would depend on how accurate the system as it is further developed could be. However, those purposes are indeed use cases that have potential for this system.

REFERENCES

1. docs.djangoproject.com. [Online]. Avail- <https://docs.djangoproject.com/en/5.0/>
2. Python [Online]-Available:<https://www.python.org/>.
3. w3schools [Online]-Available -<https://www.w3schools.com/html/>
4. stackoverflow[Online].Available - <https://stackoverflow.com/>



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