

Building A Platform For Freelancers To Offer Services With Sql Integration

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ABSTRACT

The concept of a freelancer marketplace has evolved significantly with the advent of online platforms. Traditionally, freelancers relied on word-of-mouth, classified ads, and personal networks to find clients. Clients, on the other hand, sought freelancers through local directories, recommendations, or by visiting trade associations and events. Before online platforms, traditional systems involved manual processes such as posting classified ads in newspapers, distributing business cards, attending networking events, and relying on local employment agencies. These methods were time-consuming, lacked a broad reach, and made it difficult to verify the credentials and reliability of freelancers. The problem statements for traditional systems include Limited reach and visibility for both freelancers and clients, Time-consuming process of finding and vetting potential clients or service providers, Lack of a centralized system to manage job listings, transactions, and reviews, Difficulty in establishing trust and credibility without a structured review system. Research motivation for developing an online Freelancer Marketplace stem from the need to streamline and enhance the process of connecting freelancers with clients. By leveraging digital platforms, it's possible to create a more efficient, transparent, and accessible marketplace that benefits both parties. The motivation includes improving the reach, ease of use, reliability, and overall experience for users. The proposed system involves developing a website where freelancers can list their services, clients can hire them, and both parties can manage transactions seamlessly. Real-time examples include platforms like Upwork, Fiverr, and Freelancer, which have revolutionized the gig economy by providing a centralized hub for job listings, secure payment systems, and a review mechanism to build trust. These websites offer features like profile creation, service listing, job posting, secure payments, and feedback systems, ensuring a streamlined and trustworthy environment for freelancing.

Keywords: Freelancer Marketplace, Online Service Marketplace, SQL Database, Review and Rating System, Real-time Data Access.

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1. INTRODUCTION

In today's rapidly evolving job market, freelancing has become a popular career choice for many individuals seeking flexibility, autonomy, and the opportunity to leverage their unique skills. As the gig economy continues to expand, there is an increasing demand for platforms that can efficiently connect freelancers with clients. Building a robust platform for freelancers to offer their services not only provides

a centralized hub for job opportunities but also facilitates seamless interactions between service providers and clients. Such a platform empowers freelancers by giving them visibility and access to a wide range of projects, while clients benefit from a diverse pool of talent, ensuring they can find the right expert for their specific needs.

The integration of SQL into this platform enhances its functionality by enabling efficient data management and retrieval. SQL databases allow for the secure storage of user information, service listings, transaction records, and feedback, ensuring that the platform operates smoothly and reliably. This integration also supports advanced search capabilities, helping clients quickly find freelancers based on specific criteria such as skills, experience, and ratings. By leveraging SQL, the platform can provide detailed analytics and reporting features, offering insights into market trends, user behavior, and performance metrics. Ultimately, the combination of a user-friendly interface and powerful database management creates a comprehensive solution for the freelance community, fostering growth and success in the gig economy.



Fig. 1: Sql based Technology.

2. LITERATURE SURVEY

This paper explores the growth and impact of freelancing as an alternative employment market for software professionals in Pakistan. It examines the factors driving professionals towards freelancing, including job flexibility, better income opportunities, and the increasing availability of online platforms. The authors conducted a survey among software professionals to gather insights into their experiences and challenges. The findings indicate that freelancing offers significant benefits, such as skill development and career advancement, but also highlights issues like job security, inconsistent income, and lack of legal protections. The paper suggests that with proper regulatory frameworks and support systems, freelancing can be a sustainable career path for software professionals in Pakistan. The study contributes to understanding the evolving job market dynamics and offers recommendations for policymakers to enhance the freelancing ecosystem.

McKeown and Pichault's study investigates the perceptions and experiences of independent professionals working as contractors. The research highlights how contractors view their roles, the challenges they face, and the benefits they derive from this employment model. The paper identifies key factors influencing their work satisfaction, including autonomy, work-life balance, and professional growth opportunities. It also discusses the drawbacks, such as income instability, lack of employee benefits, and social isolation.

The authors conducted in-depth interviews with contractors from various industries to provide a comprehensive understanding of their work environment. The study concludes that while contracting offers significant flexibility and opportunities for personal and professional development, it also requires robust support systems to address the associated risks and challenges. This research adds valuable insights into the management of independent professionals and their integration into the broader workforce.

This paper presents the design and implementation of an online freelancing website aimed at connecting freelancers with clients. The authors describe the technical aspects of the platform, including its architecture, user interface, and key features. The website is designed to facilitate easy navigation and efficient communication between freelancers and clients. The platform includes functionalities like project posting, bidding, profile management, and secure payment systems. The study also highlights the importance of creating a trustworthy environment to attract and retain users. The authors conducted user testing to gather feedback and make improvements to the system. The paper concludes that an effective online freelancing platform can significantly enhance the freelancing experience by providing a reliable and user-friendly space for transactions and collaborations. This research contributes to the development of better online tools for the freelancing community.

Chatterjee, Varshney, and Vishwanath analyze the work capacity of regulated freelance platforms and the impact of different management schemes on their efficiency. The paper explores the fundamental limits of these platforms in terms of workload management, resource allocation, and performance optimization. The authors introduce decentralized schemes as potential solutions to enhance the scalability and reliability of freelance platforms. They use mathematical models and simulations to compare the performance of centralized and decentralized approaches. The findings suggest that decentralized schemes can offer significant improvements in handling large volumes of work and maintaining system stability. The study provides valuable insights into the operational challenges of freelance platforms and proposes innovative solutions to overcome them. This research is crucial for designing more efficient and robust freelance marketplaces.

Gandhi et al. propose a blockchain-based platform that leverages smart contracts to ensure secure and transparent transactions. The authors highlight the limitations of traditional centralized freelancing systems, such as the risk of fraud, delayed payments, and lack of trust. The proposed decentralized system addresses these issues by providing a tamper-proof ledger and automated contract enforcement. The study includes a detailed technical description of the system architecture and its components. The authors conducted experiments to evaluate the performance and reliability of the platform. The results indicate that a decentralized approach can significantly improve the trust and efficiency of freelancing systems. This research contributes to the advancement of blockchain technology applications in the gig economy.

Mondon-Navazo et al. conduct a comparative study of freelance organizations to explore alternative support structures for individualized workers. The paper examines how different freelance organizations operate, their strategies for supporting freelancers, and their impact on freelancers' work experiences. The authors analyze data from multiple freelance organizations across different countries to identify common practices and unique approaches. The study highlights the importance of collective representation, professional development opportunities, and access to resources in enhancing freelancers' work conditions. The findings suggest that well-organized freelance communities can provide significant benefits, including improved job security, networking opportunities, and advocacy for better working conditions. The paper concludes that freelance organizations play a crucial role in addressing the challenges faced by individual freelancers and promoting a more sustainable and equitable gig economy. This research provides valuable insights into the organizational dynamics of freelance work.

Popiel's paper assesses the concept of "boundaryless" careers within the context of freelancing on Upwork, a popular online platform for creative professionals. The study explores the implications of boundaryless work, characterized by flexible and project-based employment, for freelancers' careers and work-life balance. The author conducted qualitative interviews with freelancers on Upwork to gather insights into their motivations, experiences, and challenges. The findings indicate that while freelancing offers significant flexibility and opportunities for skill development, it also presents challenges such as job insecurity, income variability, and lack of traditional employment benefits. The paper discusses the strategies freelancers use to navigate these challenges, including networking, continuous learning, and personal branding. Popiel concludes that while boundaryless careers offer new opportunities for creative professionals, they also require a proactive approach to career management. This research contributes to the understanding of contemporary work practices in the creative economy.

Baitenizov et al. examines the role of freelancing as a creative mode of self-employment in the new economy. The paper synthesizes existing research on the motivations, benefits, and challenges of freelancing. It highlights the growing trend of professionals choosing freelancing as a career path due to factors such as flexibility, autonomy, and opportunities for creative expression. The review also discusses the economic and social implications of freelancing, including its impact on traditional employment models and the gig economy. The authors identify key challenges faced by freelancers, such as income instability, lack of social protection, and the need for continuous skill development. The paper concludes that while freelancing offers significant advantages for creative professionals, it also requires supportive policies and infrastructure to ensure sustainable and equitable work conditions. This comprehensive review provides valuable insights into the evolving landscape of freelancing in the modern economy.

Haq et al. investigate the determinants of client satisfaction in web development projects sourced from freelance marketplaces. The paper identifies key factors that influence client satisfaction, including communication quality, project management, technical expertise, and adherence to deadlines. The authors conducted a survey among clients who had hired freelancers for web development projects to gather data on their experiences and satisfaction levels. The findings indicate that effective communication and project management are critical for achieving high client satisfaction. The paper also highlights the importance of technical skills and timely delivery in meeting client expectations. The authors suggest that freelancers can enhance client satisfaction by improving their communication practices and project management skills. This research provides practical insights for freelancers and clients on how to achieve successful collaborations in web development projects. It also contributes to the broader understanding of client-freelancer dynamics in online marketplaces.

Shah's thesis explores the development of a blockchain-based decentralized freelancing application. The research focuses on leveraging blockchain technology to address the challenges of trust, transparency, and security in freelance transactions. The proposed system uses smart contracts to automate and enforce agreements between freelancers and clients, ensuring that payments are made only when the agreed-upon conditions are met. The paper discusses the technical implementation of the system and its potential benefits over traditional centralized freelancing platforms. Shah conducted a series of experiments to evaluate the performance and usability of the application, gathering feedback from potential users. The results indicate that the blockchain-based system can effectively improve trust and efficiency in freelancing transactions. This thesis contributes to the growing body of research on the application of blockchain technology in the gig economy and offers practical solutions for enhancing the freelancing experience.

Sutherland et al. explore the concept of work precarity and gig literacies in online freelancing. The paper examines how freelancers navigate the uncertainties and challenges of gig work, focusing on their strategies for managing job instability, income variability, and professional development. The authors conducted qualitative interviews with freelancers from various online platforms to gather insights into their experiences and coping mechanisms. The study highlights the importance of digital literacy, networking skills, and self-management in succeeding as a freelancer. The findings reveal that while freelancing offers significant flexibility and autonomy, it also requires a high level of resilience and adaptability. The paper concludes that enhancing gig literacies through targeted training and support can help freelancers better manage the risks and opportunities of gig work. This research provides valuable insights into the lived experiences of freelancers and the skills needed to thrive in the gig economy.

Pallam and Gore present Boomerang, a blockchain-based freelance paradigm built on the Hyperledger platform. The paper describes the design and implementation of the system, which aims to enhance trust, transparency, and security in freelance transactions. The authors highlight the limitations of traditional freelance platforms, such as the potential for fraud and lack of accountability. The Boomerang system uses smart contracts to automate and secure agreements between freelancers and clients, ensuring that terms are met before payments are released. The study includes a technical overview of the Hyperledger framework and its suitability for building decentralized applications. The authors conducted performance evaluations to assess the system's efficiency and scalability. The results demonstrate that Boomerang can provide a reliable and secure environment for freelancing activities. This research contributes to the development of blockchain-based solutions for the gig economy and offers practical insights for improving freelance platforms.

Cachon, Dizdarer, and Tsoukalas analyze the optimal pricing strategies for online service platforms, comparing decentralized and centralized control models. The paper investigates how different pricing mechanisms impact the efficiency and profitability of platforms. The authors use game theory and economic modeling to explore the dynamics of price setting in decentralized and centralized systems. The study examines the trade-offs between flexibility, control, and market responsiveness in each model. The findings suggest that decentralized pricing can lead to higher efficiency and better market outcomes under certain conditions, while centralized control may offer advantages in terms of coordination and stability. The paper also discusses the implications for platform operators and policymakers, emphasizing the need for a balanced approach to pricing strategy. This research provides valuable insights into the economic and strategic considerations of managing online service platforms.

Wright's whitepaper introduces Bitcoin, the first decentralized peer-to-peer electronic cash system. The paper outlines the technical foundations of Bitcoin, including its blockchain-based architecture, proof-of-work consensus mechanism, and cryptographic security features. Wright describes how Bitcoin enables secure, transparent, and trustless transactions without the need for intermediaries. The whitepaper addresses key challenges in digital currency systems, such as double-spending, transaction verification, and scalability. The introduction of Bitcoin marks a significant milestone in the development of decentralized finance and has inspired numerous subsequent innovations in blockchain technology and cryptocurrencies. Wright's whitepaper provides a comprehensive overview of Bitcoin's design principles and operational mechanisms, laying the groundwork for the broader adoption and evolution of decentralized financial systems. This foundational document is crucial for understanding the principles and potential of blockchain technology in various applications.

Dannen's book provides an introduction to Ethereum and Solidity, offering a comprehensive guide to cryptocurrency and blockchain programming for beginners. The book covers the fundamentals of

blockchain technology, the Ethereum platform, and the Solidity programming language. Dannen explains the concepts of smart contracts, decentralized applications (DApps), and the Ethereum Virtual Machine (EVM). The book includes practical examples and hands-on exercises to help readers understand and implement blockchain solutions. It also discusses the broader implications of blockchain technology for various industries, including finance, supply chain, and digital identity. Dannen's book serves as an accessible entry point for developers and enthusiasts interested in exploring the potential of Ethereum and blockchain technology. This resource is valuable for anyone looking to gain a solid foundation in blockchain programming and develop skills in creating decentralized applications.

3. PROPOSED METHODOLOGY

This project is a Freelancer Marketplace platform built using Django, a popular web framework. The platform allows freelancers to list their services and clients to hire them. The project implements several key functionalities including user authentication, job posting, job application, job management, and admin controls. Users can register either as freelancers or clients, post and apply for jobs, and manage their activities through different dashboards. The platform also supports admin functionality to oversee the operations.

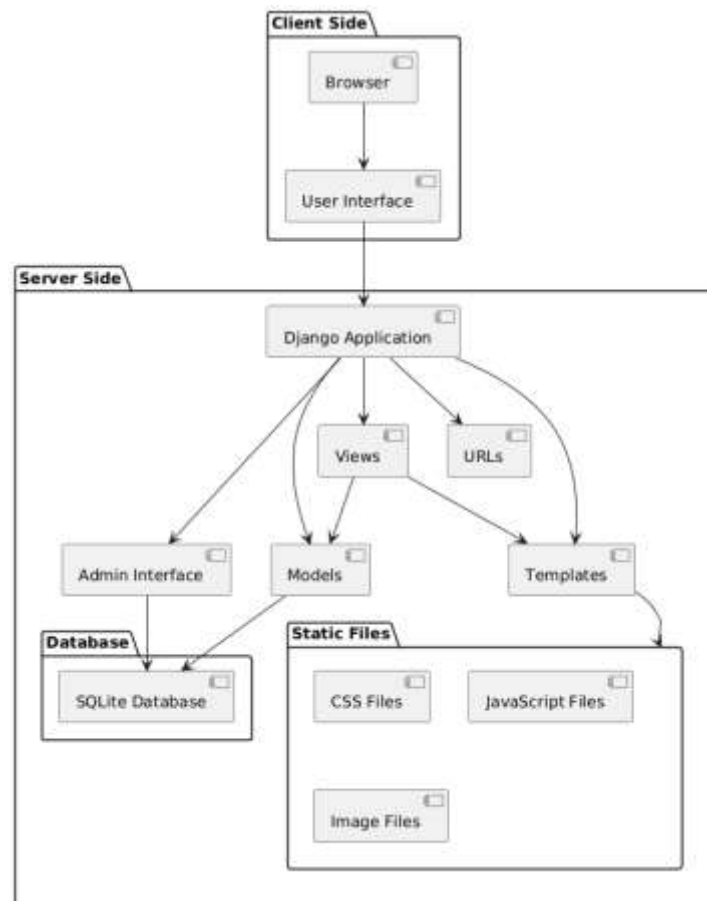


Fig. 2: Architectural Block Diagram

The proposed freelancer platform is a web-based application built using the Django framework with SQL integration, designed to streamline interactions between freelancers, clients, and administrators. Key features include secure user authentication with role-based access, job posting and management by clients, application handling by freelancers, status updates (pending, confirmed, rejected), and admin oversight.

Separate dashboards are provided for freelancers and clients to manage their activities. The technical implementation follows Django's Model-View-Template (MVT) architecture, with models for storing job and application data, views to handle user interactions, and templates for rendering dynamic HTML content. Django's built-in features such as its ORM, admin interface, and security mechanisms ensure robust backend functionality, while HTML and CSS are used to create structured and visually appealing front-end interfaces. The integration of Django with HTML and CSS through its templating engine and static files system supports the development of a scalable, secure, and user-friendly platform that facilitates efficient service listings, job applications, and transaction management in a centralized freelancing ecosystem.

4. RESULTS AND DISCUSSION



Fig. 3: Home Page

Home Page :

The home page function in a **FREELANCER SERVICE PLATFORM** web application renders the home.html template when a request is made. It takes the request object as a parameter and returns the rendered template. This function serves to display the home page of the web application. Non-authenticated users would only see "Login" and "Register" links. This approach simplifies the menu by treating all logged-in users the same, with differentiating between regular users and staff members. It ensures that all authenticated users have access to the same features, streamlining the user interface.

The screenshot shows the 'REGISTER' page of the 'FREELANCER SERVICE PLATFORM'. The page has a purple header with the platform name and navigation links for 'Home', 'Login', and 'Register'. The main content area features a registration form with the following fields: 'Name' (with placeholder 'Enter Name'), 'Mobile' (with placeholder 'Enter Mobile Number'), 'Email' (with placeholder 'Enter Email'), 'Username' (with placeholder 'Enter Username'), 'Password' (with placeholder 'Enter Password'), and 'Confirm Password' (with placeholder 'Enter Password'). Below these fields is a 'Select user' section with radio buttons for 'Admin' and 'Student'. A blue 'Register' button is positioned at the bottom of the form. The background includes a large grey circle and a smaller grey circle.

Fig. 4: Register page.

REGISTER :

The register function handles user registration in a **FREELANCER SERVICE PLATFORM** web application. When a POST request is made, it retrieves user details from the form, including name, email, username, password, confirmation password, and user type (admin or regular). It checks if the passwords match and whether the username already exists. If the username is unique and passwords match, a new user is created with the provided details, including setting the user as staff if selected. On success, it redirects to the login page with a success message. If there are errors, appropriate error messages are displayed, and the user is redirected back to the registration page. For GET requests, it renders the registration form.

The screenshot shows the 'LOGIN' page of the 'FREELANCER SERVICE PLATFORM'. The page has a purple header with the platform name and navigation links for 'Home', 'Login', and 'Register'. The main content area features a login form with the following elements: a 'User' section with radio buttons for 'User' and 'Admin', an 'Enter Username' field, an 'Enter Password' field, and a blue 'Log In' button. The background includes a large grey circle and a smaller grey circle.

Fig. 5: Login Page for Both Admin and User

LOGIN :

The login function handles user authentication in a **FREELANCER SERVICE PLATFORM** web application. It processes POST requests by retrieving the username and password, authenticates the user, and logs them in if the credentials are correct. On successful login, it redirects to the home page and shows a success message. If authentication fails, it redirects back to the login page with an error message. For GET requests, it renders the login page.



Fig. 6: Home Page for Admin

JOB PROVIDER Home Page :-

The navigation menu would display the same options for all authenticated users. Logged-in users would see links to "Home," "Add Job," "Posted," "Pending's," "Confirmed," and "Logout," regardless of their role or privileges. Non-authenticated users would only see "Login" and "Register" links. This approach simplifies the menu by treating all logged-in users the same, with differentiating between regular users and staff members. It ensures that all authenticated users have access to the same features, streamlining the user interface.

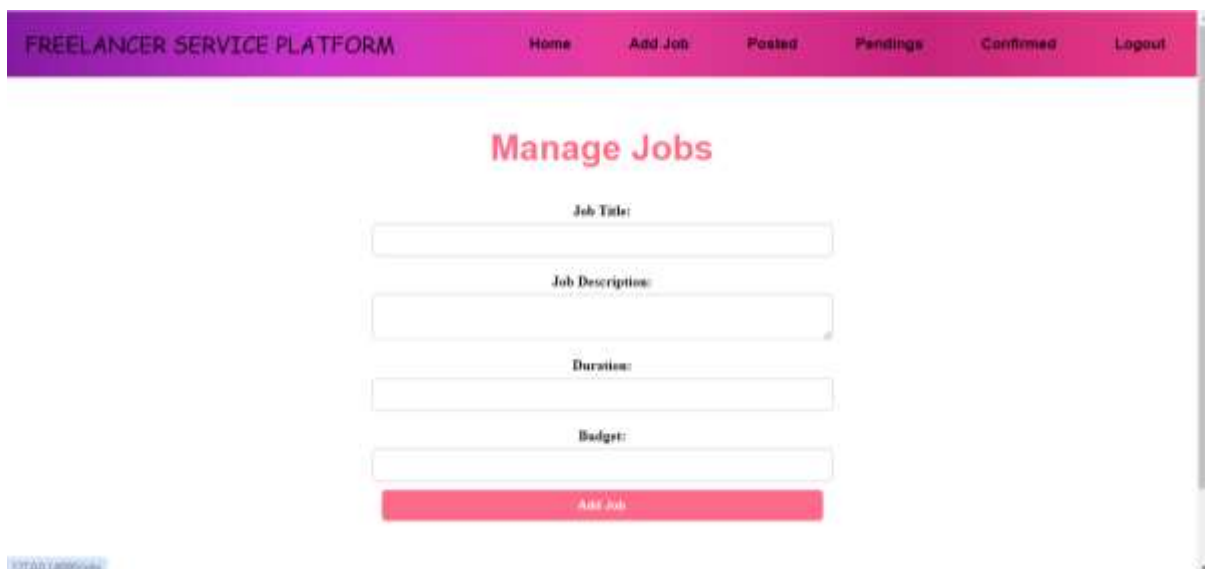
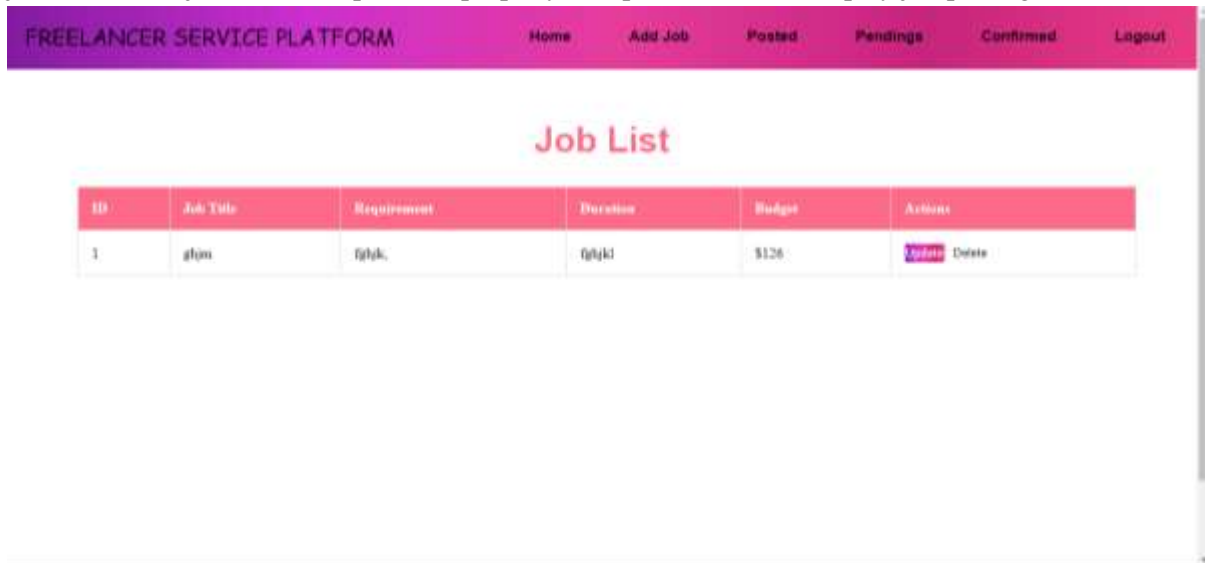


Fig. 7: Add / Post Job

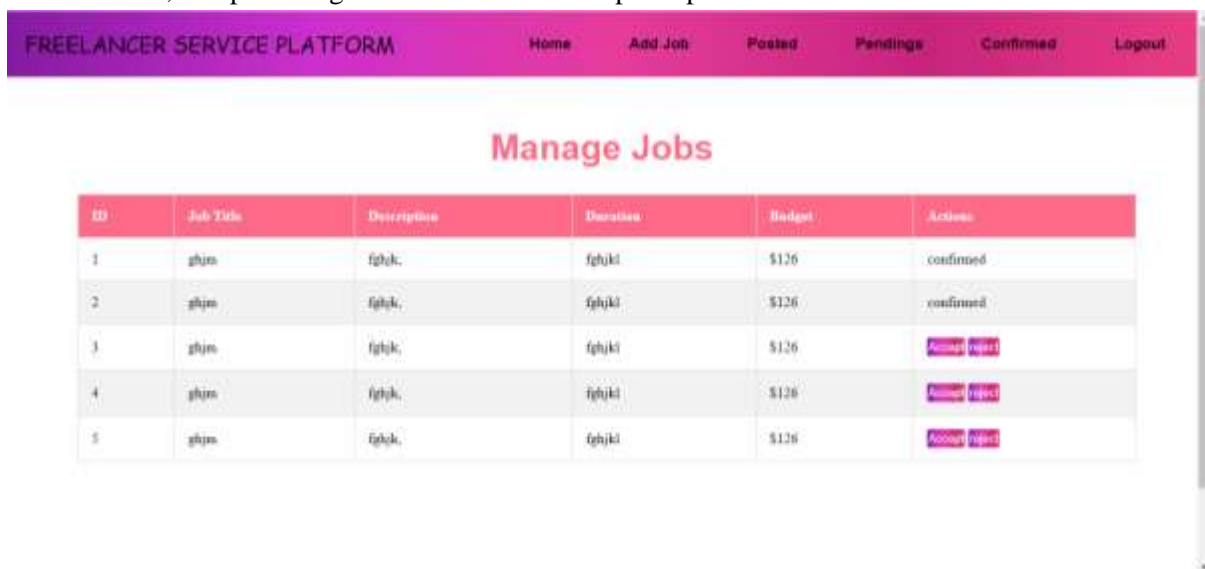
The job view function handles job postings by processing form submissions and creating new job instances. When a POST request is made, it extracts job details title, description, duration, and budget from the request and creates a new job record associated with the current user. After saving the job, it displays a success message and redirects the user to the 'jobs' page. For GET requests, it simply renders the 'jobs.html' template. To improve the function, consider using Django forms for better data validation, handling potential exceptions, and ensuring a more robust user experience. Additionally, make sure the job model and 'jobs.html' template are properly set up to handle and display job postings.



ID	Job Title	Requirement	Duration	Budget	Actions
1	ghjrn	fighjk,	fighjk	\$126	Update Delete

Fig. 8: Jobs List to Update or Delete

The jobs update function allows users to update the budget of a specific job posting. It retrieves the job instance based on the provided primary key (pk). If the request method is POST, it updates the budget field of the job with the new value submitted in the form and saves the changes to the database. After handling the update, it renders the 'jobs.html' template, passing the updated job instance to it. To improve this function, consider adding error handling for cases where the job might not exist, using Django forms for validation, and providing user feedback on the update process.

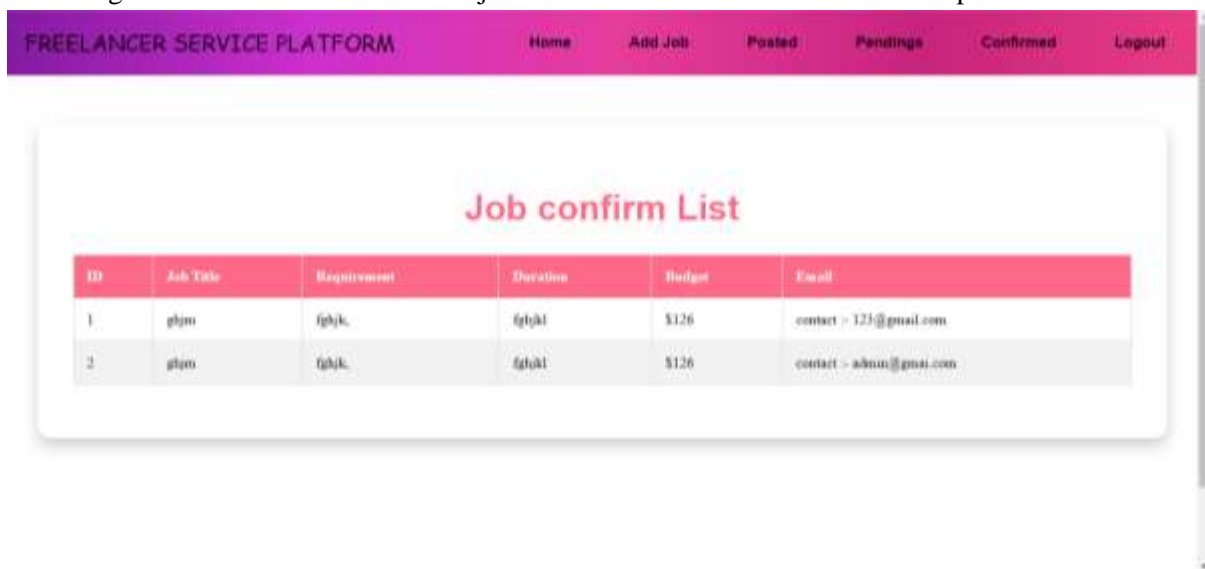


ID	Job Title	Description	Duration	Budget	Actions
1	ghjrn	fighjk,	fighjk	\$126	confirmed
2	ghjrn	fighjk,	fighjk	\$126	confirmed
3	ghjrn	fighjk,	fighjk	\$126	Accept Request
4	ghjrn	fighjk,	fighjk	\$126	Accept Request
5	ghjrn	fighjk,	fighjk	\$126	Accept Request

Fig. 9: Accept or Reject Request

The accept job function handles updating the status of a job application. It retrieves an Apply instance based on the provided primary key (pk). If the application's current status is 'pending', it changes the status to 'confirm' and saves the update to the database. After updating the status, the function redirects the user to the 'jobs applied' page. To enhance this function, consider adding error handling for cases where the Apply instance may not be found, and ensure that only authorized users can make status updates. Providing user feedback on the action could also improve the user experience.

The reject job function updates the status of a job application to 'reject'. It retrieves the Apply instance using the provided primary key (pk), changes its status to 'reject', and saves the change to the database. After the update, it redirects the user to the 'jobs applied' page. To improve this function, consider adding error handling to manage cases where the Apply instance might not be found. Additionally, implement user authentication and authorization checks to ensure that only permitted users can change the status. Providing feedback to users about the rejection could also enhance the overall experience.



The screenshot shows a web application interface for a 'FREELANCER SERVICE PLATFORM'. The navigation bar includes links for Home, Add Job, Posted, Pending, Confirmed, and Logout. The main content area displays a table titled 'Job confirm List' with the following data:

ID	Job Title	Requirement	Duration	Budget	Email
1	ghm	ghjk	ghkl	\$126	contact - 123@gmail.com
2	ghm	ghjk	ghkl	\$126	contact - admin@gmail.com

Fig. 10: Job confirmed List

The confirm list function retrieves and displays job applications that have been confirmed. It filters Apply instances where the status is 'confirm' and passes this filtered list to the 'job.html' template. This allows users to view all confirmed applications. To improve the function, consider adding pagination if there are many confirmed applications, and ensure that only authorized users can access this information. Additionally, make sure that 'job.html' is set up to properly display the confirmed applications and provide meaningful feedback if no applications are found.



Fig. 11: Home Page Job Seeker

Seeker Home Page :

The navigation menu would display the same options for all authenticated users. Logged-in users would see links to "Home," "Jobs," and "Logout," regardless of their role or privileges. Non-authenticated users would only see "Login" and "Register" links. This approach simplifies the menu by treating all logged-in users the same, with differentiating between regular users and staff members. It ensures that all authenticated users have access to the same features, streamlining the user interface.

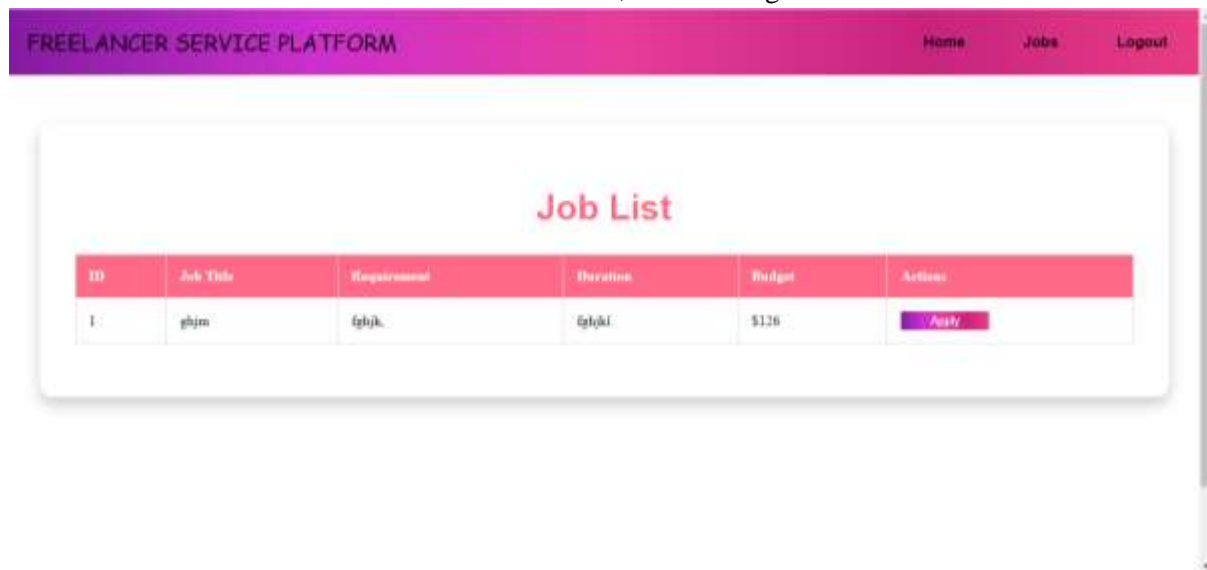


Fig. 12: Jobs List

The job apply function allows users to apply for a specific job. It retrieves the job instance using the provided primary key (pk). The function then checks if the user has already applied for this job by querying the Apply model. If an application already exists, it displays an error message and redirects the user back to the job list. If the user has not applied yet, it creates a new Apply instance, saves it, and shows a success message indicating that the application was confirmed. Finally, it redirects the user to the job list page.

To improve the function, consider adding error handling for cases where the job might not be found, ensuring that only logged-in users can apply, and potentially using Django forms for better input management. Additionally, make sure that the job and Apply models, as well as the 'jobs list' template, are properly configured to handle these operations.

5. CONCLUSION

The Freelancer Marketplace platform represents a significant evolution from traditional methods of connecting freelancers with clients. Traditionally, freelancers relied on word-of-mouth, classified ads, and personal networks, while clients searched through local directories, recommendations, and trade associations. These traditional methods were often inefficient, time-consuming, and lacked a broad reach. The advent of online platforms has addressed these limitations by providing a centralized, efficient, and accessible marketplace. Our proposed Freelancer Marketplace platform aims to enhance the process of connecting freelancers with clients by leveraging digital technologies. The system offers various features, including profile creation, service listing, job posting, secure payments, and a feedback mechanism. These features streamline the job search process, making it more transparent and reliable for both freelancers and clients.

By offering a centralized hub for job listings and transactions, the platform addresses several issues inherent in traditional systems. It provides greater reach and visibility, enabling freelancers to access a wider audience and clients to find a broader range of service providers. The time-consuming process of vetting potential clients or service providers is significantly reduced, thanks to the integrated review and rating system. This system also helps in establishing trust and credibility, which is often a challenge in traditional freelancing methods. The integration of secure payment systems ensures that transactions are safe and reliable, protecting both freelancers and clients from potential fraud. Moreover, the platform's user-friendly interface and efficient navigation improve the overall user experience, making it easier for users to manage their profiles, job listings, and transactions. Real-time examples like Upwork, Fiverr, and Freelancer illustrate the transformative impact of such platforms on the gig economy. These platforms have revolutionized freelancing by providing a structured and trustworthy environment where freelancers and clients can connect seamlessly. In conclusion, the Freelancer Marketplace platform not only modernizes the way freelancers and clients interact but also offers a more efficient, reliable, and accessible solution to the freelancing industry's traditional challenges. By integrating advanced features and secure systems, it aims to create a better experience for all users, ultimately fostering growth and innovation in the freelancing market.

REFERENCES

- [1] Rehman, Z.; Usman, M.; Abrar, M.F.; Ullah, N. Freelancing as an Alternative Market for Software Professionals in Pakistan. *VFAST Trans. Softw. Eng.* 2021, 9, 78–92.
- [2] McKeown, T.; Pichault, F. Independent Professionals as Talent: Evidence from Individual Views of Working as a Contractor. *Hum. Resour. Manag.* 2021, 60, 313–328.
- [3] Kaur, B.; Manohar, R.M.S.N.; Vamsi, R.R.; Teja, G.E.S. Online Freelancing Website. *Int. J. Sci. Res. Comput. Sci. Eng. Inf. Technol.* 2021, 7, 509–513.
- [4] Chatterjee, A.; Varshney, L.R.; Vishwanath, S. Work Capacity of Regulated Freelance Platforms: Fundamental Limits and Decentralized Schemes. *IEEE/ACM Trans. Netw.* 2017, 25, 3641–3654.
- [5] Gandhi, M.; Shah, P.; Solanki, D.; Shah, M. IRJET—Decentralized Freelancing System—Trust and Transparency. *Int. Res. J. Eng. Technol.* 2019, 6, 2092–2097.

- [6] Mondon-Navazo, M.; Murgia, A.; Borghi, P.; Mezihorak, P. In Search of Alternatives for Individualised Workers: A Comparative Study of Freelance Organisations. Organization 2021, 28, 13505084211041709.
- [7] Popiel, P. “Boundaryless” in the Creative Economy: Assessing Freelancing on Upwork. Crit. Stud. Media Commun. 2017, 34, 220–233.
- [8] Baitenizov, D.T.; Dubina, I.N.; Campbell, D.F.J.; Carayannis, E.G.; Azatbek, T.A. Freelance as a Creative Mode of Self-Employment in a New Economy (a Literature Review). J. Knowl. Econ. 2019, 10, 1–17.
- [9] Haq, N.U.; Raja, A.A.; Nosheen, S.; Sajjad, M.F. Determinants of Client Satisfaction in Web Development Projects from Freelance Marketplaces. Int. J. Manag. Proj. Bus. 2018, 11, 583–607.
- [10] Shah, R.R. Blockchain Based Decentralized Freelancing Application; California State University: Sacramento, CA, USA, 2020; pp. 1–49.
- [11] Sutherland, W.; Jarrahi, M.H.; Dunn, M.; Nelson, S.B. Work Precarity and Gig Literacies in Online Freelancing. Work Employ. Soc. 2020, 34, 457–475.
- [12] Pallam, B.; Gore, M.M. Boomerang: Blockchain-Based Freelance Paradigm on Hyperledger. In Proceedings of the 2019 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT), Kanpur, India, 6–8 July 2019.
- [13] Cachon, G.P.; Dizdarer, T.; Tsoukalas, G. Decentralized or Centralized Control of Online Service Platforms: Who Should Set Prices? SSRN Electron. J. 2021, 1, 1–55.
- [14] Wright, C.S. Bitcoin: A Peer-to-Peer Electronic Cash System; Whitepaper: Sydney, Australia, 2008; pp. 1–9.
- [15] Dannen, C. Introducing Ethereum and Solidity: Foundations of Cryptocurrency and Blockchain Programming for Beginners; University of California: Berkeley, CA, USA, 2017; pp. 1–185.