



SkillHub: A Freelancing Bridge Between Clients and Skilled Professionals

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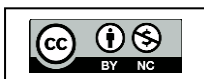
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Abstract: The rapid growth of the digital economy has increased the demand for online platforms that connect clients with skilled freelancers. This project presents the development of a web-based Freelancing Platform built using ASP.NET Web Forms with C# and SQL Server. The system provides an efficient environment where clients can post projects and freelancers can offer their services by submitting proposals. The platform begins with user registration, allowing individuals to sign up either as clients or freelancers. After authentication, clients can create and publish project requirements including descriptions, budgets, and deadlines. These project details are securely stored in the database for easy retrieval and management. Freelancers can explore the available projects and submit proposals based on their expertise and interest. The client reviews the submitted proposals and selects the most suitable freelancer for the project. Once selected, the freelancer completes the assigned task and submits the final work through the system. The client then reviews the work and confirms completion. After approval, the platform facilitates payment processing to the freelancer. Additionally, both clients and freelancers can provide ratings and feedback, which helps maintain transparency and build trust within the platform. The system is designed to simplify the freelancing process by providing a centralized platform for communication, project management, and secure transactions. By using ASP.NET Web Forms and C#, the application ensures reliability, scalability, and user-friendly interaction. This platform aims to support remote work opportunities and improve collaboration between clients and freelancers in a structured digital environment.

Keyword: Freelancing Platform, Online Job Portal, Client-Freelancer Collaboration, Project Management System, Proposal Submission, ASP.NET Web Forms, C#, SQL Server, Secure Payment Processing, Ratings and Feedback System, User Authentication, Remote Work Management.

I. INTRODUCTION

In today's digital era, freelancing has emerged as a significant mode of employment, allowing skilled professionals to work remotely and clients to access a global talent pool. Traditional job-seeking methods are often limited by geographical constraints and time, making online platforms an efficient solution for connecting clients with freelancers. A freelancing platform facilitates this interaction by providing a structured environment where projects can be posted, proposals can be submitted, and tasks can be completed remotely [1].



This project focuses on developing a web-based freelancing system using ASP.NET with C# and SQL Server. The platform allows users to register as clients or freelancers, manage projects, submit proposals, and handle payments securely. Additionally, it incorporates a ratings and feedback system to maintain trust and transparency between users. By automating project management and communication, the platform aims to simplify the freelancing process and create a reliable digital workspace for both clients and freelancers [2].

II. LITERATURE ANALYSIS

Several recent studies have explored different aspects of freelancing platforms and their impact on users. Gorivale et al. [1] developed Talent Hub, a web-based freelancing platform using Wix and Velo, implementing features such as user authentication, role-based dashboards, secure payment integration, and a rating system to streamline interactions between clients and freelancers.

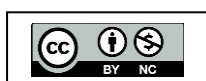
Akshaya K M et al. [2] conducted a literature review on major freelancing platforms like Upwork, Fiverr, and Toptal, analyzing platform dynamics, freelancer experiences, client-freelancer relationships, and socio-economic impacts, while highlighting ethical concerns and the need for policy interventions.

Ramteke and Khandar [3] focused on teenagers engaging in freelancing, emphasizing skill development, financial independence, career exploration, and flexibility, suggesting structured platforms and educational programs to support young freelancers.

Gupta et al. [4] investigated the freelancing bidding system, simulating cost-focused, reputation-focused, and balanced bidding scenarios to study fairness, efficiency, and quality, and proposed solutions such as AI-driven matching and quality incentives to improve platform sustainability..

TABLE I: LITERATURE WORK

Author and Year	Methods	Future Scope
Diksha Gorivale, Prathamesh Desai, Yash Parab, Pratik Poojary (2021)	Developed a freelancing platform “Talent Hub” using Wix and Velo. Implemented user authentication, role-based dashboards, job/service listings, direct hiring, secure payment integration, and a rating system.	Future enhancements include AI-driven job recommendations, escrow payment security, advanced analytics, and improved UI/UX for better user engagement.
Akshaya K M, Akarsha Kumar B H, Aravinda R, Veda N (2021)	Conducted a literature review on freelancing platforms such as Upwork, Fiverr, Toptal. Analyzed platform dynamics, freelancer experiences, client-freelancer relationships, and socio-economic impacts. Highlighted reputation systems, income volatility, gender dynamics, and ethical concerns.	Suggested policy interventions to protect freelancers, ensure equitable growth, and address income stability and ethical platform design. Opportunities for technological enhancements and improved cross-border collaboration.
Mansi Ashok Ramteke, Nikhil	Studied teenagers engaging in freelancing. Examined motivations, skill	Future research could involve structured platforms or educational



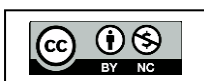
<p>V. Khandar (2021)</p>	<p>development, financial independence, career exploration, and flexibility. Focused on personal and professional growth, including communication, time management, and problem-solving skills.</p>	<p>programs for teen freelancers, enhancing skill-building, mentoring, and safe online work environments to support career readiness.</p>
<p>Aditya Gupta, Anil Yadav, Nakshtra Sharma, Rashmi Tiwari (2023)</p>	<p>Developed a conceptual framework for freelancing bidding systems and simulated a bidding environment with 50 freelancers. Evaluated fairness, efficiency, and quality metrics under cost-focused, reputation-focused, and balanced bidding. Highlighted issues like underbidding, reputation bias, and client overload.</p>	<p>Future work should use real-world platform data, test higher quality weightings and larger samples, and explore AI-driven matching, quality incentives, and reforms to improve fairness and sustainability.</p>

III. WORKING METHODOLOGY

The working methodology of the freelancing platform is designed to provide a seamless interaction between clients and freelancers while ensuring security, efficiency, and transparency. The system operates in a step-by-step manner as follows:

- 1. System Initialization:** The platform is launched on a web server, allowing users to access it via a browser.
- 2. User Registration and Login:** New users can register as either freelancers or clients by providing basic details. Returning users can log in securely using their credentials.
- 3. Project Posting:** Clients can create and post projects with details such as title, description, budget, and deadline. The project information is stored in the database for access by freelancers.
- 4. Project Browsing and Proposal Submission:** Freelancers can browse available projects and submit proposals indicating their expertise, estimated time, and cost.
- 5. Proposal Evaluation:** Clients review the submitted proposals and select the most suitable freelancer for their project.
- 6. Project Execution:** The selected freelancer works on the assigned project and submits the completed work through the system.
- 7. Work Review and Payment:** Clients evaluate the submitted work and, upon approval, release the payment to the freelancer using the platform’s secure payment system.
- 8. Ratings and Feedback:** Both clients and freelancers provide ratings and feedback to each other, promoting accountability and trust in the system.

The methodology ensures that all interactions, from project posting to completion, are efficiently managed through the web platform. By leveraging ASP.NET, C#, and SQL Server, the system maintains data integrity, user authentication, and secure transactions while providing a user-friendly interface for all participants.



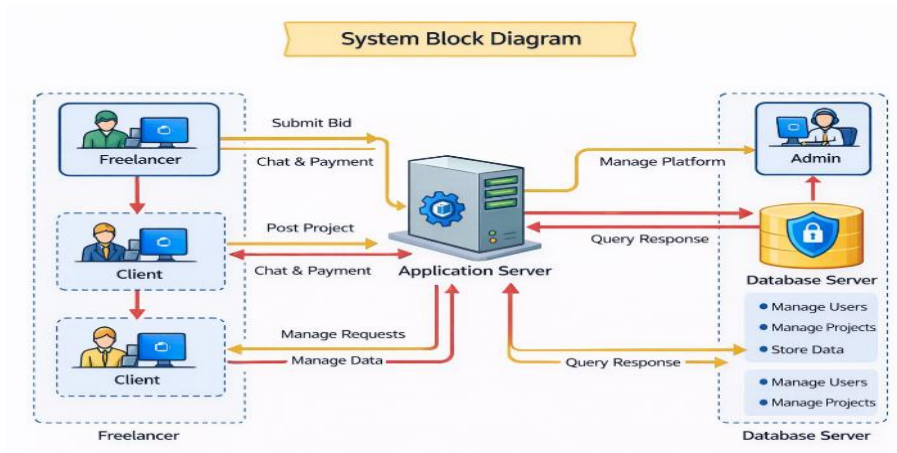


Figure 1. System Diagram

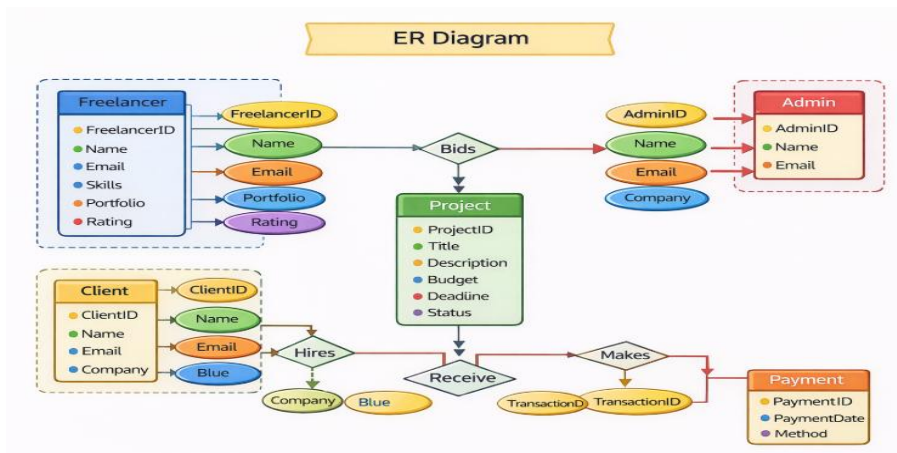


Figure 2. ER Diagram

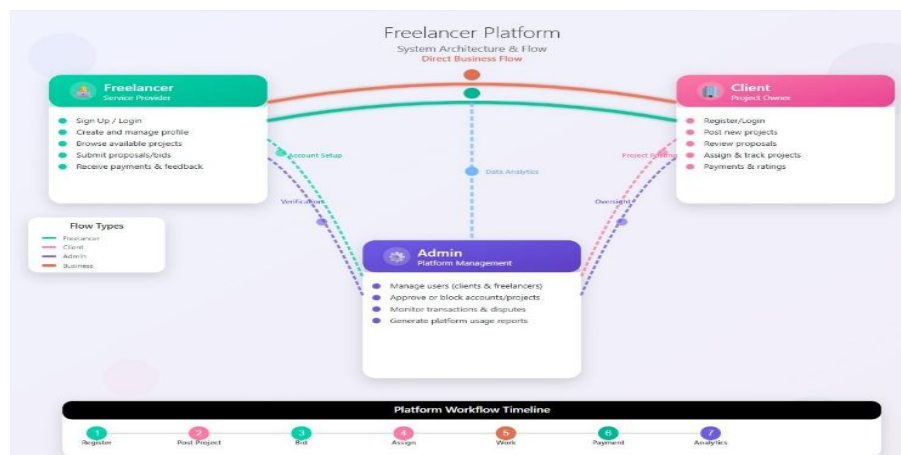
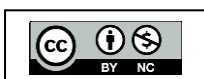


Figure 3. Flow Diagram



IV. RESULTS AND DISCUSSION

The Freelancing Platform developed using ASP.NET C# successfully provides a comprehensive environment for clients and freelancers to interact, manage projects, and conduct secure transactions. The system was tested with multiple users to verify its functionality, usability, and performance.

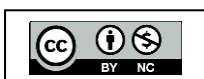
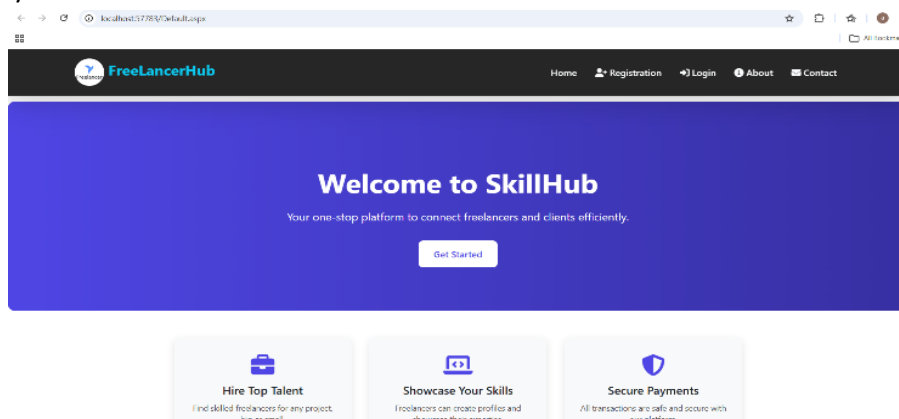
Key Results:

- 1. User Registration and Authentication:** Both freelancers and clients were able to register and log in successfully. The mechanism ensures that only verified users can access the platform.
- 2. Project Management:** Clients can post detailed projects, and freelancers can browse and submit proposals efficiently. The database correctly stores and retrieves all project-related information.
- 3. Proposal Submission and Selection:** Freelancers' proposals are displayed to clients in a structured format, enabling easy evaluation. Clients can select the most suitable freelancer, ensuring fair and transparent project assignment.
- 4. Project Execution and Payment:** Freelancers submit completed work through the platform. Clients review the work and release payments securely, demonstrating reliable transaction management.
- 5. Ratings and Feedback:** Both clients and freelancers are able to provide ratings and feedback, which helps improve the credibility and accountability of users.

Discussion: The platform demonstrates improved efficiency in managing freelance projects compared to traditional offline methods. The integration of secure payment processing and a feedback system enhances trust between users. The user interface, built with ASP.NET, is intuitive and supports smooth navigation for both clients and freelancers. Data integrity and security are maintained using SQL Server, ensuring that sensitive information such as user credentials and payment details are protected. Overall, the system meets the project objectives by providing a reliable, user-friendly, and scalable solution for online freelancing. Minor enhancements such as notification alerts, advanced search filters, or mobile responsiveness can further improve user experience and platform in the future.

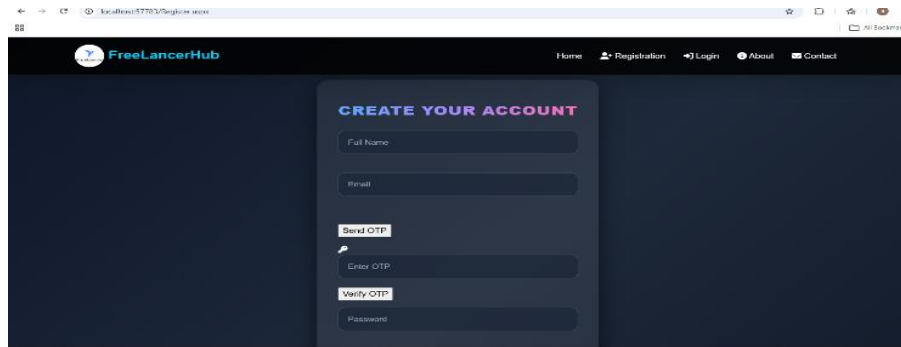
Screenshot 1: Home:

The home screen is the main entry point of the system that provides navigation to login, registration, and other key features for users.



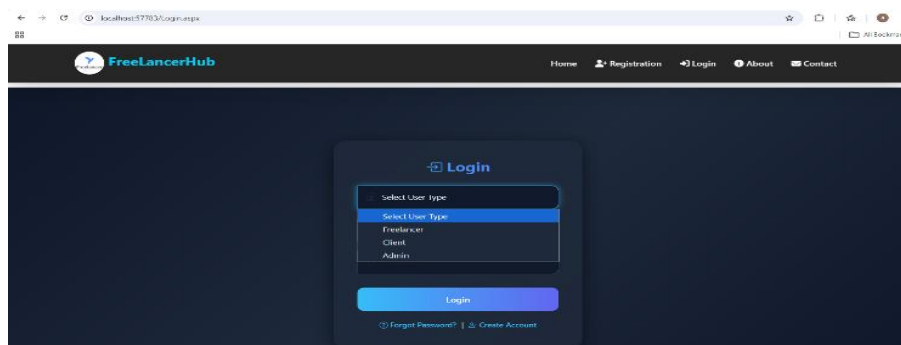
Screenshot 2: Registration

This screen allows new users to register as a client or freelancer by entering basic details. The data is stored securely in the database for authentication.



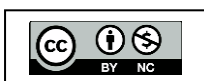
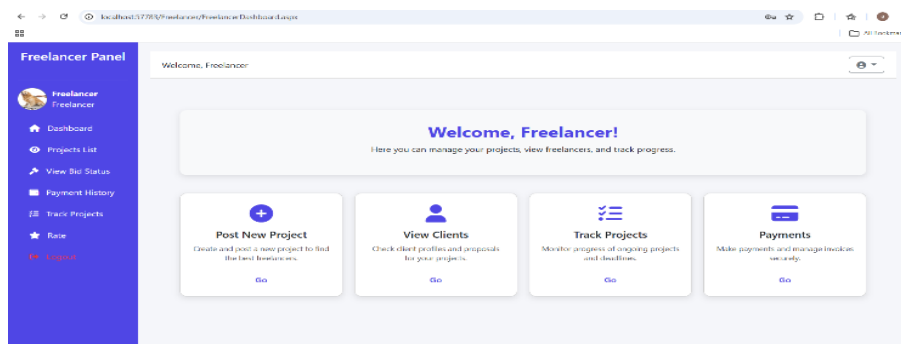
Screenshot 3: Login

This page provides secure login functionality where registered users enter credentials to access their respective dashboards.



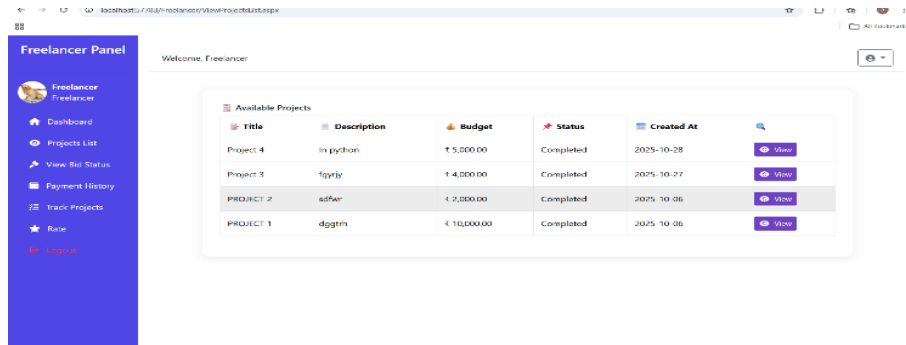
Screenshot 4: Freelancer

This interface represents the freelancer role, allowing users to access features related to project browsing and proposal submission.



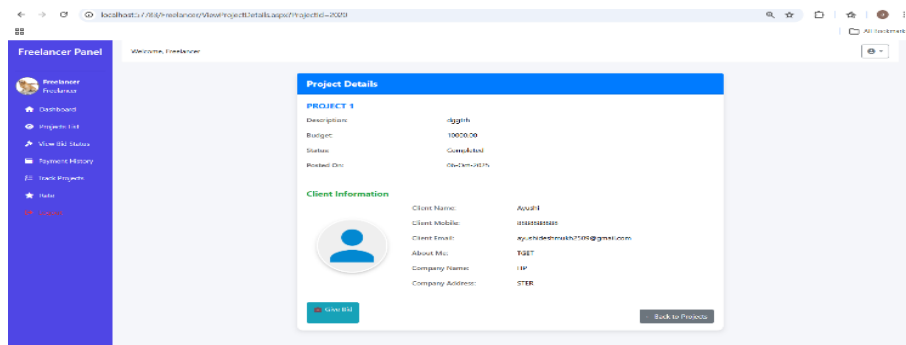
Screenshot 5: View Project List and their Details

This screen displays the list of available projects along with their details, allowing freelancers to view and select suitable projects.



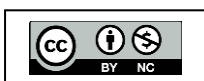
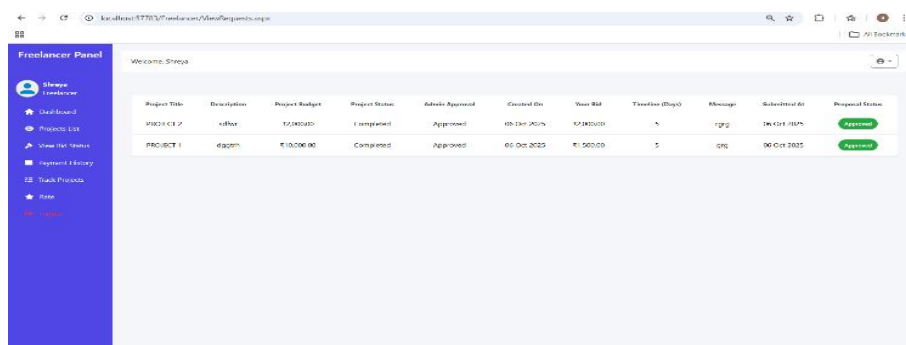
Screenshot 6: Project Details and Give Bid

This screen shows detailed project information where freelancers can submit bids including cost and estimated completion time.



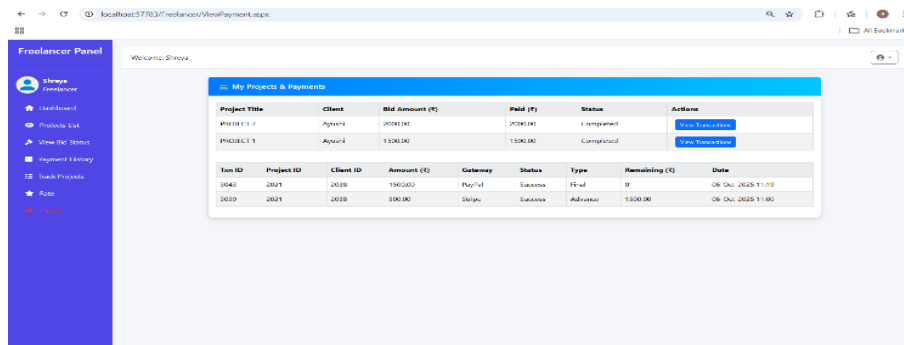
Screenshot 7: View Bids

This page allows viewing of submitted bids, helping in tracking proposals and their status.



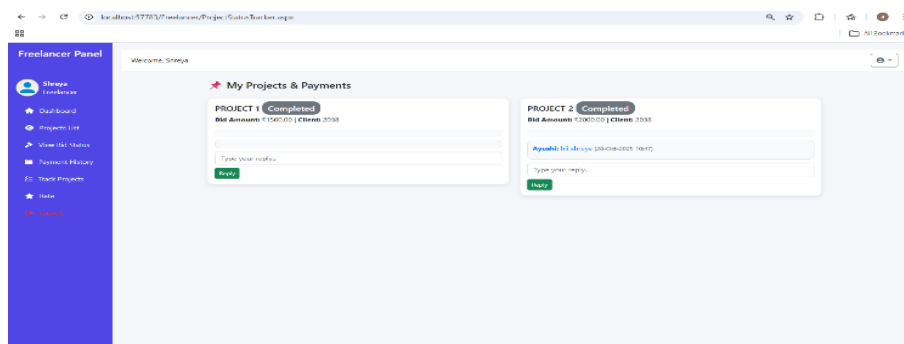
Screenshot 8: View Transaction History

This section displays completed project transactions and enables communication between freelancer and client.



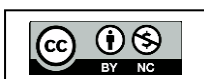
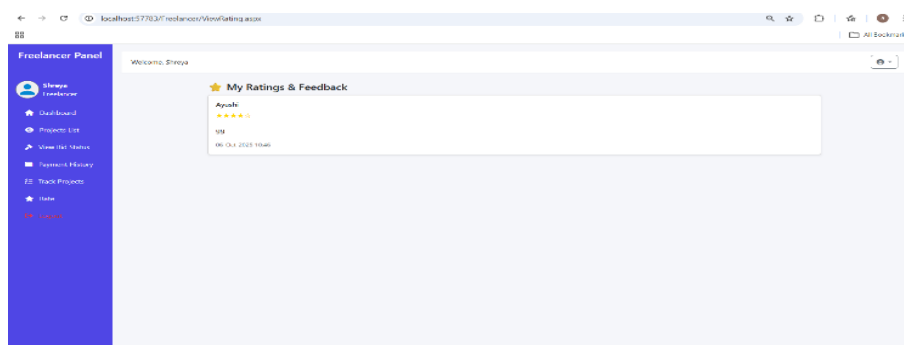
Screenshot 9: Track Project & Chat with Respective Client

This screen allows users to track project progress and communicate with the respective client through chat.



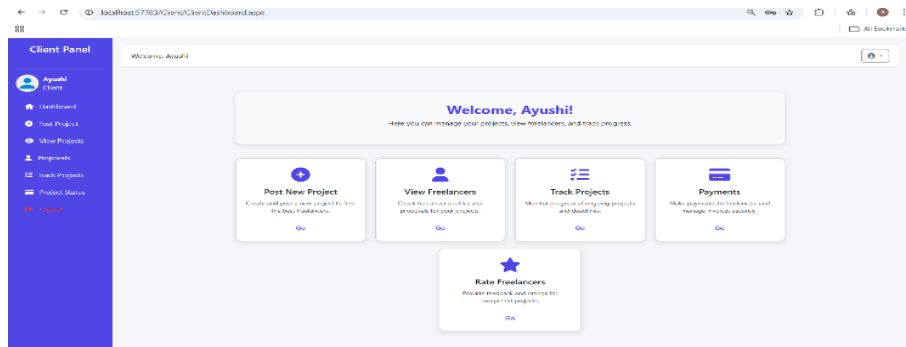
Screenshot 10: View Rating

This screen shows ratings and feedback provided by clients, helping freelancers build credibility and trust.



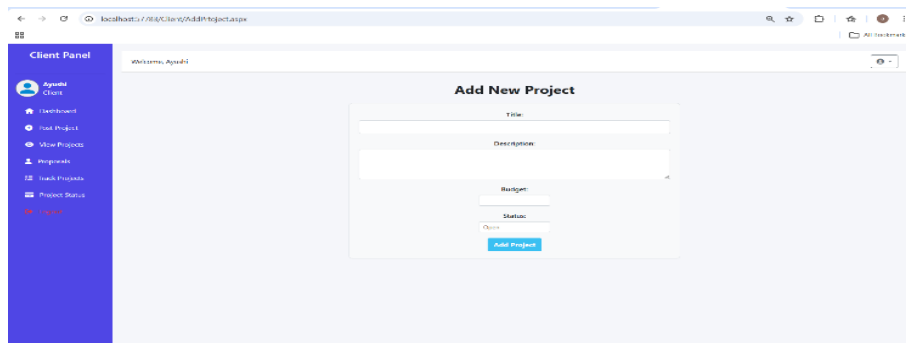
Screenshot 11: Client:

The client dashboard provides access to project management features such as posting projects and reviewing proposals



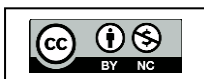
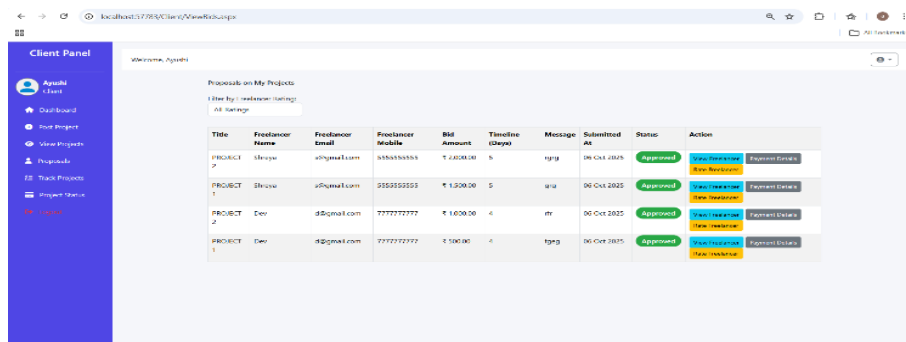
Screenshot 12: Add Project

This page allows clients to create and post new projects by entering details like title, description, budget, and deadline.



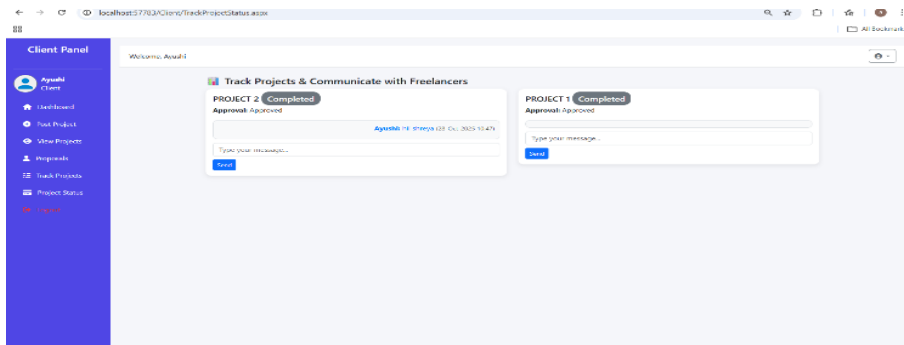
Screenshot 13: View Proposals on My project

This screen displays all proposals submitted by freelancers, allowing clients to compare and select suitable candidates.



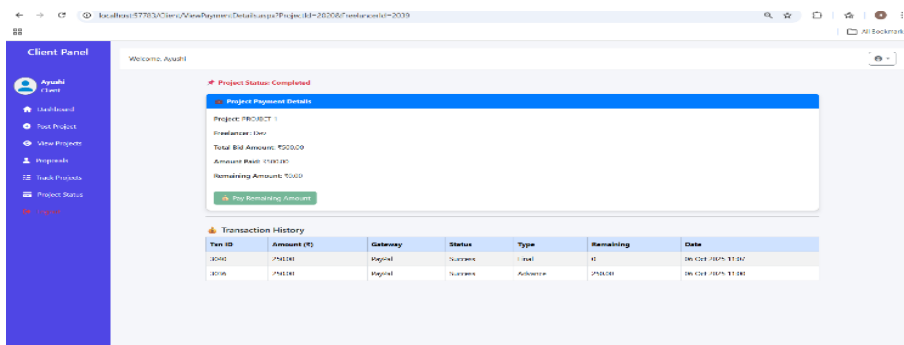
Screenshot 14: Track Project and chat with

This interface enables clients to track project progress and communicate directly with freelancers.



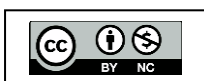
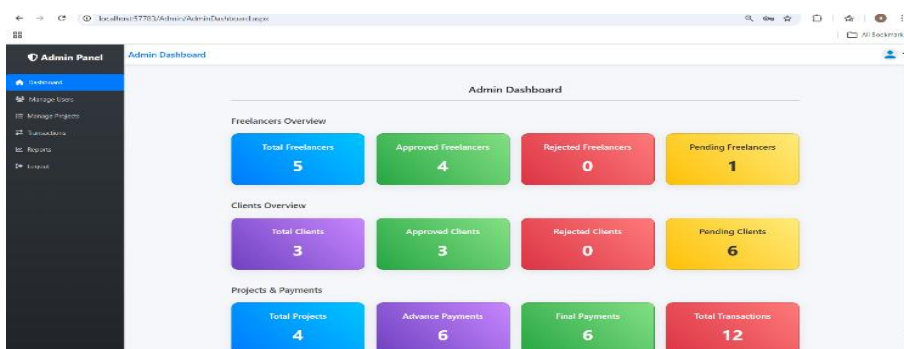
Screenshot 15: View Project Transaction and Status

This page shows payment status and project completion details, ensuring transparency in transactions.



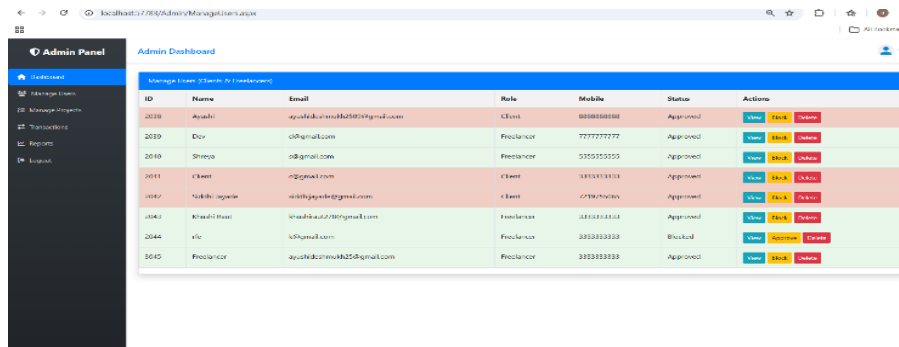
Screenshot 16: Admin Dashboard

The admin dashboard provides access to system-level controls such as managing users, projects, and transactions.



Screenshot 17: Manage Freelancer and Client

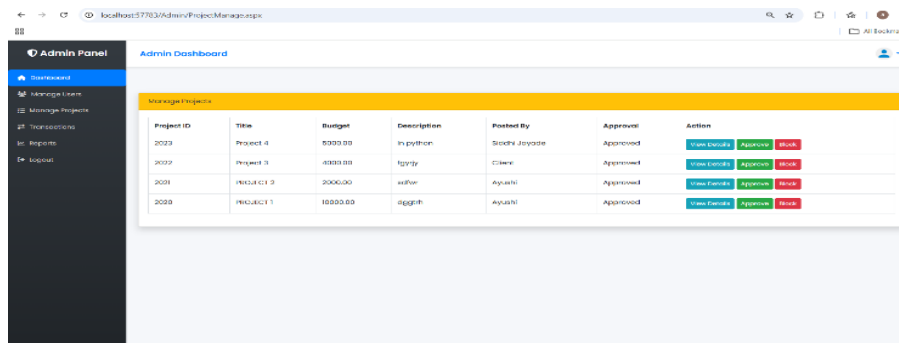
This page allows the admin to monitor and manage user accounts including freelancers and clients.



ID	Name	Email	Role	Mobile	Status	Actions
2028	Ayushi	ayushidc@stud100@gmail.com	Client	8888888888	Approved	View Block Delete
2030	Div	id@gmail.com	Freelancer	7777777777	Approved	View Block Delete
2010	Shreya	id@gmail.com	Freelancer	5555555555	Approved	View Block Delete
2041	Client	id@gmail.com	Client	3333333333	Approved	View Block Delete
2047	Shreya Jayade	shrejayade@gmail.com	Client	2787979765	Approved	View Block Delete
2043	Shreya Raut	shreya.raut278@gmail.com	Freelancer	8844444444	Approved	View Block Delete
2044	idc	id@gmail.com	Freelancer	3333333333	Blocked	View Unblock Delete
2045	Freelancer	ayushidc@stud100@gmail.com	Freelancer	3333333333	Approved	View Block Delete

Screenshot 18: Manage Project

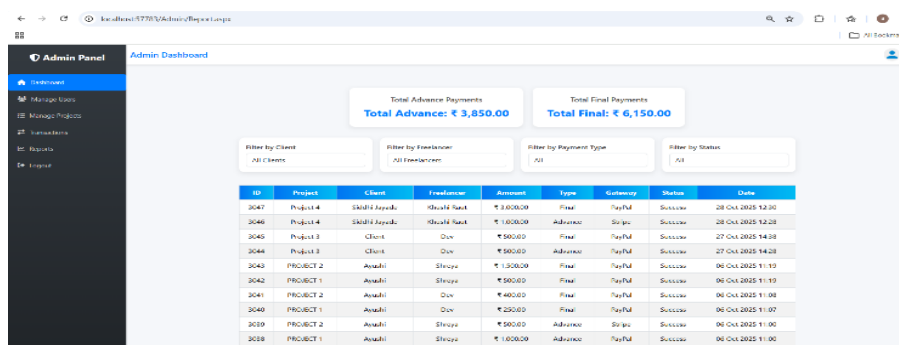
This screen enables the admin to view and control all projects available on the platform.



Project ID	Title	Budget	Description	Posted By	Approved	Action
2023	Project 4	9000.00	In python	Shreya Jayade	Approved	View Details Approve Block
2022	Project 3	4000.00	egypy	Client	Approved	View Details Approve Block
2021	PROJECT 2	2000.00	adffw	Ayushi	Approved	View Details Approve Block
2020	PROJECT 1	1000.00	egghff	Ayushi	Approved	View Details Approve Block

Screenshot 19: Sorted Transaction

This page displays all transactions in a structured format for easy monitoring and record management.



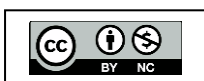
Total Advance Payments

Total Advance: ₹ 3,850.00

Total Final Payments

Total Final: ₹ 6,150.00

ID	Project	Client	Freelancer	Amount	Type	Gateway	Status	Date
2047	Project 4	Shreya Jayade	Shreya Raut	₹ 3,000.00	Final	PayPal	Success	28 Oct 2025 12:30
2046	Project 4	Shreya Jayade	Shreya Raut	₹ 1,000.00	Advance	Stripe	Success	28 Oct 2025 12:28
2045	Project 3	Client	Div	₹ 500.00	Final	PayPal	Success	27 Oct 2025 14:28
2044	Project 3	Client	Div	₹ 500.00	Advance	PayPal	Success	27 Oct 2025 14:28
2043	PROJECT 2	Ayushi	Shreya	₹ 1,200.00	Final	PayPal	Success	06 Oct 2025 11:19
2042	PROJECT 1	Ayushi	Shreya	₹ 500.00	Final	PayPal	Success	06 Oct 2025 11:19
2041	PROJECT 2	Ayushi	Div	₹ 400.00	Final	PayPal	Success	06 Oct 2025 11:08
2040	PROJECT 1	Ayushi	Div	₹ 250.00	Final	PayPal	Success	06 Oct 2025 11:07
2039	PROJECT 2	Ayushi	Shreya	₹ 500.00	Advance	Stripe	Success	06 Oct 2025 11:00
2038	PROJECT 1	Ayushi	Shreya	₹ 1,000.00	Advance	PayPal	Success	06 Oct 2025 11:00



V. CONCLUSION

The development of the Freelancing Platform using ASP.NET C# successfully demonstrates an efficient and secure system for connecting clients and freelancers. The platform allows clients to post projects, review proposals, select suitable freelancers, and manage payments, while freelancers can browse projects, submit proposals, and deliver completed work. The inclusion of a ratings and feedback system enhances trust, accountability, and transparency within the platform.

Through testing, the system has shown reliability in handling user authentication, project management, proposal evaluation, and secure payment transactions. It simplifies the freelancing process by centralizing communication, task tracking, and feedback in a single web-based environment.

The project fulfills its objectives by providing a user-friendly, scalable, and secure solution for online freelancing. Future enhancements could include mobile application integration, real-time notifications, advanced search and filtering options, and AI-based project recommendations to further improve usability and adoption. Overall, the platform serves as a practical tool for facilitating remote work and fostering collaboration between clients and freelancers.

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