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COLLEGE OF ENGINEERING
(A U T O N O M O U S)

FREELANCE HUB

20INMCA509 - Mini Project 2

Scrum Master

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ABSTRACT

Freelance Hub is an Online Freelance Job Management System which is an innovative web-based platform designed to facilitate seamless collaboration between clients and freelancers. The platform provides a robust set of features to streamline job posting, searching and project management processes. Key features include job posting and proposal management, direct freelancer access, search jobs and freelancers, integrated chat, and an AI-powered chatbot for common queries. Advanced features for premium users include enhanced visibility, certification badges, and customized job alerts, including sudden notifications for new job postings. The platform also offers robust administrative tools for managing users and resolving disputes, along with a suite of project management tools for tracking progress and facilitating communication. The platform integrates Scrum project management principles to enhance project agility, communication, and client satisfaction through iterative development cycles and continuous improvement.

In the Freelance Hub, project management follows a structured Scrum process to facilitate collaboration between clients and freelancers. Clients initiate projects by posting detailed descriptions of their requirements, which freelancers respond to with proposals outlining their approach and timelines. Once a client selects a freelancer, they engage in an initial meeting to define specific tasks, known as User Stories, which are organized into a Product Backlog. During Sprint Planning sessions, clients and freelancers prioritize tasks for short-term implementation, forming a Sprint Backlog. Daily updates (Daily Scrum) allow freelancers to report progress and address challenges, ensuring transparency and adaptation throughout the project. At the end of each Sprint, a review session (Sprint Review) enables clients to evaluate completed work and provide feedback, guiding subsequent iterations for continuous improvement. This iterative approach, supported by clear communication and feedback loops, ensures projects evolve efficiently to meet client expectations and achieve successful outcomes in the Freelance Hub environment.

USERS

1. **Client:** Individuals or organizations posting job opportunities and managing projects.
2. **Freelancer:** Independent professionals offering services and delivering project outcomes.
3. **Administrator:** Oversees platform operations, manages user interactions, and ensures platform integrity.

MODULES FOR MINI PROJECT

Client Features:

1. **Profile Management:** Clients manage their profile details, including name, email, phone number, and project history. This ensures accurate representation and effective communication within the platform.
2. **Job Posting:** Enables clients to create comprehensive job descriptions specifying project scope, requirements, deadlines, and budget constraints. This feature initiates project opportunities and attracts suitable freelancers.
3. **Proposal Management:** Clients review and manage proposals submitted by freelancers, evaluating skills, experience, and proposed project costs. Effective proposal management facilitates informed decision-making and project alignment.
4. **Direct Freelancer Access:** Provides clients direct access to freelancer profiles and facilitates direct communication and proposal submissions. This streamlined process accelerates freelancer selection and project initiation.

5. **Rating and Review:** Clients provide feedback on freelancer performance upon project completion, fostering transparency and enhancing future freelancer engagements based on past experiences.
6. **Complaint Reporting:** Allows clients to report issues or concerns about freelancer conduct to administrators. This ensures accountability and maintains professionalism throughout project interactions.
7. **Progress Tracking:** Clients monitor project progress through real-time updates and progress reports from freelancers. This feature supports effective project oversight and timely decision-making.
8. **Tasks or User Stories Management:** Clients define project tasks or user stories, specifying details, priority, and deadlines. This feature organizes project requirements and guides freelancer activities throughout project execution.
9. **Payment:** Secure payment functionality enables clients to process payments to freelancers directly through the platform. This feature ensures financial transactions are secure, transparent, and seamlessly integrated into project management.
10. **Scrum Meetings:** Scheduled Sprint Planning, Daily Standups, and Sprint Reviews facilitate collaboration and alignment between clients and freelancers. These meetings ensure project goals are met, challenges addressed, and progress tracked effectively.
11. **Password Reset:** Clients securely reset their passwords, ensuring account security and continuous platform access management.
12. **Logout:** Secure logout functionality safeguards client accounts by ending active sessions securely and preventing unauthorized access.

Freelancer Features:

1. **Profile Management:** Freelancers manage their profile details, including name, email, phone number, skills, experience, portfolio, and client feedback. This comprehensive profile enhances visibility and credibility among potential clients.
2. **Job Search and Proposal Submission:** Freelancers search for projects aligned with their skills and interests, submitting tailored proposals addressing client requirements. This feature maximizes project matching and freelancer visibility.
3. **To-Do List:** Integrated task management enables freelancers to track project tasks, deadlines, and priorities. This organized approach enhances productivity and ensures timely project deliverables.
4. **Daily Progress Updates:** Freelancers provide clients with daily project progress updates and status reports. This regular communication fosters transparency and client confidence in project execution.
5. **Rating and Review Clients:** Freelancers rate and review clients based on interaction quality and professionalism. Client reviews inform other freelancers and contribute to a trusted platform community.
6. **Complaint Reporting:** Enables freelancers to report client-related issues or concerns to administrators for resolution. This feature upholds platform standards and ensures fair and respectful interactions.
7. **Notifications:** Real-time notifications alert freelancers to project schedules, deadlines, new messages, and platform updates. This feature keeps freelancers informed and responsive to client communications.



8. **Chat System:** Integrated chat facilitates immediate communication between freelancers and clients. This feature supports real-time collaboration, clarification of project details, and efficient issue resolution.
9. **Password Reset:** Freelancers securely reset their passwords, ensuring account security and uninterrupted platform access management.
10. **Premium Upgrade:** Offers freelancers enhanced platform features such as increased visibility in search results, certification badges, and personalized job alerts. This upgrade maximizes freelancer opportunities and project engagements.
11. **Logout:** Secure logout functionality safeguards freelancer accounts by ending active sessions securely, maintaining account security and privacy.

Administrator Features:

1. **User Management:** Administrators manage user accounts, including activation, deactivation, and permissions for clients and freelancers. This oversight ensures platform integrity and compliance with operational standards.
2. **Complaint Handling:** Reviews and resolves client and freelancer complaints, ensuring fair resolution and maintaining a professional platform environment.
3. **Analytics Dashboard:** Detailed analytics provide administrators with insights into platform performance, user activity trends, job dynamics, and operational metrics. This feature supports data-driven decision-making and strategic platform enhancements.

MODULES FOR MAIN PROJECT

- **Enhanced Search and Filtering:** Utilizes advanced search filters and machine learning recommendations to match freelancers with projects tailored to client needs, optimizing project pairing and freelancer satisfaction.
- **AI Chatbot:** Implements an AI-powered chatbot to automate responses to common inquiries from clients and freelancers, enhancing user support efficiency and accessibility.
- **Premium Upgrade for Freelancers:** Provides premium features such as enhanced visibility, certification badges, and personalized job alerts to freelancers, promoting professional growth and client engagement.
- **Mobile App Conversion:** Develops a mobile application using Flutter to extend platform accessibility and user experience on smartphones and tablets, ensuring seamless engagement and project management on the go.

TECHNOLOGIES USED:

- **Frontend:** Html,CSS,JS,JQuery
- **Backend Framework:** Django
- **Database Management System:** SQLite
- **Mobile Application Development:** React Native or Flutter

RESEARCH TOPIC:

Enhancing Job Recommendation Systems for Freelance Platforms Using Machine Learning

