



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

# FREELANCE HUB

20INMCA506 – Main Project

Scrum Master

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**DEPARTMENT OF  
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# ABSTRACT

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FreelanceHub is a web-based platform that connects clients and freelancers, streamlining project posting, proposals. It incorporates Scrum principles to ensure collaborative project execution. The platform offers a dynamic environment for freelancers and clients, enabling seamless collaboration and interaction. Clients can host events, quizzes, and hire freelancers as an employee. Freelancers can create detailed profiles, receive project recommendations, and communicate with clients through integrated video/audio calls. The platform ensures robust security with advanced face verification to prevent fraud, especially after multiple failed login attempts. Additionally, an AI chatbot assists users by answering frequently asked questions, further improving user experience. The platform integrates WhatsApp notifications, allowing users to receive alerts for important updates such as project status, payment reminders, and event notifications, ensuring real-time communication. A smart recommendation system helps both freelancers and clients find the most suitable matches for their projects or profiles. Overall, the platform is designed to facilitate effective, secure, and efficient freelancing experiences for both clients and freelancers.

## 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**

### **Client Features:**

1. **Event Hosting:** Clients can create and host events and quizzes, offering prizes and rewards to participants.
2. **Freelancer Hiring:** Clients can search for and hire freelancers based on project needs.
3. **Project Recommendations:** Clients can receive recommendations for freelancers based on project requirements and freelancer profiles.
4. **WhatsApp Notifications:** Clients will receive important updates, project progress, payment reminders, and event notifications through WhatsApp.
5. **AI Chatbot for FAQs:** Clients can use an AI-driven chatbot for quick responses to common queries about the platform, projects, and freelancers.
6. **Video and Audio Calls:** Clients can communicate with freelancers using integrated video and audio calling features for real-time discussions.
7. **Face Verification for Security:** Freelancers will undergo face verification in case of multiple failed login attempts to prevent fraud and ensure authenticity.
8. **Premium Subscription Access:** Clients must upgrade to a premium subscription after posting three projects to unlock additional features such as featured job listings, analytics, and private project posting.



**Freelancer Features:**

- 1. Project Recommendations:** Freelancers will be recommended projects based on their skills, experience, and past work.
- 2. WhatsApp Notifications:** Freelancers will receive notifications via WhatsApp for project updates, payment reminders, and other important alerts.
- 3. Face Verification for Security:** Freelancers will undergo face verification in case of multiple failed login attempts to prevent fraud and ensure authenticity.
- 4. AI Chatbot for FAQs:** Freelancers can use the AI-driven chatbot to assist with common platform-related queries.
- 5. Video and Audio Calls:** Freelancers can communicate with clients through integrated video and audio calls to discuss project details.
- 6. Premium Subscription Access:** Freelancers must upgrade to a premium subscription after completing three projects to unlock additional features such as unlimited proposals, featured profiles, and advanced analytics

**Administrator Features:**

- 1. Fraud Detection:** Admins can manage fraud detection measures and review flagged accounts.
- 2. Manage AI Chatbot:** Admins can update the knowledge base of the AI chatbot, ensuring it provides accurate and relevant responses to user queries.
- 3. Approve/Reject Events and Quizzes:** Admins can review and approve or reject events and quizzes hosted by clients to ensure they align with platform policies.



## **TECHNOLOGIES USED:**

**Frontend:** HTML, CSS, JavaScript, JQuery

**Backend:** Django

**Database Management System:** MariaDB

**Other Technologies:** WebRTC (for video/audio calls), AI/ML Frameworks (for AI chatbot and recommendations), Twilio API (for WhatsApp notifications), OpenCV (for face verification)

