IIT372-2 Project II

One-Page Project Proposal

Title of the Project: *The Freelance Contract Verifier with Blockchain Security, Group 13*

Problem and Proposed Solution:

Problem: *Creating and managing legally binding contracts between clients and freelancers globally is often complex, time-consuming, and prone to disputes due to a lack of transparency, tampering risks, and inefficient verification processes.*

Solution: *A mobile-first application that enables seamless creation, signing, and storage of digital contracts with mandatory blockchain timestamping on Polygon PoS. The solution ensures tamper-proof agreements with cryptographic proof of existence, time of signing, and optional legal review by lawyers.*

Five Main Functionalities:

1. **Contract Creation & Digital Signing**: Clients create contracts using templates or custom PDFs with secure digital signatures from all parties.
2. **Blockchain Timestamping:** Every signed contract is automatically anchored to the Polygon blockchain, providing immutable proof of existence and signing time.
3. **Legal Review System:** Optional paid legal review where lawyers can edit and approve contracts before signing.
4. **Tamper-Proof Verification:** SHA-256 hashing combined with blockchain records enables independent verification of contract integrity.
5. **Encrypted Document Vault:** Secure storage and management of all signed contracts with encryption and access control.

Novelty:

1. **Blockchain Timestamping:** Contracts anchored on the Polygon PoS blockchain for immutability, auditability, and transparent proof of signing time.
2. **Tamper-Proof Security:** SHA-256 hashing + blockchain anchoring ensure real-time detection of document alterations.
3. **Integrated Legal Review:** Ability to get in-app legal review service after payment, enabling lawyers to co-edit and approve contracts within the platform, eliminating external processes.