Web 3 LinkedIn: Decentralized Professional Networking Platform
Scope of Work Document
User Story

As a professional, I need a comprehensive decentralized platform that facilitates secure and meaningful networking opportunities. The platform should integrate advanced features for profile management, networking, communication, and monetization while leveraging Web 3 technologies for privacy and security. I should be able to connect with industry experts, manage my professional identity, and engage in various interactions and transactions using a user-friendly and secure interface.

1. Platform Requirements

1.1 Core Features

Decentralized Identity Management:

- **Description:** Implement Decentralized Identifiers (DID) to provide users with control over their digital identities and personal data.
- **Benefits:** Enhanced privacy, security, and user autonomy.

Advanced Networking Capabilities:

- **Expert Access:** Users can connect with industry experts, mentors, and peers.
- **Efficient Scheduling:** Integrate smart contracts for scheduling appointments and meetings.
- **Secure Messaging:** Enable end-to-end encrypted messaging between users.
- **Benefits:** Improved networking, streamlined interactions, and secure communication.

Monetization Features:

- **Expertise Monetization:** Allow users to set rates and receive payments for consultations and professional services.
- **Professional Interactions:** Facilitate transactions for advice, consultations, and other interactions.
- **Benefits:** New revenue streams for professionals and enhanced value for users.

Customizable User Profiles:

- **Description:** Users can create and customize detailed profiles showcasing their skills, experiences, and achievements.
- **Benefits:** Improved personal branding and enhanced networking opportunities.

Decentralized Content Storage:

- **Description:** Use decentralized storage solutions like IPFS or Filecoin for storing user content and data.
- **Benefits:** Increased security, reliability, and availability of data.

Blockchain-Based Credential Verification:

- **Description:** Verify credentials, certifications, and achievements through blockchain technology.
- **Benefits:** Authenticity and reduced fraud.

Smart Contract Automation:

- **Description:** Automate processes such as scheduling, payments, and agreements using smart contracts.
- **Benefits:** Streamlined operations and reduced reliance on intermediaries.

Enhanced Search and Discovery:

- **Description:** Implement advanced search algorithms and filters to help users find relevant connections and opportunities.
- **Benefits:** Better user experience and efficiency in finding connections and opportunities.

1.2 General Platform Elements

User Dashboard:

- **Profile Management:** Tools for editing and managing personal and professional information.
- **Notifications:** Alerts for connection requests, messages, and other updates.

Networking Tools:

- **Connection Requests:** System for sending and receiving connection requests.
- **Messaging System:** Secure, encrypted messaging interface.

Monetization Tools:

- **Payment Gateway:** Integration for handling payments and transactions.
- **Rate Setting:** Tools for users to set rates for consultations and services.

Content Management:

- **Portfolio Display:** Feature for showcasing work samples, projects, and achievements.
- **Document Storage:** Secure storage for important documents and credentials.

Search and Discovery:

- **Advanced Search:** Filters and search options for finding professionals, opportunities, and content.
- **Recommendation Engine:** Personalized suggestions for connections and content.

2. Technical Requirements

Integration of Web 3 Technologies:

- **DID Integration:** Implement decentralized identifiers for secure user authentication.
- **Smart Contracts:** Use smart contracts for automating transactions and agreements.

Blockchain Integration:

- **Platform:** Ethereum, Polygon
- **Smart Contracts:** Developed in Solidity

Frontend Development:

- **Frameworks:** React.js, Next.js
- **Libraries:** Web3.js, Ethers.js

Backend Development:

- **Languages:** Node.js, Solidity
- **Frameworks:** Express.js, Truffle
- **Database:** Decentralized storage solutions (e.g., IPFS, Filecoin)

Security:

- **Encryption:** End-to-end encryption for messages and data.
- **Authentication:** Multi-factor authentication and DID.

3. Gameplay Scenarios

Networking and Collaboration:

- **Objectives:** Connect with professionals, schedule meetings, and engage in collaborative projects.
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- **Gameplay:** Utilize networking tools and features for effective professional interactions.

Monetization and Transactions:

- **Objectives:** Set rates for services, receive payments, and manage financial transactions.
- **Gameplay:** Use monetization tools to manage and track professional services and transactions.

Profile Management:

- **Objectives:** Build and showcase a professional profile, manage content, and engage with other users.
- **Gameplay:** Customize profiles, manage content, and interact with the network.

4. Additional Development and Integration Support Engineers

1 Blockchain Integration Engineer:

- **Role:** Oversee the integration of blockchain technologies and smart contracts.

2 Frontend Developers:

- **Role:** Build and implement the user interface and user experience using React.js and Next.js.

2 Backend Developers:

- **Role:** Develop and manage backend services, including smart contracts and database integration.

1 UI/UX Designer:

- **Role:** Design intuitive and effective user interfaces and experiences.

1 Security Expert:

- **Role:** Ensure the platform's security and data privacy through encryption and authentication measures.

Conclusion

The Web 3 LinkedIn project aims to create a revolutionary decentralized professional networking platform that leverages advanced Web 3 technologies for enhanced privacy, security, and user control. With a focus on seamless networking, secure interactions, and effective monetization, the platform will provide a modern solution for professional engagement in the digital age.
