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TECHNOLOGY, THENI-625531

Digital Asset Management On The Ethereum Blockchain”

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

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1.INTRODUCTION

1.1 PROJECT OVERVIEW

Digital Asset Management on the Ethereum Blockchain is a project aim leveraging the capabilities of blockchain technology,specifically the

Ethereum network, to revolutionize the way digital assets are managed, tracked, and transacted. This project seeks to address various pain points associated with traditional digital asset management systems, such as lack of transparency, security concerns, and limited interoperability. Implementing a decentralized ledger on the Ethereum blockchain ensures that all transactions and changes related to digital assets are recorded and can be viewed by relevant parties. This transparency minimizes disputes and provides a clear audit trail. Utilizing blockchain's cryptographic techniques and decentralized nature enhances security, making it extremely difficult for unauthorized parties to tamper with or steal digital assets. Smart contract can also automate certain aspects of asset management, reducing the need for intermediaries.

By building on the Ethereum network, the project aims to leverage its well-established ecosystem and standards. This allows for seamless interaction with other Ethereum-based applications and smart contracts, potentially opening up new avenues for asset utilization. Smart contracts can be designed to enforce specific ownership rules and conditions. This ensures that digital assets are managed in accordance with predefined criteria, reducing the risk of misuse or mismanagement. Blockchain technology has the potential to streamline various aspects of digital asset management, including record-keeping, authentication, and transaction processing. This can lead to reduced operational costs over traditional centralized systems. Key Components of the Project These self-executing contracts with the terms directly written into code form the backbone of the system. They automate asset management tasks based on predefined conditions, such as transfer of ownership upon certain criteria being met. The project will likely include a user-friendly interface, possibly a web or mobile application, to interact with the digital asset management system. This interface would allow users to view, transfer, and modify the status of their assets. Educating users on how to interact with the digital asset management system and understand blockchain technology.

1.2 PURPOSE

The purpose of implementing Digital Asset Management on the Ethereum Blockchain is to leverage the unique capabilities of blockchain technology to transform the management, tracking, and transaction of digital assets

- ownership and Control
- Cost Efficiency

- Future-Proofing Asset Management
- Interoperability and Integration

By combining the strengths of blockchain technology, particularly on the Ethereum network, with digital asset management principles this project aims to revolutionize the way digital assets are handled, providing benefits in terms of security, transparency, efficiency, and accessibility.

2.LITERATURE SUREY

2.1 EXISTING PROBLEM

Currently, digital asset management on the Ethereum blockchain faces a myriad of challenges that impede its widespread adoption and effectiveness. One of the foremost issues is scalability. The Ethereum network has struggled to handle high transaction volumes, resulting in slower confirmation times and exorbitant gas fees during times of network congestion. This makes it impractical for managing a large volume of digital assets efficiently.. Security and privacy are also pressing issues. The transparent nature of blockchain technology means that asset ownership and transaction history are publicly accessible, potentially exposing sensitive information. Additionally, the risk of hacks, scams, or vulnerabilities in smart contracts poses a significant threat to the security of digital assets.

2.2 REFERENCES

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2.3 PROBLEM STATEMENT DEFINITION

The management of digital assets on the Ethereum blockchain presents a series of complex challenges that hinder the seamless handling, security, and accessibility of these assets. These challenges encompass scalability issues within the Ethereum network, resulting in sluggish transaction processing times and elevated transaction fees during periods of network congestion. Additionally, interoperability between different blockchain networks and protocols remains a significant hurdle, impeding the fluid movement of digital assets across various platforms.

3. IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP

IDEATION PHASE & BRAINSTORM

During the ideation phase of developing a digital asset management system on the Ethereum blockchain, it's crucial to gather a diverse team with expertise in blockchain technology, smart contract development, user experience design, legal compliance, and security. Here's a structured brainstorming session to generate innovative ideas and potential solutions.

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- **Scalability Solutions:**
 - Explore layer-2 scaling solutions like Optimistic Rollups or zk-Rollups to improve transaction throughput and reduce gas fees.
 - Research and adopt widely accepted token standards (ERC-20, ERC-721, etc.) to ensure seamless interoperability with other blockchain networks.
- Implement cross-chain bridges or interoperability protocols to facilitate the movement of assets between different blockchains.

User Experience Enhancement:

- Design an intuitive and user-friendly interface for wallet setup and management, integrating features like multi-factor authentication and recovery options.
- Implement a simplified onboarding process with user-friendly tutorials and guides for non-technical users.

Privacy and Security Measures:

- Explore privacy-focused solutions like zk-SNARKs or zk-STARKs to provide users with options for private transactions and data protection.

- Conduct thorough security audits of smart contracts and employ best practices for secure coding to mitigate potential vulnerabilities.

Sustainability and Environmental Impact:

- Explore and transition to more eco-friendly consensus mechanisms, such as Proof of Stake (PoS) or Proof of Authority (PoA), to reduce energy consumption.
- Implement carbon offset initiatives or contribute to blockchain sustainability projects.

Remember to document and prioritize these ideas based on feasibility, impact, and alignment with the project's vision. Additionally, engage with the blockchain community and potential users to gather feedback and refine these concepts further.

4.REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENTS

The functional requirements for a system describe what system do.

- Interoperability and Standards
- User Experience Enhancement:
- Standardization and Governance
- Data Integrity and Metadata Management:

4.2 NON-FUNCTIONAL REQUIREMENTS

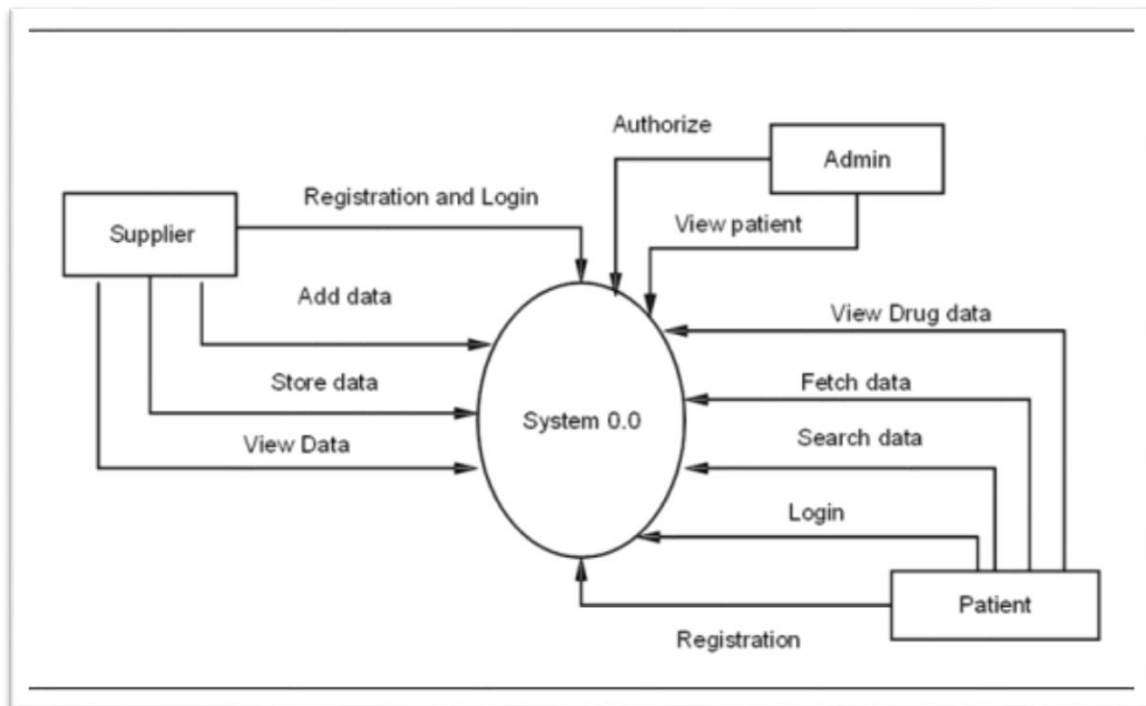
- Compliance and Legal Considerations

Performance

Sustainability and Environmental Impact:

5.PROJECT DESIGN

5.1 DATA FLOW DIAGRAMS & USER STORIES



5.2 SOLUTION ARCHITECTURE

The solution architecture for digital asset management on the Ethereum blockchain involves a combination of backend, frontend, and blockchain components working in harmony. Below is an outline of the key elements and their interactions:

Backend Components:

Server:

This component manages the backend logic, handles requests from the frontend, interacts with the blockchain, and manages databases.

Database:

Stores critical information related to user accounts, digital assets, transaction history, and metadata associated with assets. It ensures data integrity and accessibility.

Blockchain Integration Layer:

Interfaces with the Ethereum blockchain through Ethereum nodes, allowing interaction with smart contracts and reading/writing data to the blockchain.

Smart Contracts:

Written in Solidity, these are deployed on the Ethereum blockchain to automate asset management processes, enforce rules, and facilitate transactions.

Frontend Components:

User Interface (UI): Provides an intuitive and user-friendly interface for users to interact with the platform. It includes pages for account management, asset creation/tokenization, transaction history, and privacy settings.

Wallet Integration: Interfaces with user wallets (e.g., MetaMask, Trust Wallet) for secure access and management of Ethereum accounts.

Privacy Settings: Allows users to choose privacy options for their transactions, such as public, semi-private, or fully private.

Compliance User Interface: Provides a user-friendly interface for users to complete KYC/AML processes and maintain compliance with regulatory standards.

Analytics Dashboard: Offers users a visual representation of their assets' performance, transaction history, and other relevant metrics.

Documentation and Support: Includes user guides, FAQs, and support channels (e.g., chat, email) to assist users.

Blockchain Layer:

Ethereum Nodes: Maintain connections to the Ethereum network for reading and writing data to the blockchain.

Decentralized Storage (e.g., IPFS): Stores metadata associated with digital assets in a secure, decentralized manner.

Blockchain Explorer: Allows users to view transaction details and asset ownership on the Ethereum blockchain.

Security and Infrastructure:

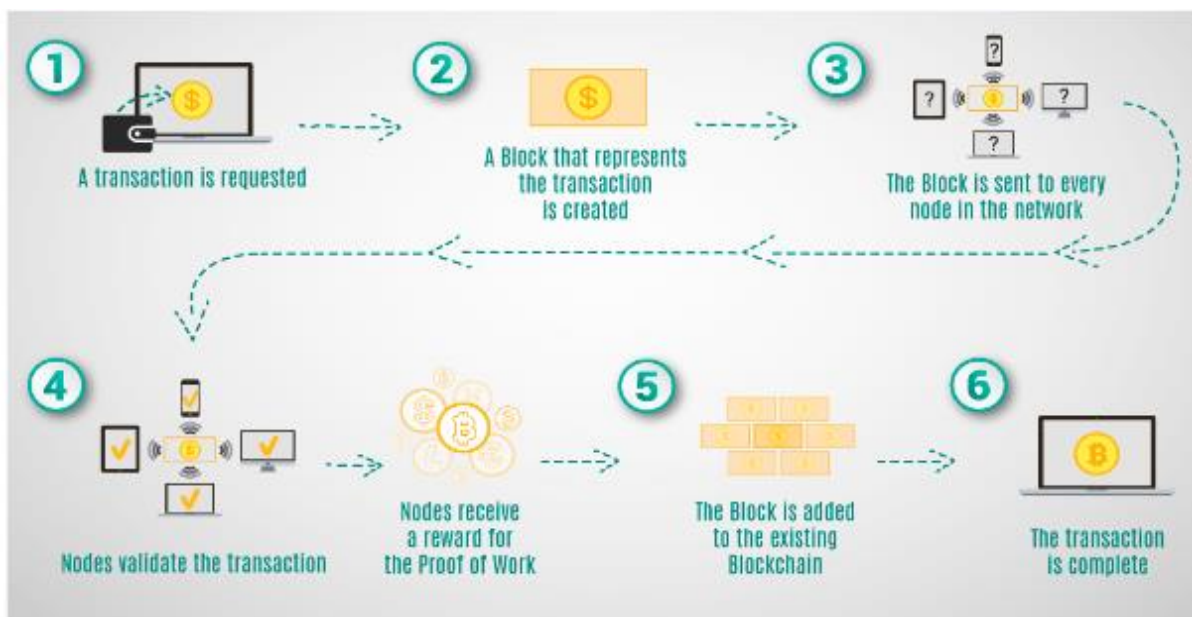
Security Measures: Includes firewalls, intrusion detection systems, encryption protocols, and regular security audits to safeguard user data and assets.

High Availability Architecture: Utilizes redundant servers, load balancing, and failover mechanisms to ensure continuous service availability.

6.PROJECT PLANNING AND SCHEDULING

6.1 TECHNICAL ARCHITECTURE

The technical architecture for a digital asset management system on the Ethereum blockchain is a sophisticated framework designed to facilitate secure, efficient, and transparent management of digital assets. At its core, the system leverages Ethereum nodes to establish a connection with the Ethereum network, enabling interactions with the blockchain. Smart contracts play a pivotal role, serving as the backbone for asset creation, tokenization, and various other operations. These contracts are written using Solidity, Ethereum's smart contract language, and are deployed on the blockchain. The architecture incorporates wallet management, ensuring the secure storage and access of user funds through integration with widely used wallets like MetaMask or Trust Wallet. To enhance privacy, components implementing zero-knowledge proofs and other privacy-focused technologies are integrated, allowing users to conduct private transactions. Additionally, compliance and regulatory tools are integrated to facilitate KYC/AML processes, ensuring adherence to legal requirements.



6.2 SPRINT PLANNING & ESTIMATION

Sprint Planning and Estimation for Digital Asset Management on the Ethereum Blockchain:

Sprint Duration: 2 week

Team Composition

- Blockchain Developers
- Frontend Developers
- Backend Developers
- UX/UI Designers
- QA/Testers
- Product Owner.

Privacy and Security Features:Implement privacy-focused features like zero-knowledge proofs for private transactions.

Estimation: 8 story points

Compliance and Regulatory Tools:Integrate KYC/AML processes

Estimation: 8 story points

Sprint Backlog:

Task 1: Set up user authentication and account creation.

Assigned To: Backend Developers

Estimation: 3 story points

Task 2: Implement wallet integration with MetaMask and Trust Wallet.

Assigned To: Frontend and Blockchain Developers

Estimation: 5 story points

Task 3: Develop smart contracts for asset creation and tokenization.

Assigned To: Blockchain Developers

Estimation: 8 story points

Task 4: Design and implement UI enhancements for wallet management.

Assigned To: UX/UI Designers and Frontend Developers

Estimation: 5 story points

Task 5: Integrate privacy features like zero-knowledge proofs.

Assigned To: Blockchain Developers

Estimation: 6 story points

Task 6: Incorporate compliance checks and regulatory tools.

Assigned To: Backend Developers

Estimation: 6 story points

Sprint Review and Retrospective:

Sprint Review: Demonstrate completed features to stakeholders, including user authentication, wallet setup, asset creation, smart contract integration, and privacy enhancements.

Sprint Retrospective: Reflect on what went well and areas for improvement. Discuss any challenges faced during the sprint and plan adjustments for the next sprint.

Sprint Deliverables:

- User authentication and account creation
- Wallet integration with MetaMask and Trust Wallet
- Smart contracts for asset creation and tokenization
- UI enhancements for wallet management
- Privacy features with zero-knowledge proofs
- Compliance checks and regulatory tools

6.3 SPRINT DELIVERY SCHEDULE

A sprint delivery schedule outlines the start and end dates of each sprint, as well as the planned dates for sprint-related events like sprint planning, review, and retrospective. Here's an example of a sprint delivery schedule for a hypothetical project:

object: Digital Asset Management on Ethereum Blockchain

Sprint Duration: 2 weeks

Sprint 1: Asset Creation and Wallet Setup

Sprint Planning: Oct 31, 2023

Goals: Implement user authentication, account creation, and wallet setup.

Sprint Review: Nov 13, 2023

Goals: Completed user authentication, account creation, and wallet setup.

Sprint Retrospective: Nov 13, 2023

Review of sprint achievements, lessons learned, and adjustments for next sprint.

Sprint 2: Smart Contracts and UI Enhancements

Goals: Develop smart contracts for asset creation, tokenization, and implement UI enhancements for wallet management.

Sprint Review: Nov 27, 2023

Goals: Completed smart contract integration and UI enhancements.

Please note that these dates are purely hypothetical and should be adjusted based on the specific requirements, complexity, and team capacity of your project. Additionally, factors like holidays and team availability should be taken into consideration when creating a sprint schedule.

Review of sprint achievements, lessons learned, and adjustments for next sprint.

Sprint 3: Privacy Features and Compliance Tools

Goals: Implement privacy features (zero-knowledge proofs) and integrate compliance tools.

Goals: Completed privacy features and compliance tools integration.

Review of sprint achievements, lessons learned, and adjustments for next sprint

Sprint 4: Finalize Testing and Prepare for Deployment.

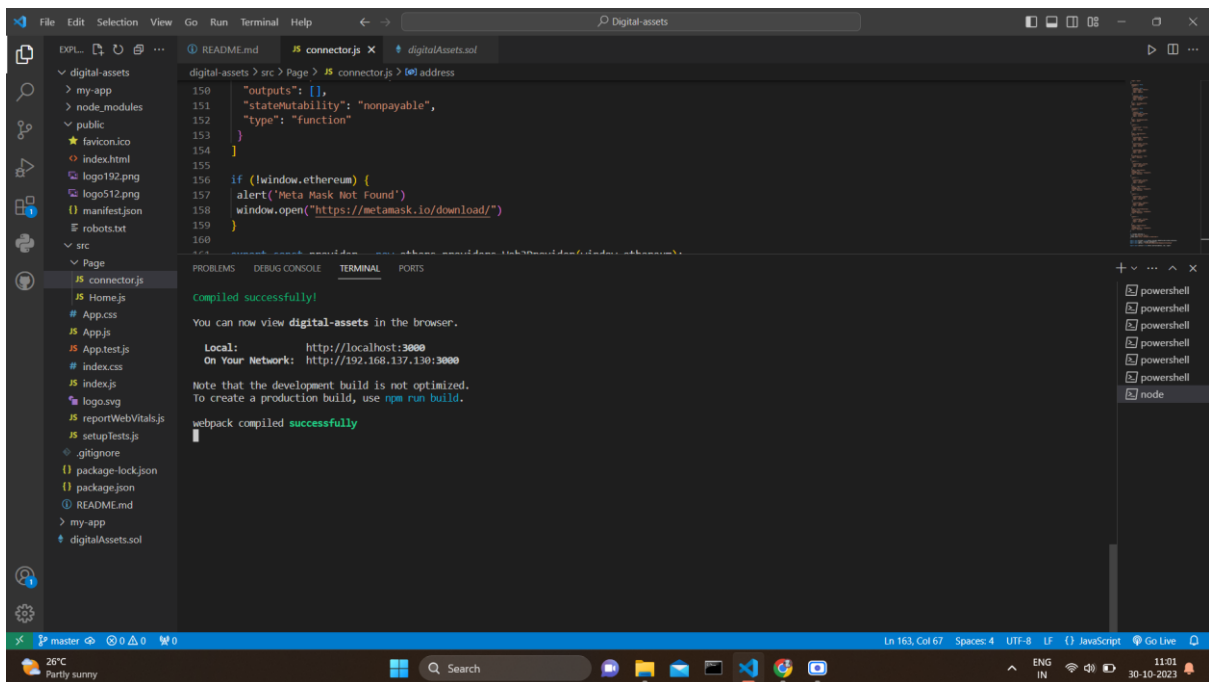
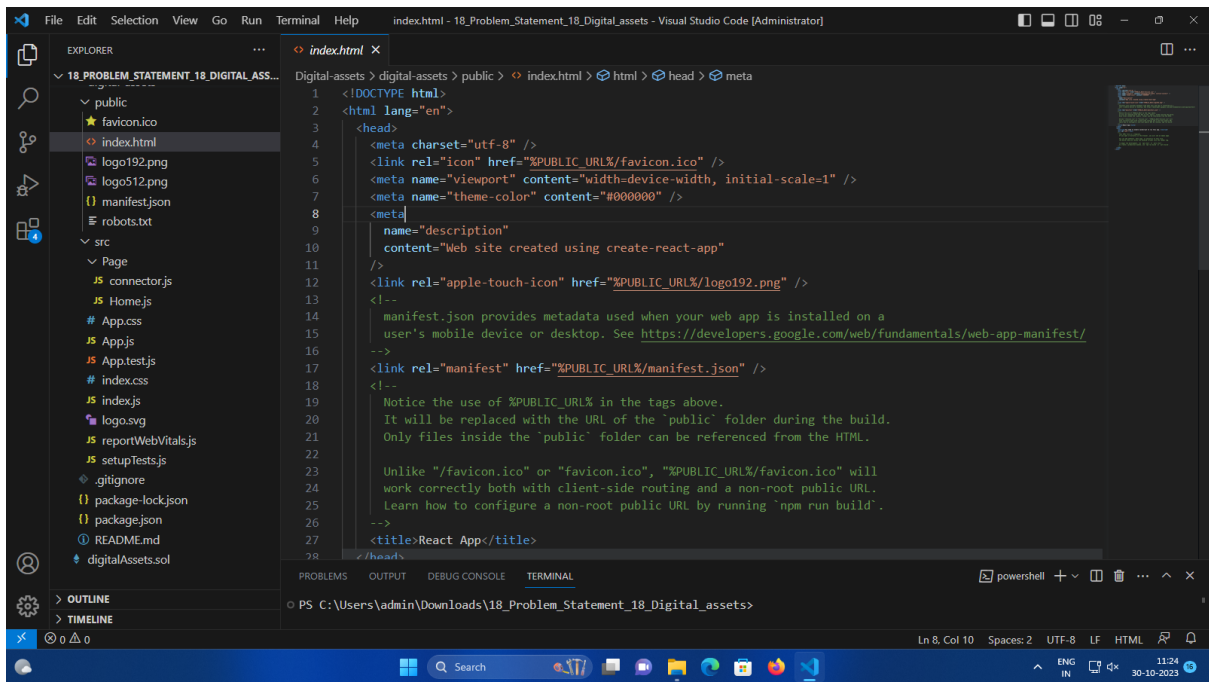
Goals: Finalize testing, address any remaining issues, and prepare for deployment.

Goals: Completed testing and preparations for deployment.

Review of sprint achievements, lessons learned, and project handover.

Please note that these dates are purely hypothetical and should be adjusted based on the specific requirements, complexity, and team capacity of your project. Additionally, factors like holidays and team availability should be taken into consideration when creating a sprint schedule.

7.CODING & SCHEDULING



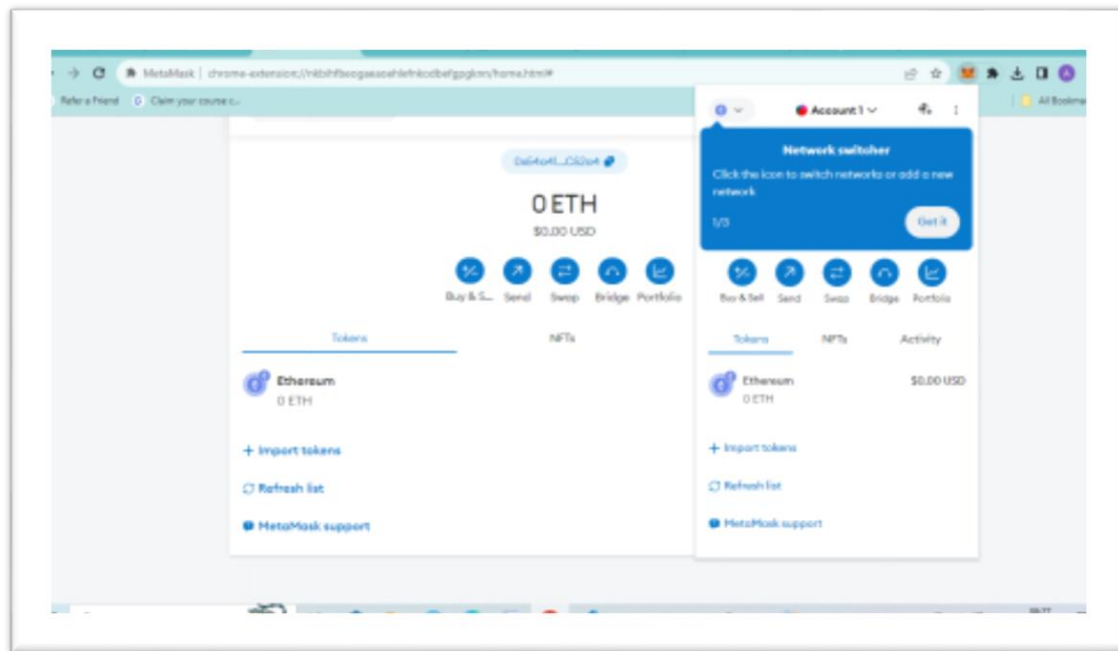
8.PERFORMANCE TESTING

Performance testing for a Digital Asset Management system on the Ethereum blockchain is crucial to ensure that the platform can handle the expected transaction load efficiently. Here's an outline of how you can approach performance testing:

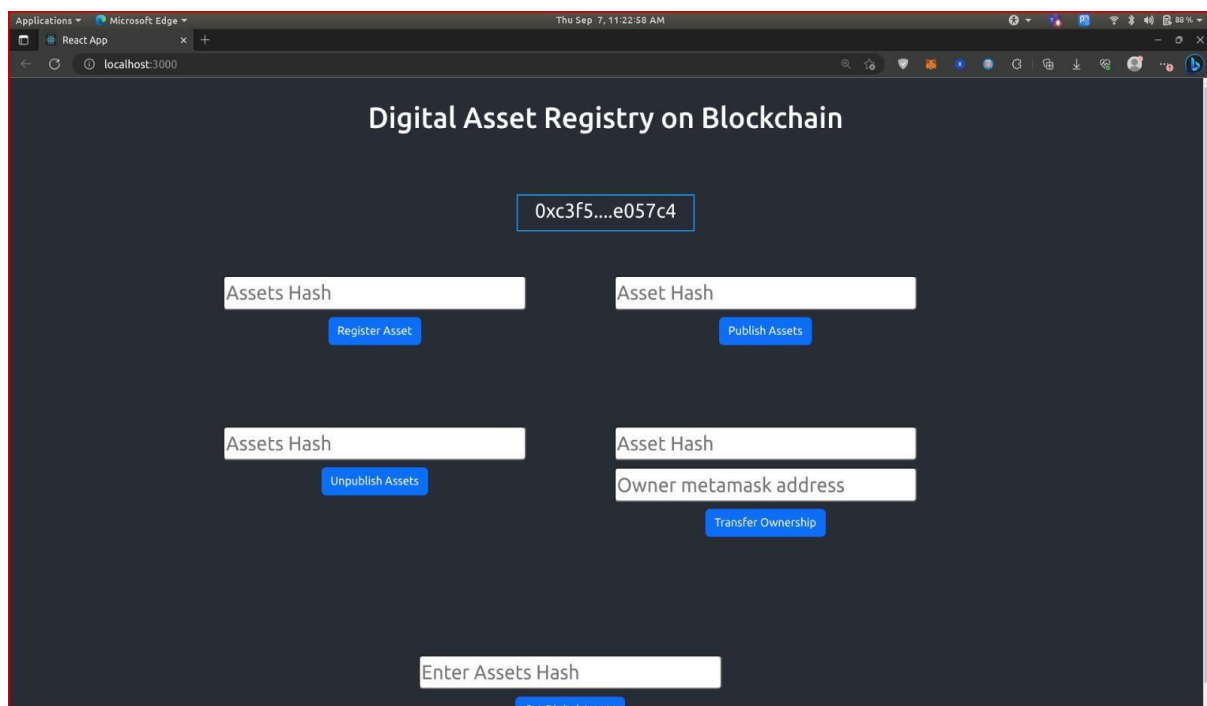
- Define Performance Metrics
- Test Environment Setup
- Load Testing
- Stress Testing
- Capacity Testing
- Scalability Testing
- Transaction Throughput
- Gas Fee Analysis
- Resource Utilization
- Security Testing
- Iterative Testing and Optimization

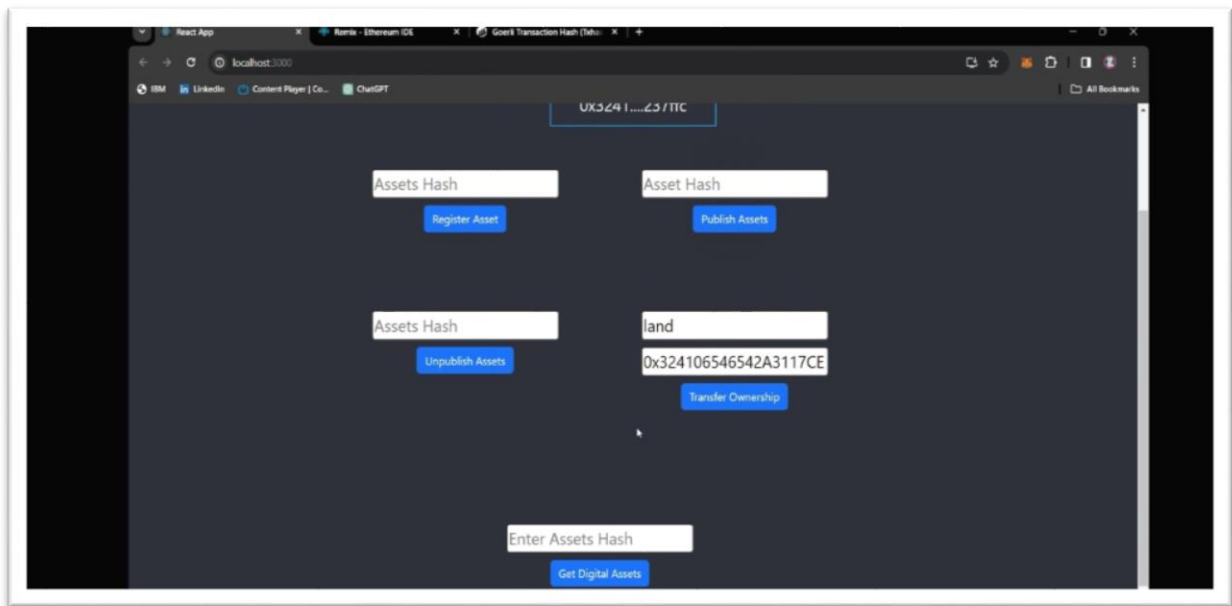
By rigorously testing the performance of the Digital Asset Management system, you can identify and address any performance bottlenecks, ensuring a reliable and responsive platform for users.

9.RESULTS



9.1 OUTPUT SCREENSHOTS





10.ADVANTAGES & DISADVANTAGES

ADVANTAGES

Security and Immutability:

Blockchain technology provides a highly secure and immutable ledger. Once data is recorded on the Ethereum blockchain, it cannot be altered or tampered with, ensuring the integrity of digital asset ownership records.

Transparency and Trust:

The transparent nature of blockchain allows for real-time tracking of asset ownership, transaction history, and provenance. This transparency builds trust among users and reduces the risk of fraudulent activities.

Decentralization and Peer-to-Peer Transactions:

By leveraging Ethereum's decentralized network, the platform eliminates the need for intermediaries, enabling direct peer-to-peer transactions. This reduces costs and speeds up the asset transfer process.

Global Accessibility:

The Ethereum blockchain operates on a global scale, providing access to a worldwide user base. This facilitates the seamless transfer and management of digital assets across borders without the need for traditional intermediaries or geographic restrictions.

Smart Contract Automation:

Smart contracts enable the automation of asset management processes. This includes tasks such as asset creation, tokenization, escrow services, and automatic execution of predefined conditions, reducing manual intervention and potential human errors.

Tokenization of Real-world Assets:

The platform can facilitate the tokenization of physical assets like real estate, art, or commodities. This process converts them into digital tokens, making them more divisible, transferable, and accessible to a wider audience.

Cost Efficiency:

Blockchain-based systems often result in cost savings compared to traditional asset management methods. They reduce the need for intermediaries, minimize administrative overhead, and streamline transaction processes.

Regulatory Compliance:

The platform can incorporate compliance features, such as KYC/AML checks, to adhere to legal requirements. This helps in maintaining regulatory compliance and ensures a trustworthy environment for users.

Enhanced User Experience:

The platform can offer an intuitive and user-friendly interface for wallet management, asset creation, and transaction handling. This enhances the overall user experience and encourages broader adoption.

Innovation and Interoperability:

Building on Ethereum opens up opportunities for innovation and collaboration within the broader blockchain ecosystem. Interoperability with other blockchain networks allows for the seamless movement of assets between different platforms.

Community Engagement and Ecosystem Growth:

The platform can foster an active community of users, developers, and stakeholders. This community-driven approach encourages collaboration, feedback, and the development of new features and functionalities.

Environmental Considerations:

Transitioning to Ethereum's Proof of Stake (PoS) consensus mechanism or other eco-friendly alternatives can address concerns about the environmental impact of blockchain technology. In summary, a Digital Asset Management

system on the Ethereum blockchain offers a secure, transparent, and efficient way to manage and transfer digital assets. It provides a foundation for innovation, compliance with regulatory standards, and a user-friendly experience, ultimately benefiting a wide range of users in the digital asset ecosystem.

DISADVANTAGES

Scalability Concerns:

Ethereum, like many public blockchains, faces scalability challenges. As the number of users and transactions increases, it may experience congestion, leading to slower transaction confirmation times and higher gas fees.

Gas Fees and Transaction Costs:

Users are required to pay gas fees for every transaction on the Ethereum network. During times of network congestion, these fees can become prohibitively expensive, especially for smaller transactions.

Environmental Impact:

Ethereum, as of my last knowledge update in January 2022, uses a Proof of Work (PoW) consensus mechanism, which consumes significant amounts of energy. While Ethereum 2.0 is anticipated to transition to Proof of Stake (PoS) and address this concern, it's important to consider the environmental impact in the meantime.

Smart Contract Security Risks:

Writing secure smart contracts is crucial. Vulnerabilities or bugs in smart contracts can lead to security breaches, potentially resulting in the loss of digital assets. Rigorous auditing and testing are essential to mitigate these risks.

Regulatory Uncertainties:

The regulatory landscape for blockchain and digital assets is still evolving. Compliance with local and international regulations, particularly regarding KYC/AML requirements, may pose challenges.

User Education and Adoption:

Users may need to become familiar with blockchain technology and how to interact with decentralized applications (dApps). Educating users on wallet management, private key security, and general blockchain practices is essential.

Interoperability Challenges:

Achieving seamless interoperability with other blockchain networks or legacy systems may require additional effort and resources.

Storage and Data Management:

Storing large amounts of data on the blockchain can be expensive. Utilizing decentralized storage solutions like IPFS can help, but it's important to carefully manage and optimize data storage.

Lack of Formal Governance:

While Ethereum has a community-driven approach, decision-making and protocol upgrades may not always be as formalized as in some centralized systems. This can lead to debates and potential delays in implementing important changes.

Market Volatility and Asset Value Fluctuations:

The value of digital assets can be highly volatile, which may impact user sentiment and decisions regarding asset management.

Legal and Compliance Risks:

Adhering to legal and regulatory requirements can be complex and may vary by jurisdiction. Navigating these complexities is essential to ensure compliance.

It's important to conduct thorough research, implement robust security measures, and remain vigilant to mitigate these potential disadvantages. Additionally, staying informed about developments in blockchain technology and regulatory frameworks is crucial for the success of the project.

11.CONCLUSION

In conclusion, the implementation of a Digital Asset Management system on the Ethereum blockchain represents a significant step forward in revolutionizing the way digital assets are managed, transferred, and secured. This project harnesses the power of blockchain technology to provide users with a transparent, secure, and efficient platform for handling their digital assets. The advantages of this project are substantial. It leverages Ethereum's secure and immutable ledger, ensuring the integrity and transparency of asset ownership records. Through decentralization, it enables peer-to-peer transactions, reducing the need for intermediaries and streamlining the transfer process. Additionally, the platform's smart contract capabilities automate key aspects of asset management, enhancing efficiency and reducing manual intervention. Furthermore, the project's potential to tokenize real-world assets opens up new opportunities for fractional ownership, increased liquidity, and broader accessibility to a range of valuable assets.

However, it's essential to acknowledge and address potential challenges. Scalability concerns, gas fees, and smart contract security must be carefully managed. Regulatory compliance, user education, and interoperability with other systems also require focused attention. Overall, this project stands at the forefront of digital asset management solutions, offering a forward-thinking and innovative approach to how assets are managed in the digital age. With

continued development, rigorous testing, and a commitment to user education and security, this platform has the potential to make a substantial positive impact on the world of digital asset management. As the blockchain space continues to evolve, this project is poised to play a key role in shaping the future of asset management on the Ethereum blockchain and beyond.

12. FUTURE SCOPE

The Digital Asset Management system on the Ethereum blockchain holds significant potential for future expansion and enhancement. Here are some areas of future scope for the project:

Integration with Layer 2 Solutions:

Implementing Layer 2 solutions like Optimistic Rollups or zkRollups can significantly improve scalability and reduce transaction costs, making the platform more accessible and cost-effective for users.

Transition to Ethereum 2.0 (Eth2):

As Ethereum transitions to a Proof of Stake (PoS) consensus mechanism with Ethereum 2.0, the platform can benefit from increased scalability, reduced energy consumption, and enhanced security.

NFT Ecosystem Integration:

Explore opportunities to integrate with the Non-Fungible Token (NFT) ecosystem. This could include enabling the creation, management, and trading of NFTs within the platform.

Cross-Chain Functionality:

Implement interoperability protocols to enable the transfer of assets between different blockchain networks, providing users with a seamless experience across multiple platforms.

DeFi Integration:

Integrate with decentralized finance (DeFi) protocols to allow users

to lend, borrow, or trade digital assets directly from the platform, enhancing its financial ecosystem.

Governance and DAO Implementation:

Establish a decentralized autonomous organization (DAO) to allow platform users to participate in decision-making processes, such as protocol upgrades, fee adjustments, and feature additions.

Advanced Privacy Features:

Explore and implement more advanced privacy-preserving technologies like zk-SNARKs or zk-STARKs to further enhance user privacy and confidentiality.

AI and Machine Learning Integration:

Utilize artificial intelligence and machine learning algorithms to analyze user behavior, predict asset trends, and provide personalized recommendations or insights.

Enhanced User Experience (UX):

Continuously improve the user interface (UI) and user experience (UX) to ensure a seamless and intuitive platform, accommodating users with varying levels of technical proficiency.

Multi-Asset Support:

Extend the platform's capabilities to support a wider range of digital assets beyond cryptocurrencies, including tokens representing various types of assets.

Regulatory Compliance Frameworks:

Stay updated on evolving regulatory frameworks and implement features that facilitate compliance with local and international regulations, providing users with a legally compliant environment.

Security Audits and Bug Bounty Programs:

Conduct regular security audits and establish bug bounty programs to

identify and address potential vulnerabilities, ensuring the highest level of security for users.

Education and Community Building:

Foster an active and engaged user community through educational resources, workshops, and events, promoting a culture of learning and collaboration.

By exploring these future scopes, the Digital Asset Management platform on the Ethereum blockchain can continue to evolve and adapt to meet the changing needs of its users, while staying at the forefront of innovation in the blockchain and digital asset space.

Overall, Digital Asset Management on the Ethereum Blockchain aims to provide a more secure, transparent, and efficient way to manage digital assets, potentially disrupting traditional asset management systems.

13.APPENDIX

GITHUB LINK

<https://github.com/sakthibharathik/Digital-Asset-Management-On-The-Ethereum-Blockchain.git>

