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HackIndia

Regional spark-2

Team :

NFT Ninjas

TOPIC OF
DISCUSSION

**Real-time Ethereum
Wallet Monitoring
Dashboard**



PROBLEM

- Lack of Knowledge about Blockchain and Staking
- Room for better methods of security.
- Complexity of Wallet Monitoring
- Poor user experience
- Absence of hyperlinks to social media handles and community pages.

SOLUTION

- Providing statistics and market trends in a readable and easily understandable manner.
- Using NFTs as security keys. (Virtual password)
- Periodic access to consolidate ecad transaction histories and balance updates with an easy token swapping interface..
- User friendly interface including prompts on every option and a tutorial.
- Social media and community page access through the website itself.

SERVICES

- Wallet Monitoring
- NTFs as security keys
- Transaction History
- Balance Tracking
- Analytics and Reports
- User Authentication
- Token Value Tracking
- Responsive Design
- Educational Resources
- Currency Swap
- staking with calculations

RELEVANCE

- NTFs as security keys using web 3.
- Growing Adoption of Cryptocurrency
- User Base Expansion
- Security and Fraud Prevention
- Accessibility of Information
- Market Volatility
- Financial Management
- Blockchain Interaction
- Scalability and Future Growth

Scalability

- Microservices Architecture: Decompose the application into microservices to allow independent scaling of different components based on demand.
- Caching: Implement caching mechanisms (e.g., Redis) to store frequently accessed data and reduce the load on the database.
- Efficient Data Retrieval
- Data Encryption: Ensure all sensitive data is encrypted both in transit and at rest to maintain security and compliance as the user base grows.

- **Cloud Providers:** Leverage cloud platforms like AWS, Azure, or Google Cloud for scalable infrastructure, taking advantage of their auto-scaling, load balancing, and managed database services.
- **Efficient Data Retrieval:** Optimize blockchain data retrieval by using services like Infura or Alchemy that offer scalable and reliable access to Ethereum blockchain data.

TECHNOLOGIES

- Frontend
- Backend
- Blockchain Interaction
- Database
- Authentication
- Hosting

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PROTOTYPE

