

DAYANANDA SAGAR COLLEGE OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

DECENTRALIZED FINANCE (DeFi) BANKING

APPLICATION USING BLOCKCHAIN TECHNOLOGY

Abhinav Chettri(1DS19CS002) Sai Prithvi Adapa(1DS19CS138) Siddharth Shivam(1DS19CS159) Ubaid Ul Rehman(1DS19CS755) Guided By: Prof. Anupama Girish

ABSTRACT can be prone to tampering or modification of transaction

The proposed solution is a DeFi (Decentralized Finance)

banking application built on the Ethereum Blockchain

The DeFi application is fully automated and eliminates the

Smart contracts will be developed to govern the system

history and bank balances.

need for human interference.

BLOCK DIAGRAM

METHEDOLOGY

- · Smart Contract Development: Use Solidity to create contracts for staking rewards distribution and farming rules . User Interface Design: Develop a user-friendly interface
- displaying farming pools, staked balances, and earned rewards. . Token Integration: Integrate specific tokens using Ethereum's ERC-20 standard, including transfers, staking, and balance
- . Liquidity Provision: Set up liquidity pools through partnerships or incentivize users for liquidity mining.
- . Testing and Security Audits: Thoroughly test smart contracts for functionality and security vulnerabilities. Perform audits to ensure robustness and protection against attacks
- . Deployment: Compile and deploy smart contracts on the Ethereum blockchain, making the token farming platform

GUI Reward Balance

MDN C

Staking Balance

Stake Tokens

ADVANTAGES

- · Decentralization: No intermediaries, full control over assets and transactions
- · Automation and Efficiency: Smart contracts automate processes improving efficiency and accuracy.
- · Yield Generation: Users earn rewards by
- providing liquidity or staking tokens. · Accessibility: Available to anyone with
- an internet connection and compatible · Security: Utilizes blockchain's security
- and immutability, reducing fraud and unauthorized access

 Users will have the ability to deposit, withdraw, and earn rewards in cryptocurrencies. . The proposed system ensures that financial transactions Transactions can be performed instantly from any location, whether it be home or work

