AGENTIC ETHEREUM HACKATHON IDEA SUBMISSION PRESENTATION

Team Name: CODEWARTS CODEX
Team Lead: Laksheiya A
Team Members: Shruthi T, Yuganthara R K, Atthi Sushrutha
PS Theme: Identity & Privacy Agents
Project Title: AI-Agent Identity Manager

INTRODUCTION

CryptoProtect Wallet is a privacy-first Web3 wallet interface that offers users greater control over their transaction history and identity exposure. Unlike traditional wallets that permanently display sensitive details like wallet addresses and transaction hashes, CryptoProtect introduces a Privacy Timeout feature that automatically anonymizes such data after 7 days. It also includes an AI-powered assistant to help users understand privacy settings, dApp permissions, and risk factors in simple terms. Designed with a user-friendly dashboard and banking-style security practices, CryptoProtect bridges the gap between decentralization and personal data protection in the Web3 space.

PROBLEM STATEMENT

- Managing multiple Web3 wallets and decentralized identities (DIDs) is complex and confusing.
- Users lack tools to view all their digital identities and assets in one place.
- No smart assistant currently helps users understand or optimize their identity usage and privacy.
- Result: fragmented identity, privacy risks, and poor user experience.

SOLUTION

- We built an AI-powered identity manager that connects all your wallets and DIDs in a single dashboard.
- The AI agent gives personalized advice on how to manage your identities and improve privacy.
- Users can easily track their assets, connected apps, and permissions across wallets.
- Provides high level securities(Disconnection of Wallet, Temporary data storage,Tool to detect vulnerabilities in users account.

KEY FEATURES

KEY FEATUERES

- Multi-wallet & DID integration: Seamlessly connect and manage multiple wallets.
- AI Chat Assistant: Built a model using Olama for natural language help and suggestions.
- Privacy-focused: Denies third-party access
- Easy wallet connection: Self-paced portal does all the cryptocurrency related activities without third-party.
- User-friendly dashboard: Visualizes your Web3 identities and related assets clearly along with their privacy

IMPLEMENTATION STRATEGY AND TECH STACK USED

RESEARCH AND PLANNING

- Analyzed privacy limitations in existing Web3 wallets like MetaMask
- Studied how banking apps anonymize sensitive user data
- Planned AI integration to simplify privacy understanding for users

TECHNOLOGY SELECTION

- Frontend: React.js (Vite) + Tailwind CS
- AI Assistant: Model using Olama
- Backend: Python, Sqlite (Database)
- Data Privacy Handling: Custom logic for Privacy Timeout & Anonymization
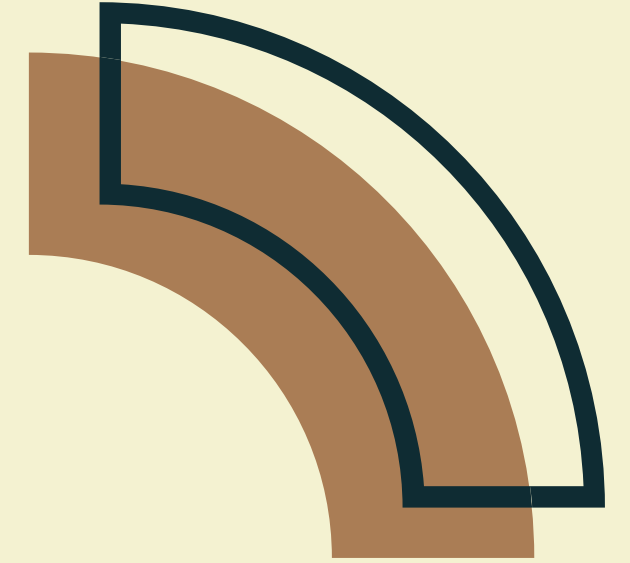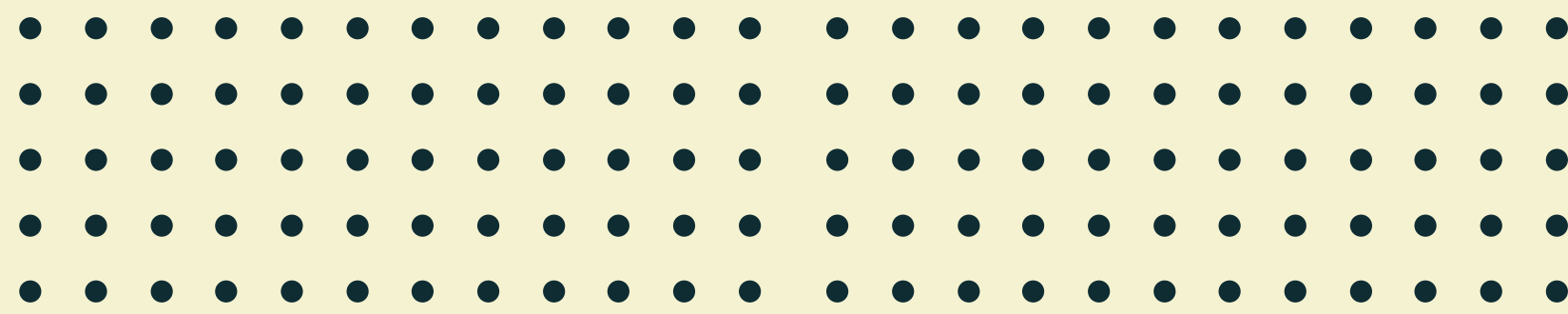
DEMO WALK-THROUGH

DEMO WALK-THROUGH

- Home dashboard with wallet balance and recent transaction, privacy score
- Portfolios and Analytics
- AI assistant answering privacy-related user queries and acts as a guide.
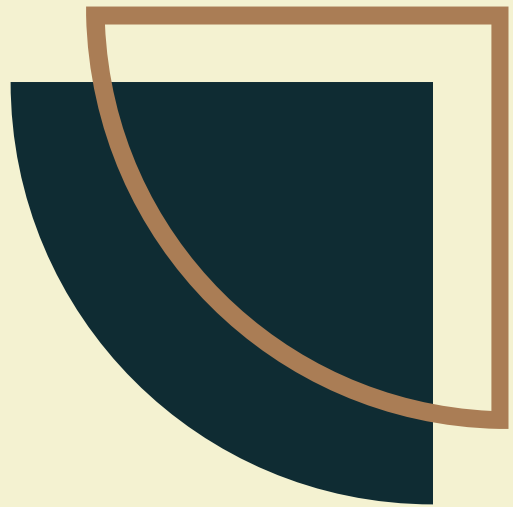- Security improvement features

INNOVATION AND IMPACT

- First AI-driven Web3 identity manager combining decentralized IDs with intelligent assistance, without any third-party and improved security feature.
- Enhances privacy and security by providing clear insights and control.
- Scalable foundation for integrating future decentralized applications and identity protocols.

THANK YOU !!!

Presentation by CODEWARTS CODEX

Contact Mail: Laksheiyaa.cs2023@citchennai.net , Shruthit.cs2023@citchennai.net , Yugantharark.cs2023@citchennai.net , atthisushruthaa.cs2023@citchennai.net

Contact :   8807305451 , 6374579673 , 9043306546 , 7550060172