Project Name: Nestfolio - A decentralized governance platform on Solana

Nestfolio is a decentralized governance platform built on Solana. It allows communities to create and manage DAOs (Decentralized Autonomous Organizations), where members can propose, vote on, and execute decisions in a transparent way.

Users can join a DAO by staking tokens, which gives them voting power. To prevent spam, proposals require a small fee and a minimum stake. Treasury management is secure, with fund deposits, multi-signature withdrawals, and reward distribution based on voting results.

Security is a priority, with cryptographic verification, anti-spam features, and randomized validators. Nestfolio also offers advanced tools like delegated voting, reputation scoring, and tiered memberships, making it a powerful and flexible DAO solution.

AI-Powered Assistance

Nestfolio integrates an AI assistant, **ElizaOS**, to help users perform blockchain tasks easily. New users unfamiliar with crypto can interact with AI to:

- Create a DAO (`initialize_organization()`)
- Submit proposals (`create_proposal()`)
- Transfer funds and manage governance actions

ElizaOS automates these tasks, reducing complexity and making DAOs accessible to everyone.

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Product-Market Fit

Nestfolio solves the growing need for decentralized governance by providing an easy-to-use, scalable DAO platform on Solana. Many Web3 communities struggle with complex governance tools, high transaction fees, and security risks. Nestfolio removes these barriers by enabling permissionless DAO creation, token-based voting, and secure fund management through multi-signature controls. Its staking model prevents spam while incentivizing participation, ensuring fair governance. With AI-powered assistance (ElizaOS), even non-technical users can create DAOs, submit proposals, and manage treasury operations effortlessly. By combining low-cost transactions, fast execution, and advanced governance features like delegated voting and reputation scoring, Nestfolio meets the needs of crypto communities, DeFi projects, NFT collectives, investment DAOs, and Web3 startups looking for a trustless, efficient, and scalable governance solution.

Target User Profiles

- **Crypto Communities & DAOs** – Web3 groups that need a decentralized, transparent governance system to make decisions and manage treasury funds efficiently.
- **DeFi Projects & Protocols** – Decentralized finance platforms that require structured governance for protocol upgrades, fund allocation, and community-driven proposals.
- **NFT Collectives & Creator DAOs** – NFT projects and digital creator communities looking for decentralized control over royalties, collaborations, and community initiatives.
- **Investment & Grant DAOs** – Venture DAOs and grant programs that need fair voting, secure treasury management, and efficient fund distribution.
- **Web3 Startups & Open-Source Projects** – Teams using DAOs to raise funds, govern projects, and coordinate decentralized development with transparent decision-making.
- **Individual Web3 Enthusiasts** – Crypto users who want to create or join DAOs, participate in governance, and influence decisions in decentralized ecosystems.

User Stories-I

User Story ID: Nestfolio-001a

Priority: High
User Persona: DAO Founder ("GovernanceGuru")
Goal: Easily create and launch a DAO.

Story

As a DAO founder, I want to set up a decentralized organization with clear rules and an initial treasury deposit so I can manage decision-making and funds.

Functionality

I should be able to:

- Start a DAO by entering a name, governance rules, and an initial deposit of 10 SOL.
- Generate a unique DAO identifier.
- Set membership and staking rules.
- Use AI (ElizaOS) to guide me through the setup.

Features

- The DAO dashboard should show treasury funds, active proposals, and governance settings.
- A minimum deposit should be required to prevent spam.
- The system should be secure and tamper-proof with cryptographic validation.

User Interaction

I should be able to:

- Review and confirm my DAO details before launching.
- Share my DAO link with potential members.
- Manage governance settings and update staking requirements when needed.

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User Stories-II

User Story ID: Nestfolio-002a

Priority: Medium
User Persona: DAO Member ("StakeMaster")
Goal: Increase my voting power by staking tokens.

Story

As a DAO member, I want to stake my SOL or governance tokens so I can increase my voting power and have more influence in decisions.

Functionality

I should be able to:

- Deposit SOL or a custom governance token to stake.
- Gain proportional voting power based on my stake.
- See lockup periods and any staking rewards.
- Use AI (ElizaOS) to stake tokens for me if I need help.

Features

- A staking dashboard should show my balance, voting power, and lockup status.
- The system should securely validate my stake using cryptographic proof.
- Anti-spam mechanisms should prevent abuse, ensuring fair governance.

User Interaction

I should be able to:

- See my staking balance and voting power in real-time.
- Unstake my tokens when the lockup period ends.
- Track governance proposals where my voting power applies.

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User Stories-III

User Story ID: Nestfolio-003a

Priority: Low
User Persona: DAO Observer ("PassiveWatcher")
Goal: Monitor DAO activities without actively participating.

Story

As a DAO observer, I want to track proposals, voting outcomes, and treasury movements so that I can stay informed about governance decisions without actively participating.

Functionality

I should be able to:

- View active and past proposals, along with voting results.
- Check treasury balances and recent transactions.
- Follow discussions and updates on governance activities.
- Use **AI (ElizaOS) to summarize key DAO updates** for me.

Features

- A **dashboard** showing DAO proposals, votes, and treasury status.
- **Read-only access** to governance decisions without needing to stake tokens.
- Option to receive **notifications or AI-generated summaries** for major DAO updates.

User Interaction

I should be able to:

- Browse DAOs and track governance activity.
- Set alerts for specific proposals or treasury actions.
- Get AI-powered insights on DAO trends and participation levels.

This allows non-voting members, potential investors, or new users to stay engaged with DAO activities without committing funds.

THE END