

CharityFlow: Decentralized Crowdfunding Ecosystem.

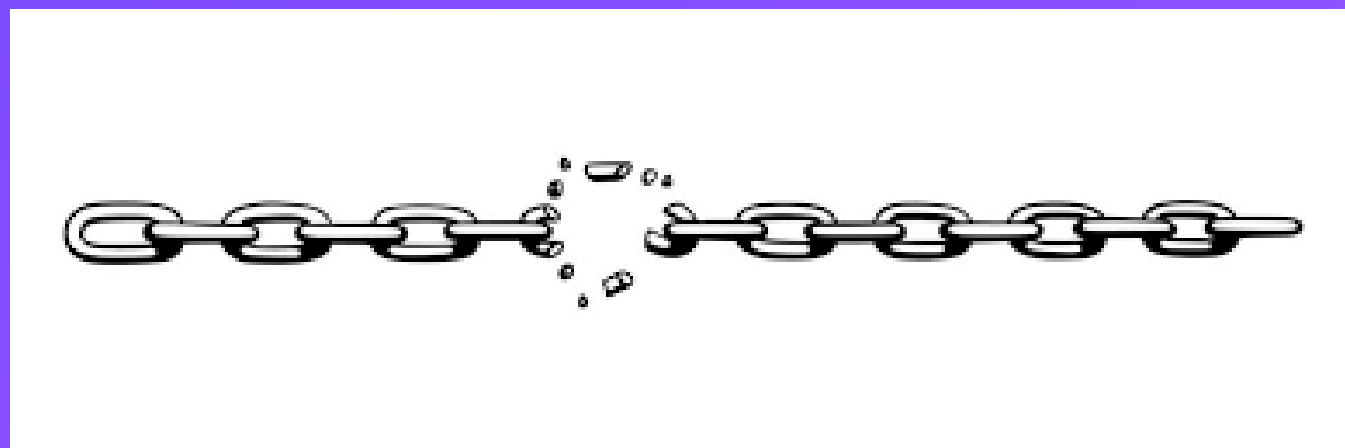
"Transparency by design. Accountability through Blockchain."

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The Problem

- Lack of Trust: Donors don't know where their money goes.
- Intermediaries: High fees and slow transfers in traditional charity.
- Manual Rewards: Difficult to track and reward loyal supporters.



The Solution

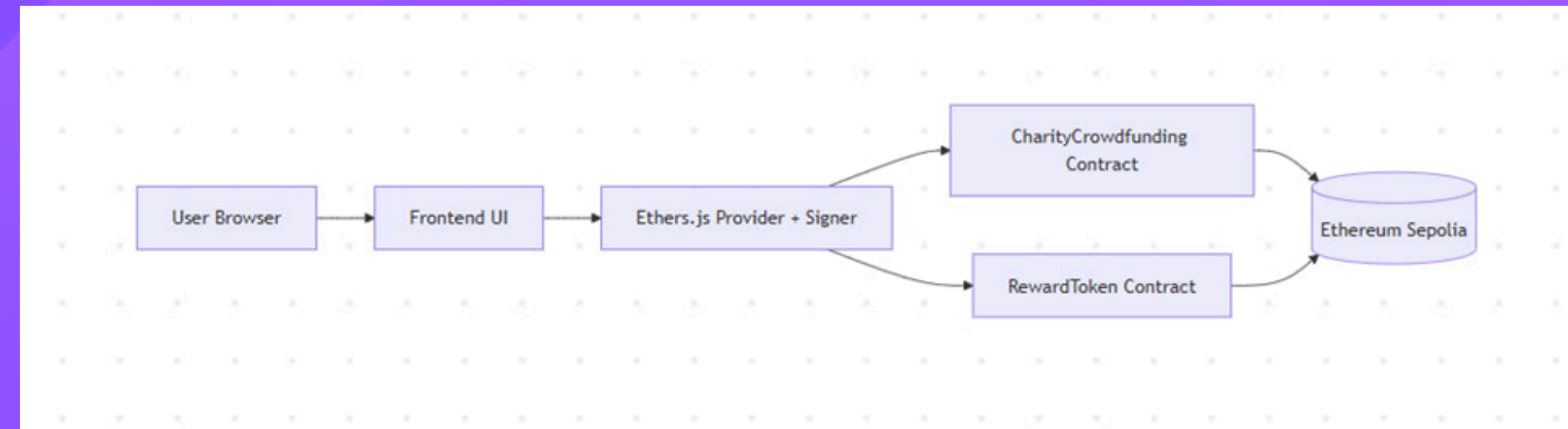
- Direct Impact: Funds go directly to campaign creators.
- Public Ledger: Every cent is traceable via Etherscan.
- CRWD Tokens: Automatic "Proof of Contribution" for every donor.



System Architecture

3-Tier Technical Architecture.

- Frontend: Simple static web app (HTML/JS).
- Web3 Bridge: Ethers.js connects the user's wallet to the network.
- Blockchain: Solidity smart contracts manage the state and assets.



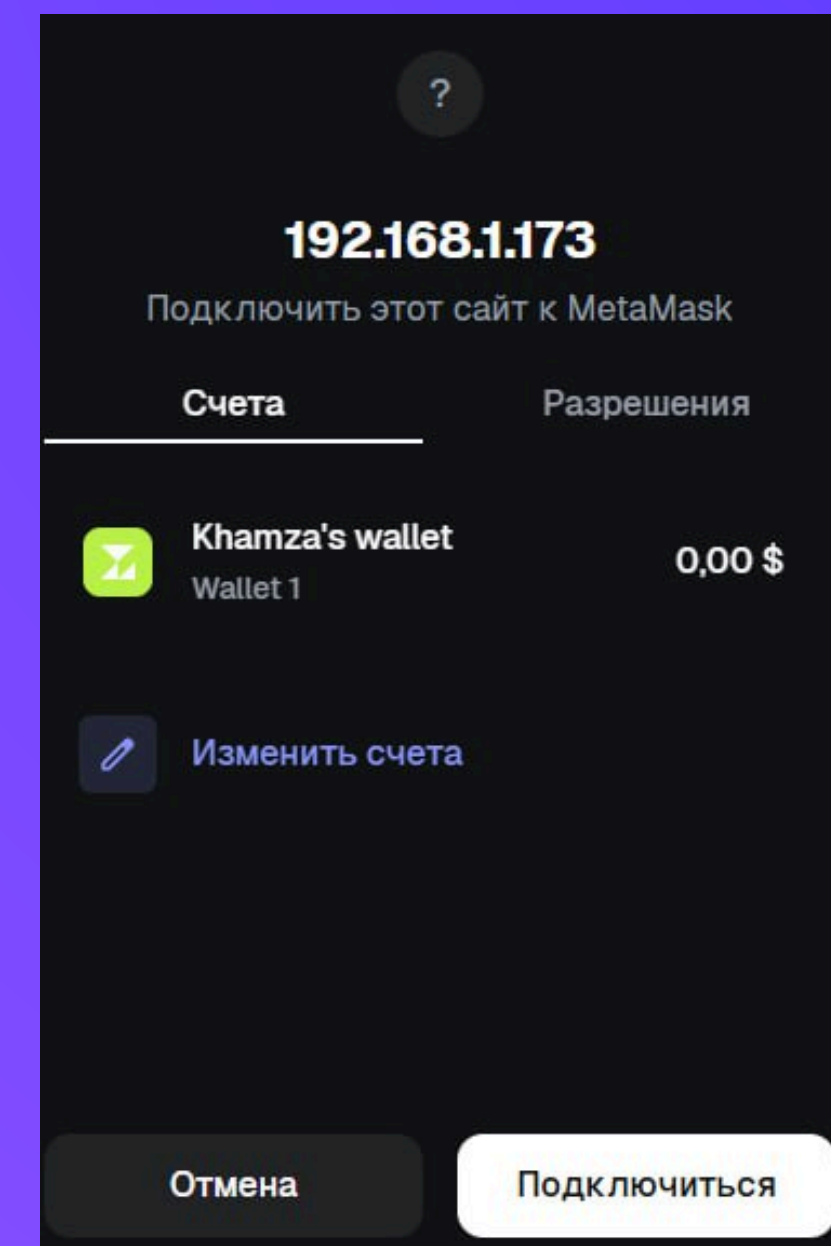
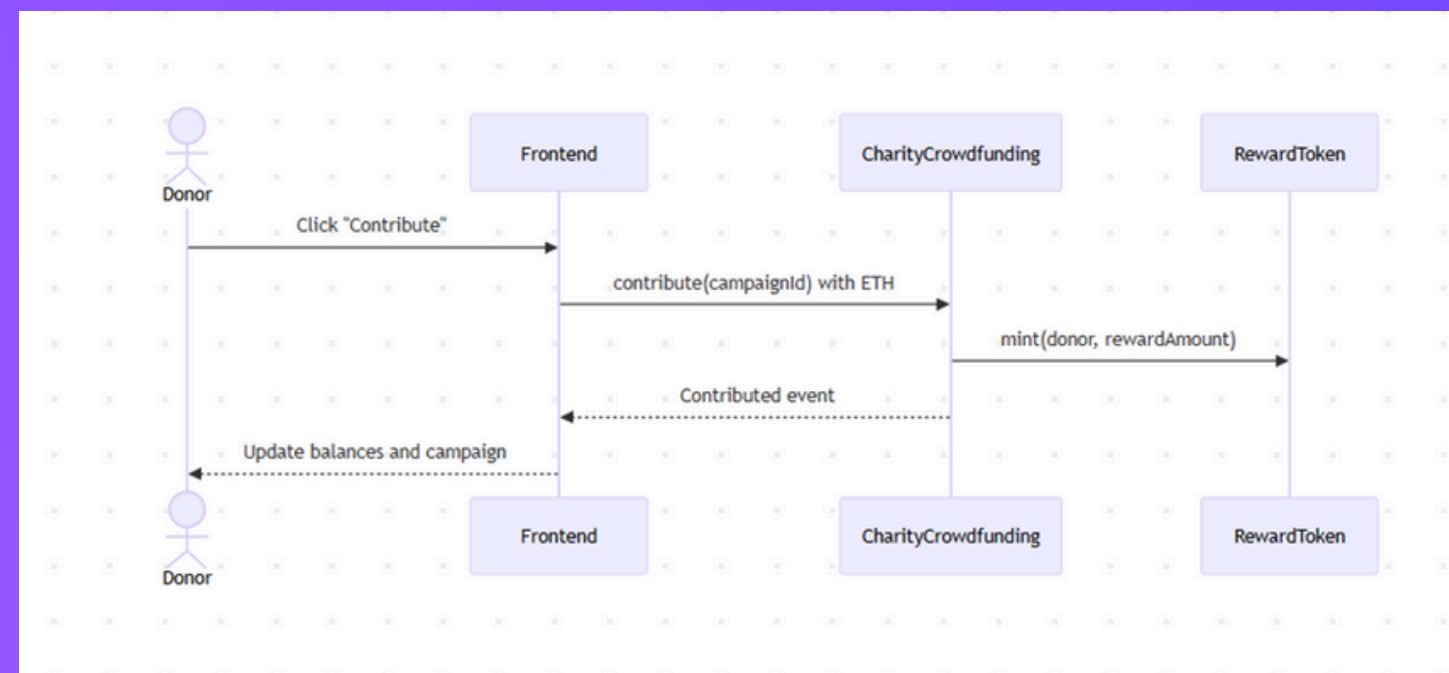
Smart Contract Logic

- CharityCrowdfunding.sol: Logic for goal tracking, deadlines, and fund distribution.
- RewardToken.sol (ERC-20): Minting engine for donor rewards.
- Security: Ownership is transferred to the main contract to prevent unauthorized minting.



User Experience: Connecting Wallet

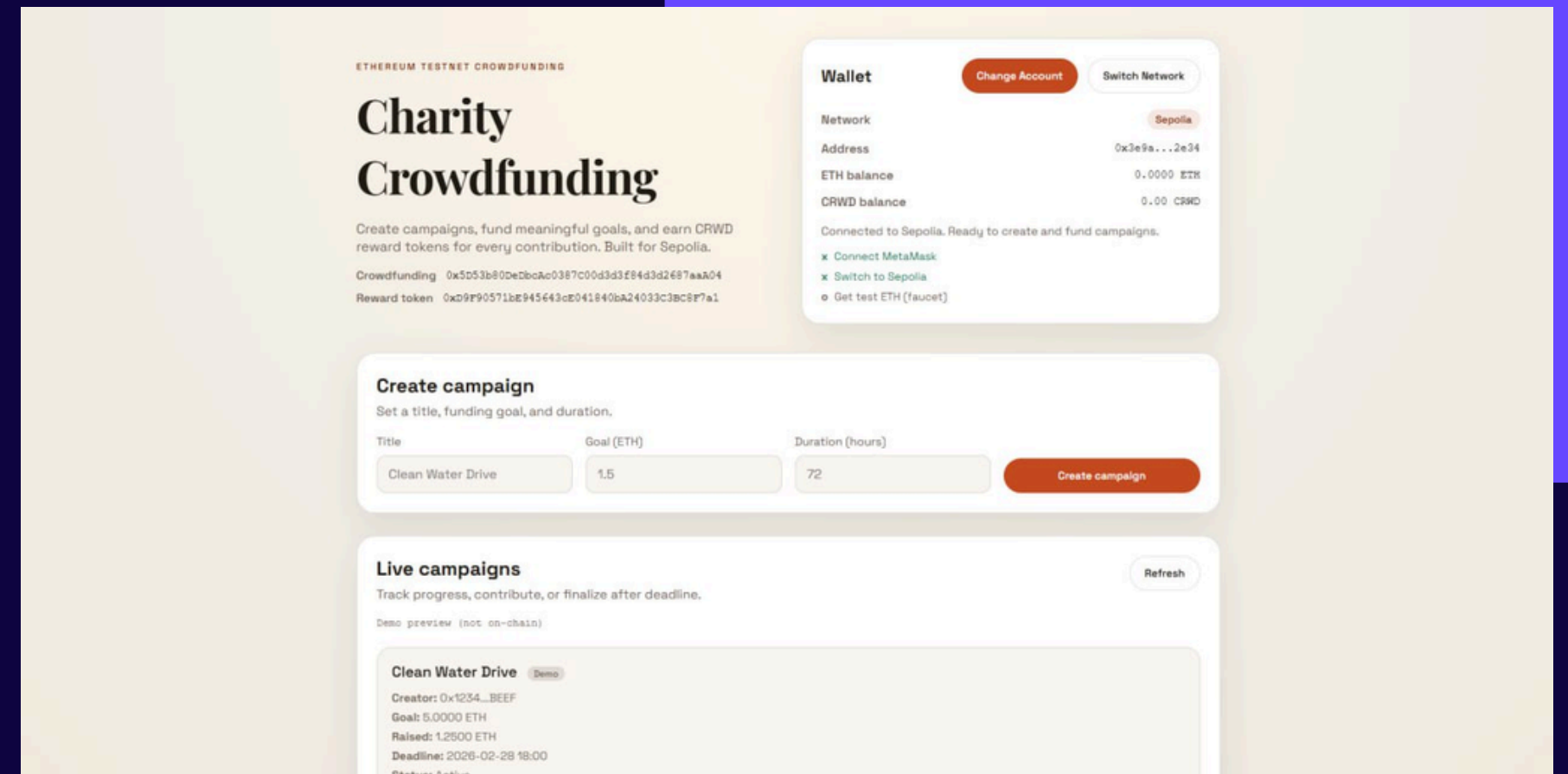
- Automatic wallet detection via window.ethereum.
- Secure account linking for identity verification.



Platform Demo: Active Campaigns

Live Charity Dashboard

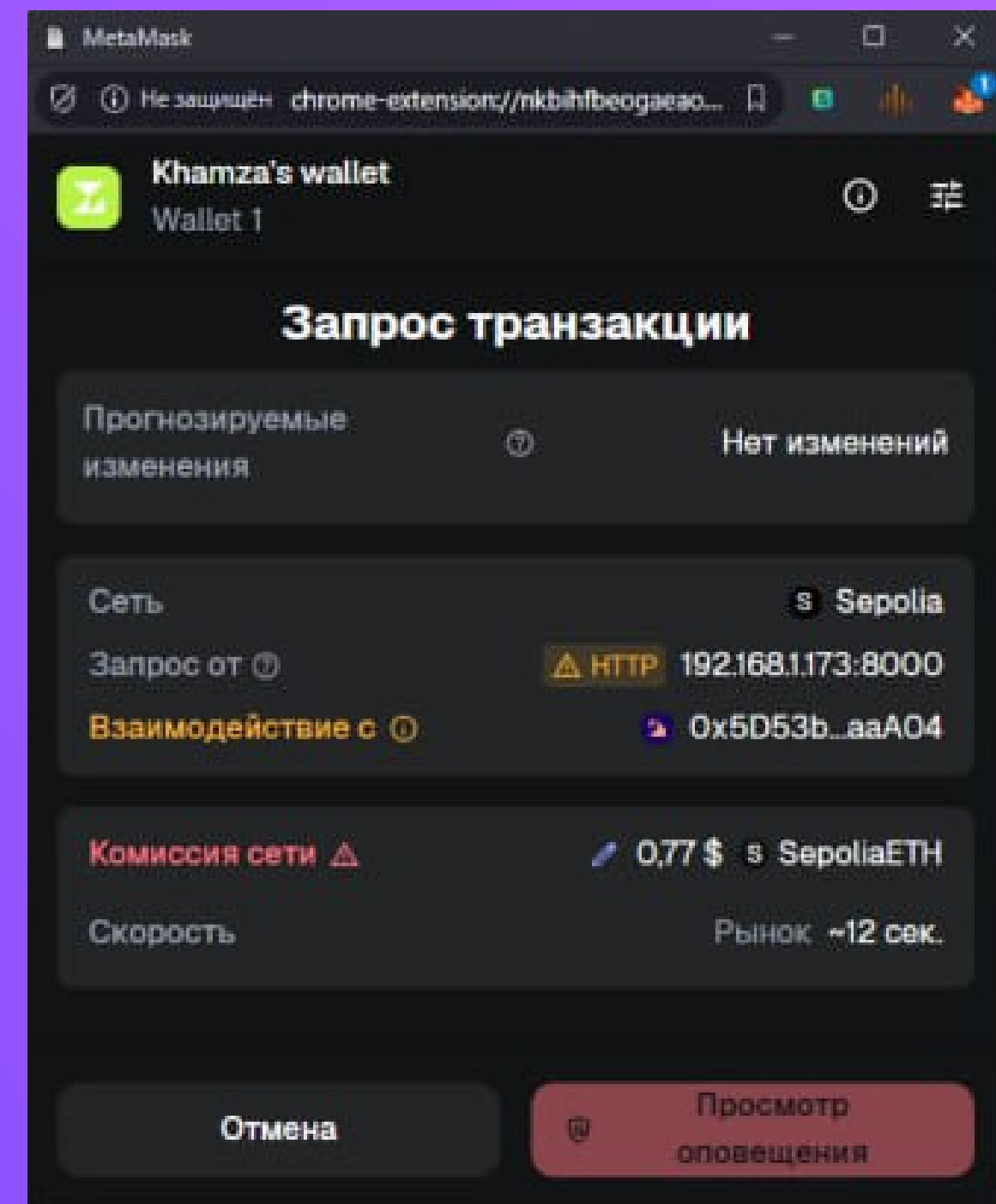
- Real-time tracking of ETH raised.
- Display of contract addresses for full transparency.



Transaction Verification

Verified On-Chain Security

- Transaction confirmation on the Sepolia Network.
- Direct interaction with the Crowdfunding contract address.



Security & Design Decisions

Ensuring Trust and Safety

- Restricted Minting: Only the Charity contract can mint CRWD tokens.
- Time-Locked Goals: Funds are only released after reaching deadlines.
- No Custody: Developers never have access to donor funds.



Conclusion & Future Roadmap

The Future of CharityFlow

Deadline: 2026-02-28 18:00
Status: Active
Your contribution: 0.0000 ETH

Contribute (ETH)

0.05

Contribute

Finalize

Student Relief Fund Demo

Creator: 0x9a9a...CODE
Goal: 2.0000 ETH
Raised: 2.0000 ETH
Deadline: 2026-02-10 12:00
Status: Ended
Your contribution: 0.2000 ETH

Contribute (ETH)

0.05

Contribute

Finalize

- Next step: Adding automated refunds for failed campaigns.
- Next step: Integrating IPFS for decentralized media storage.