

VoteChain

Challenge Projekt

Caspar Martens

Simon Kindhauser



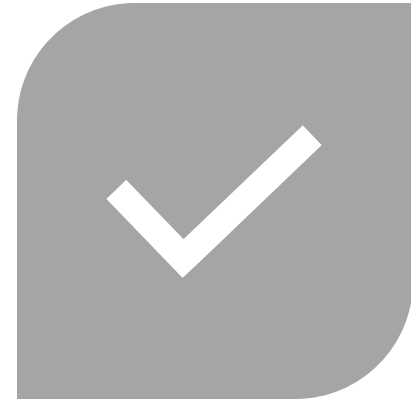
What is the VoteChain?



DOCUMENT STORE
BASED ON ETHEREUM



PERSISTS DOCUMENT
MODIFICATIONS (DIFFS)



ALLOWS VOTING ON
CHANGES

Agenda



Introduction

Agenda (you are here)

Tech Stack

Design Decisions

Architecture

Demonstration

Tech Stack

Solidity Smart Contracts

Open Zeppelin Governor

Next.js

Postgres

Prisma

Moralis

Ethers.js

Diff-match-patch



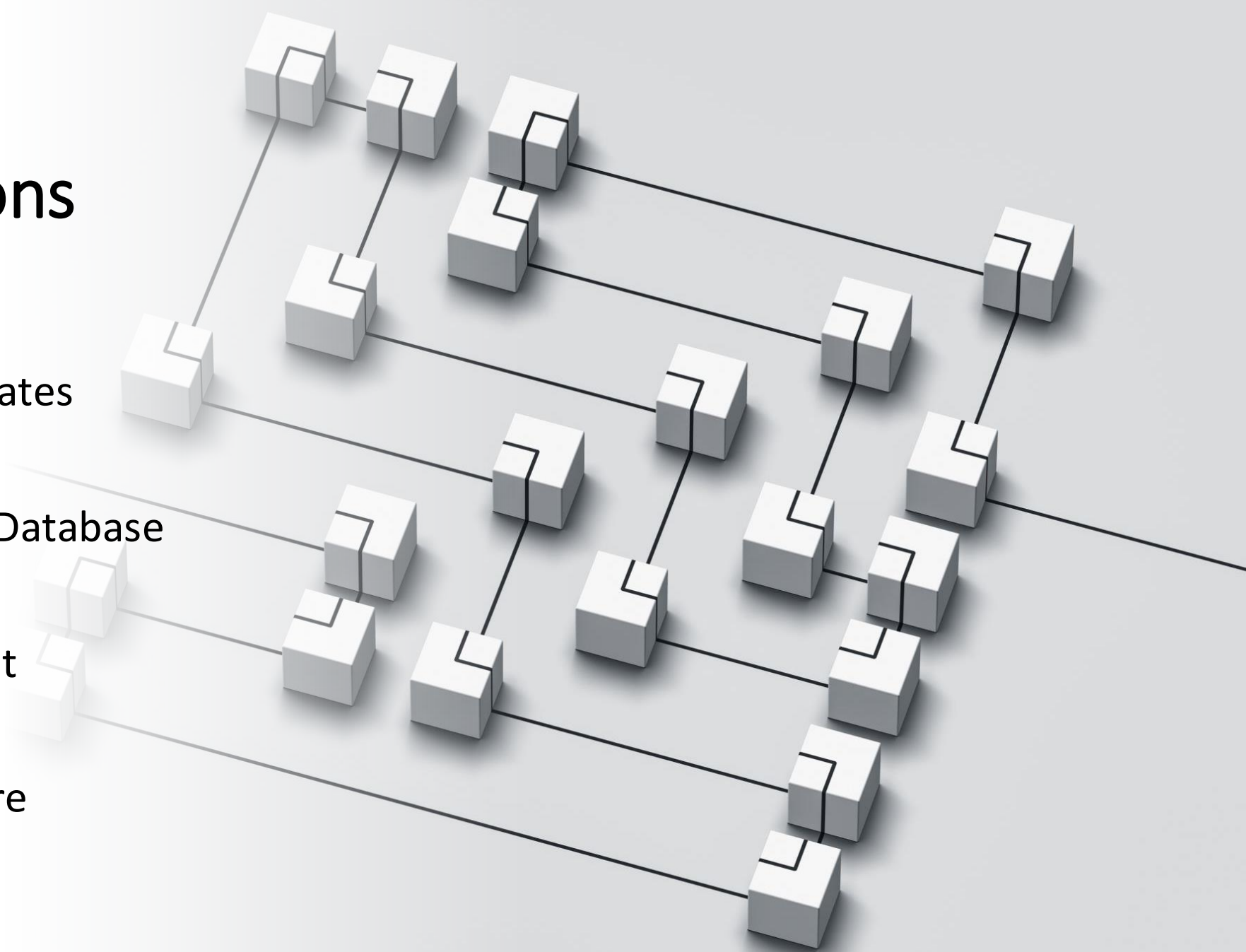
Design Decisions

Blockchain Centered States

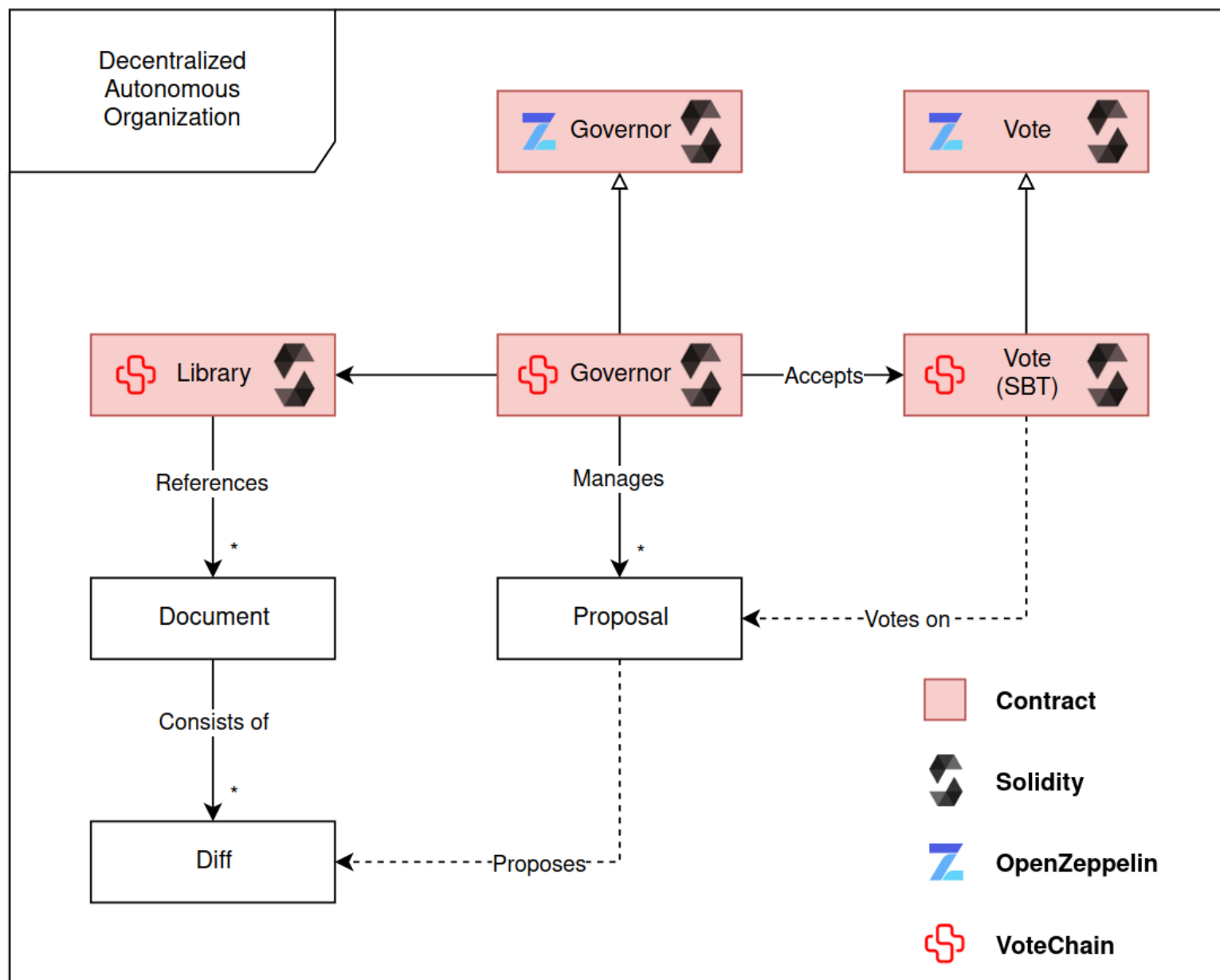
Metadata in relational Database

Code First Development

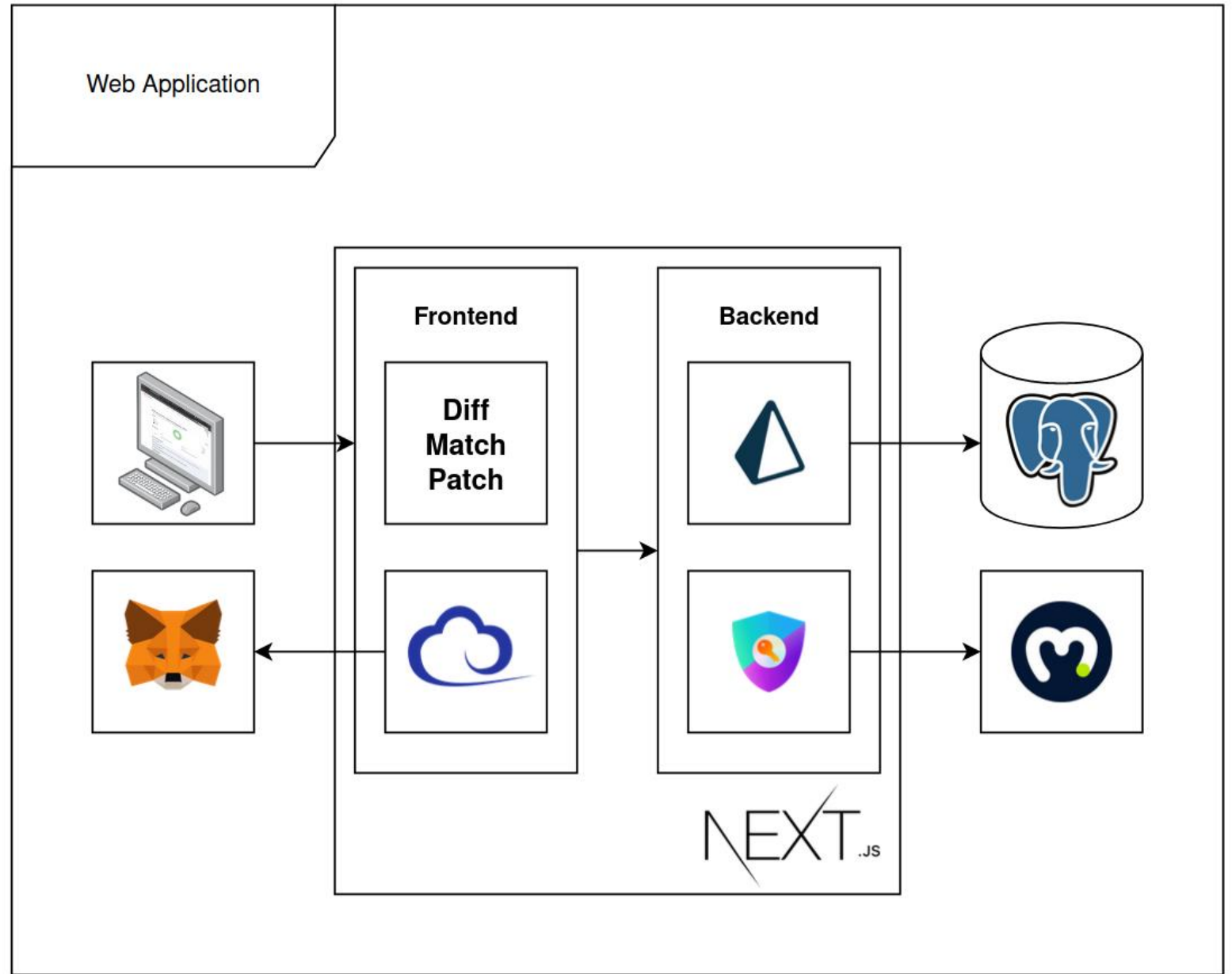
Avoid Not Invented Here
Syndrome

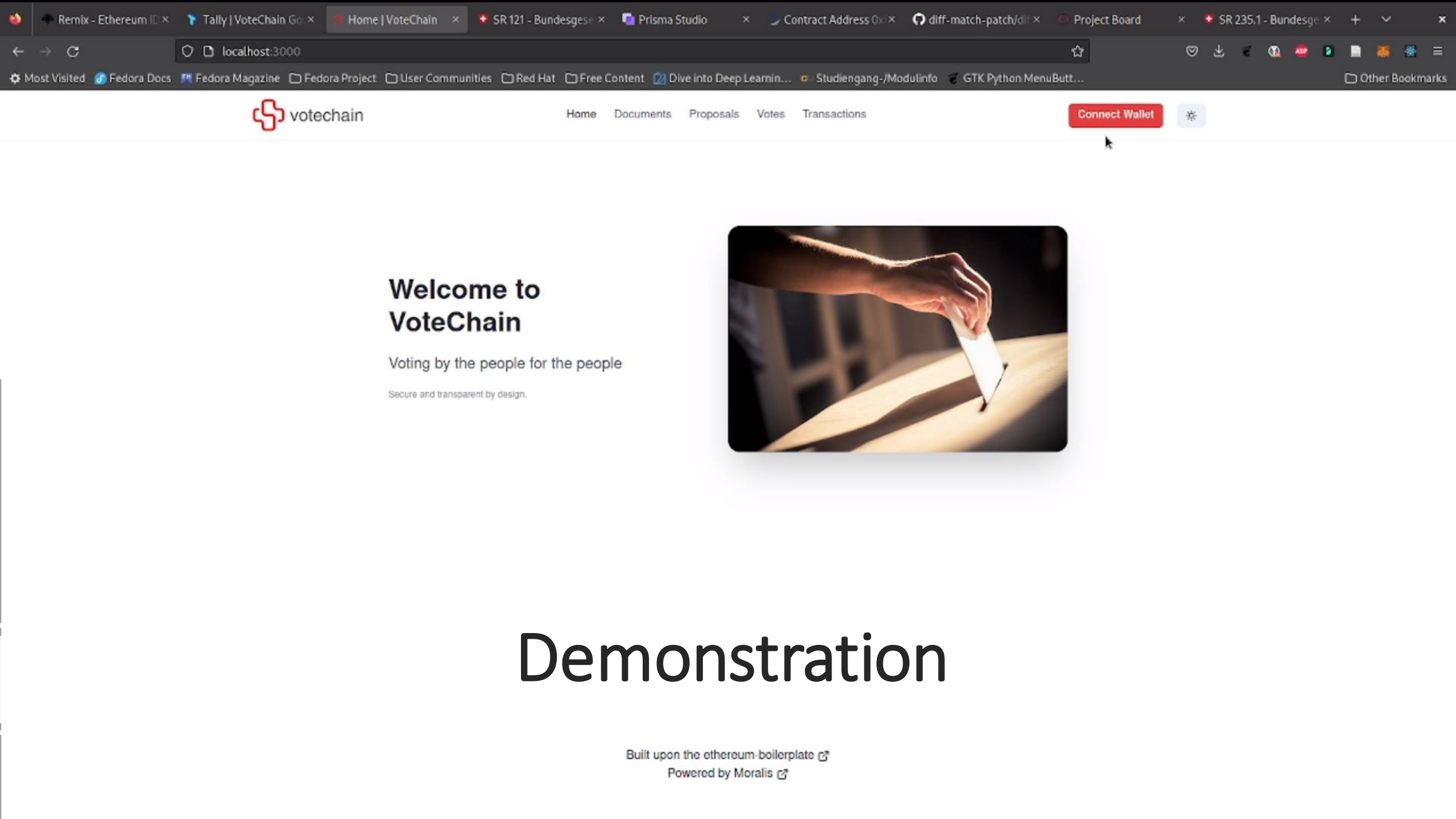


Architecture DAO



Architecture Web Application





[Home](#) [Documents](#) [Proposals](#) [Votes](#) [Transactions](#)

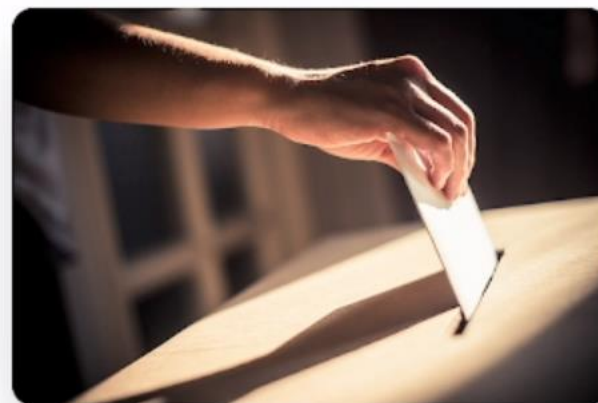
Connect Wallet



Welcome to VoteChain

Voting by the people for the people

Secure and transparent by design.



Demonstration

Built upon the [ethereum-boilerplate](#)

Powered by [Moralis](#)

Conclusion

- Seamless integration of blockchain technology
 - User friendly even for non-techies
 - But long response times
 - Needs to wait for multiple blocks (Security)
 - Missing user feedback from application
- Interesting for real-world e-voting applications
 - Tamperproof by design
 - Zero trust required



VoteChain

Thanks for listening!

