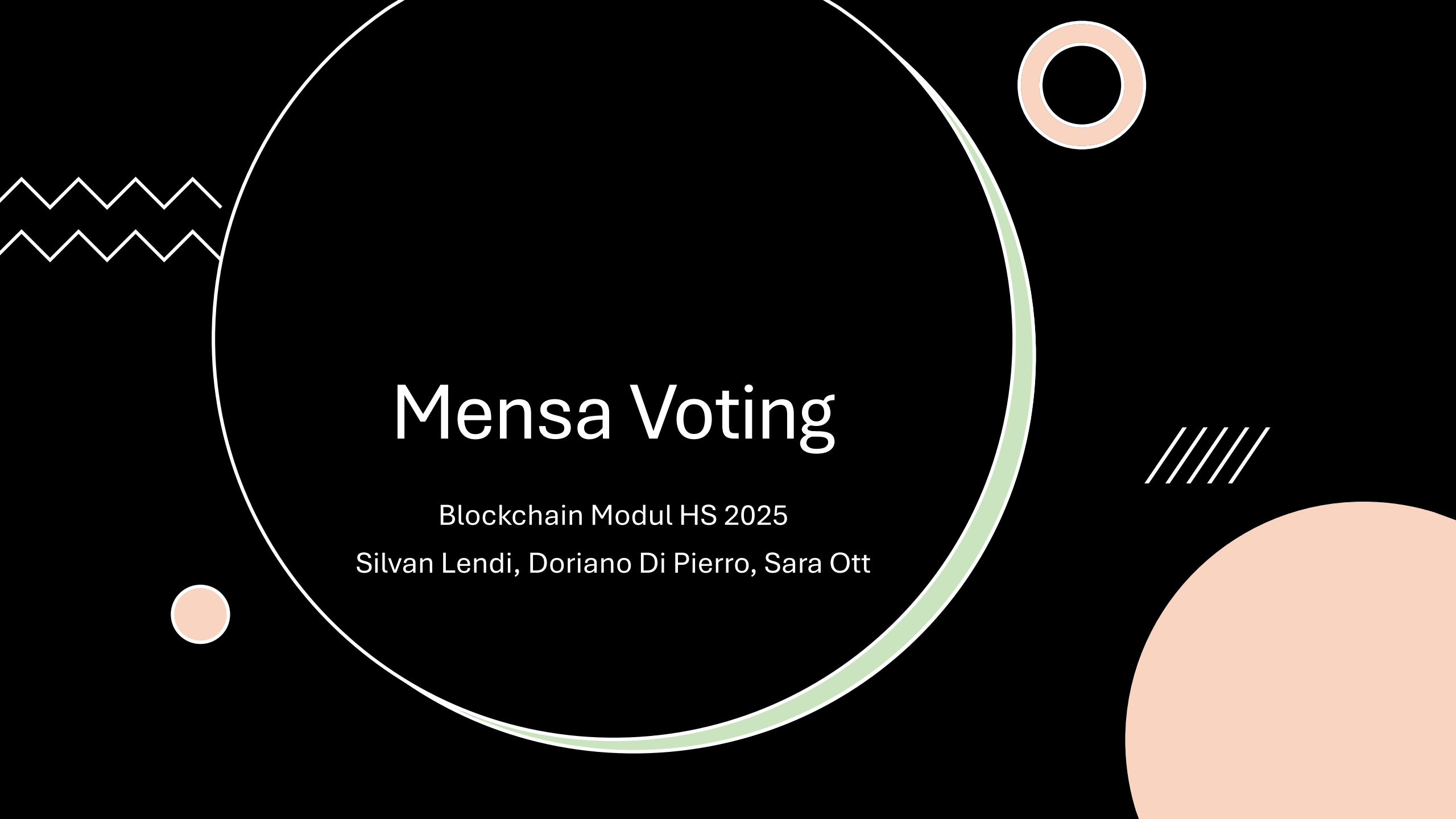
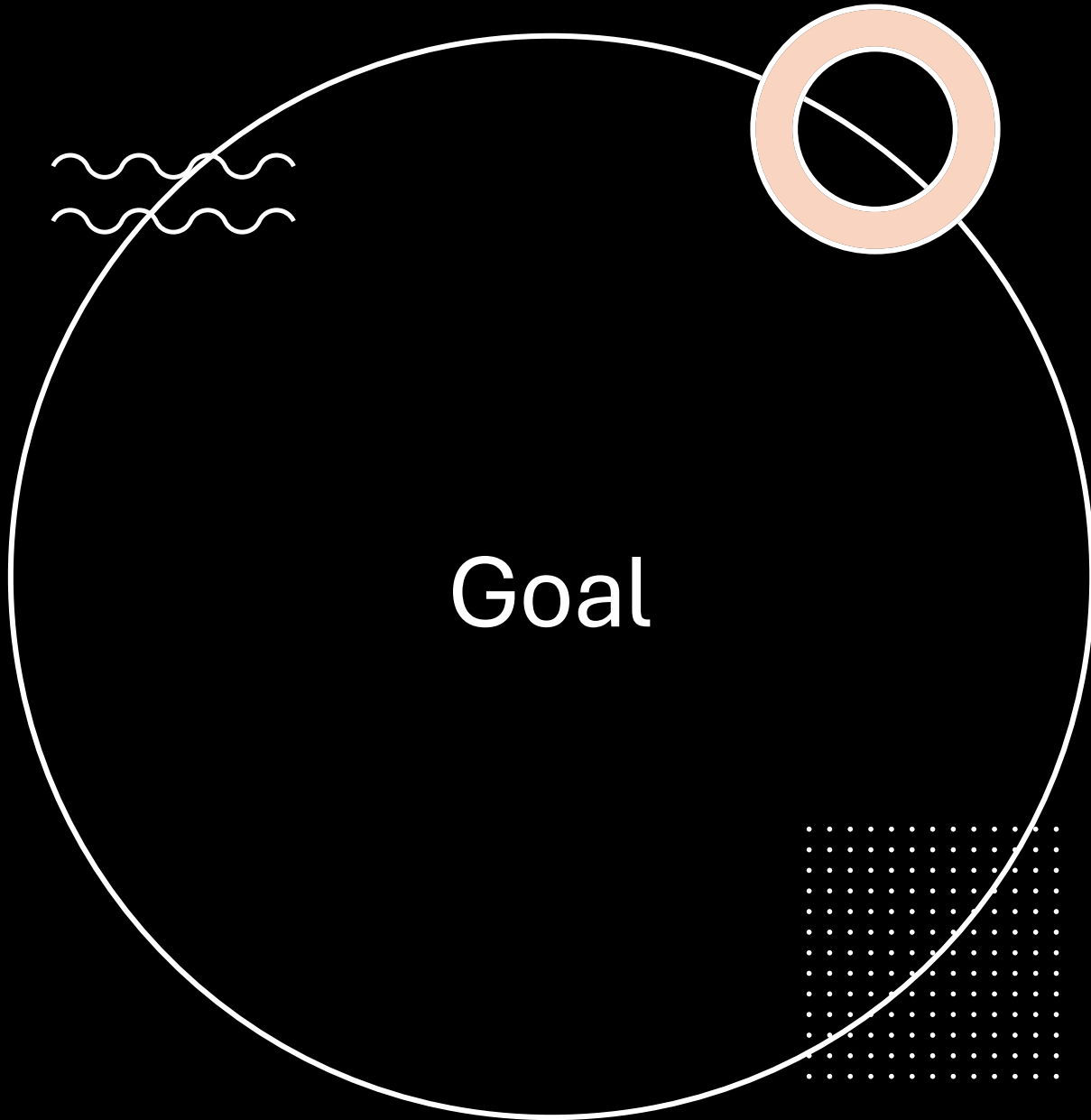




Mensa Voting

Blockchain Modul HS 2025

Silvan Lendi, Dorian Di Pierro, Sara Ott



Our Gasless Mensa Voting App

- Students can vote on their daily favorite lunch menu at Pier 2 (Migros Restaurant @ OST Rapperswil)
- Mensa organizer get feedback about most liked lunches
- Further extension: Create voting for up coming weeks and let students participate lunch menu suggestion-votings.

Tools used



Solidity (Code of Smart Contract)



Svelte (Frontend)



Viem/Permissionless (Web3 Libraries)



Sepolia Testnet
Ethereum (Blockchain)

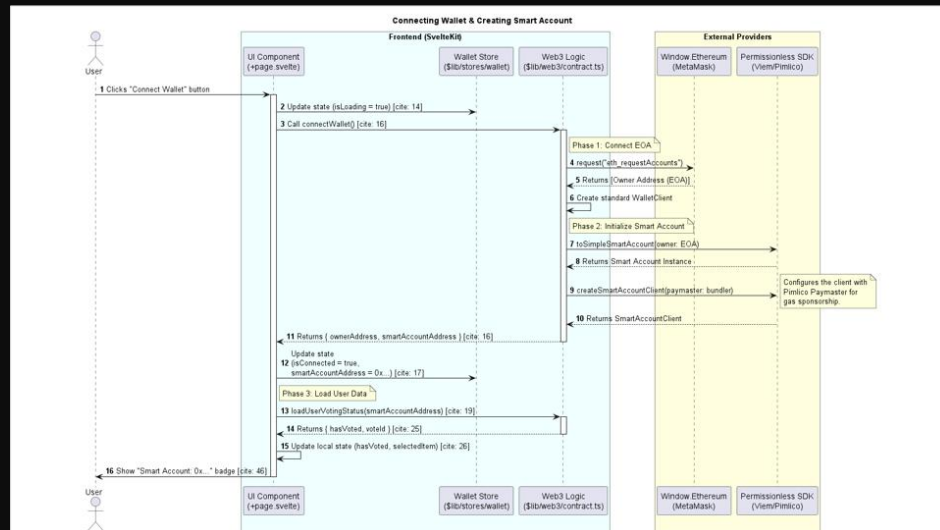


Pimlico (Bundler?),
Gasless Provider

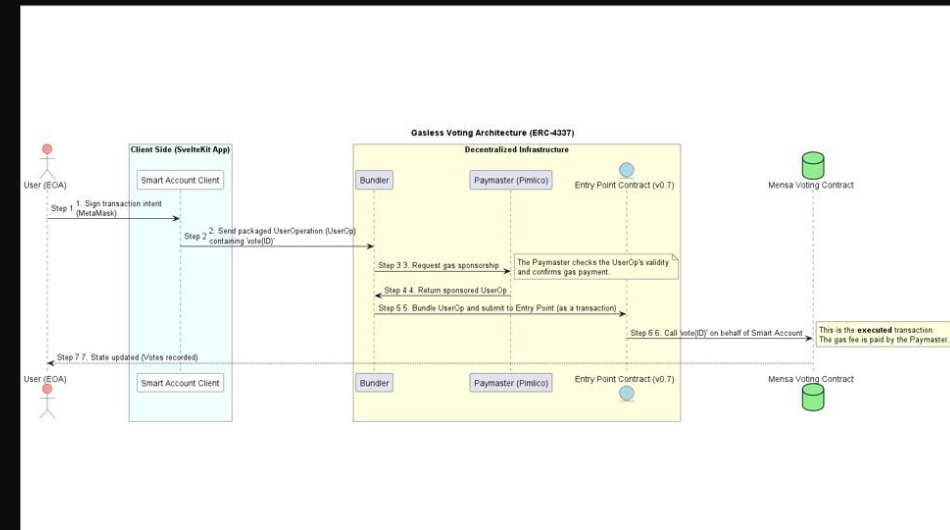
Infrastructure

Two sequence diagrams to clarify

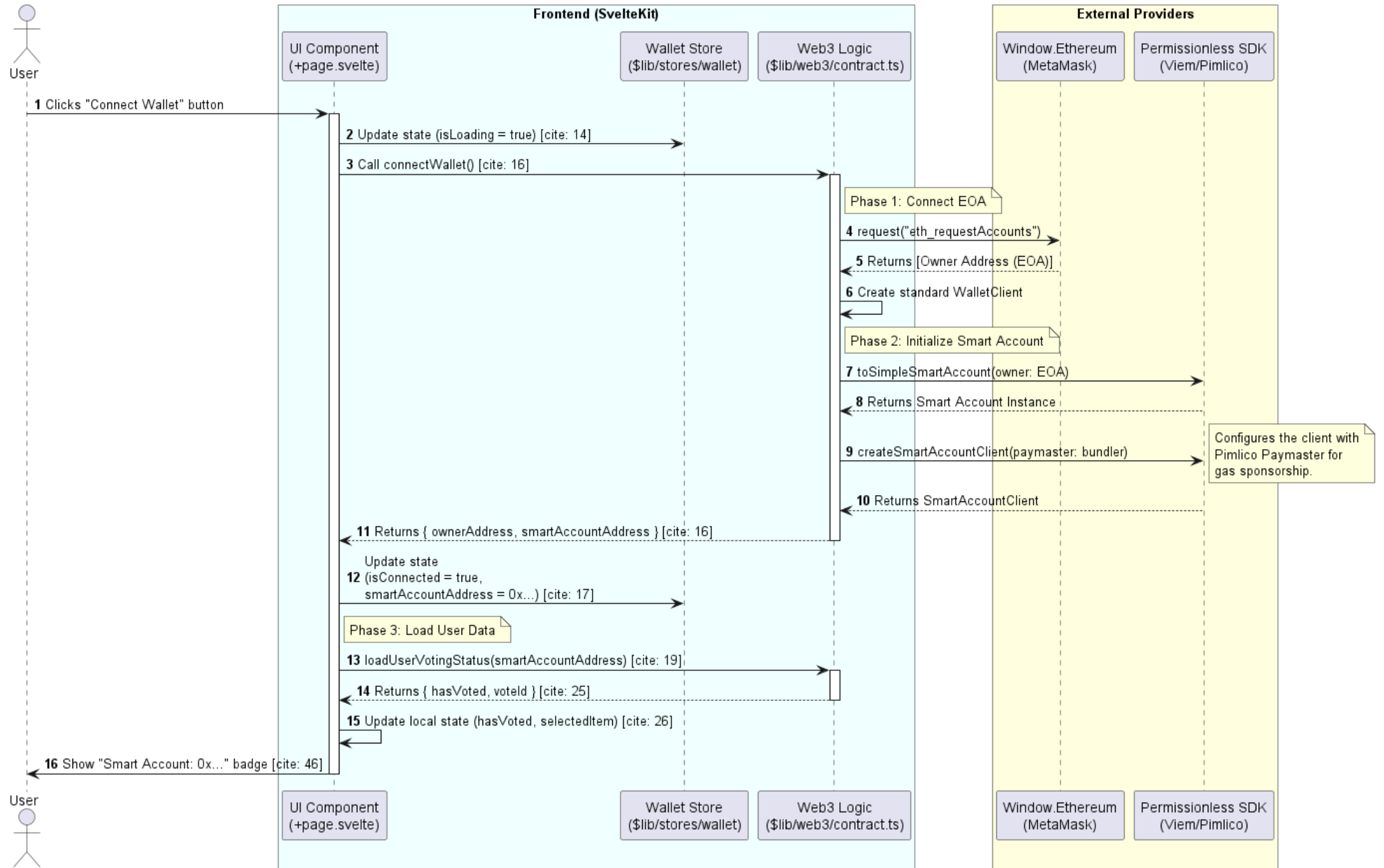
Connecting wallet

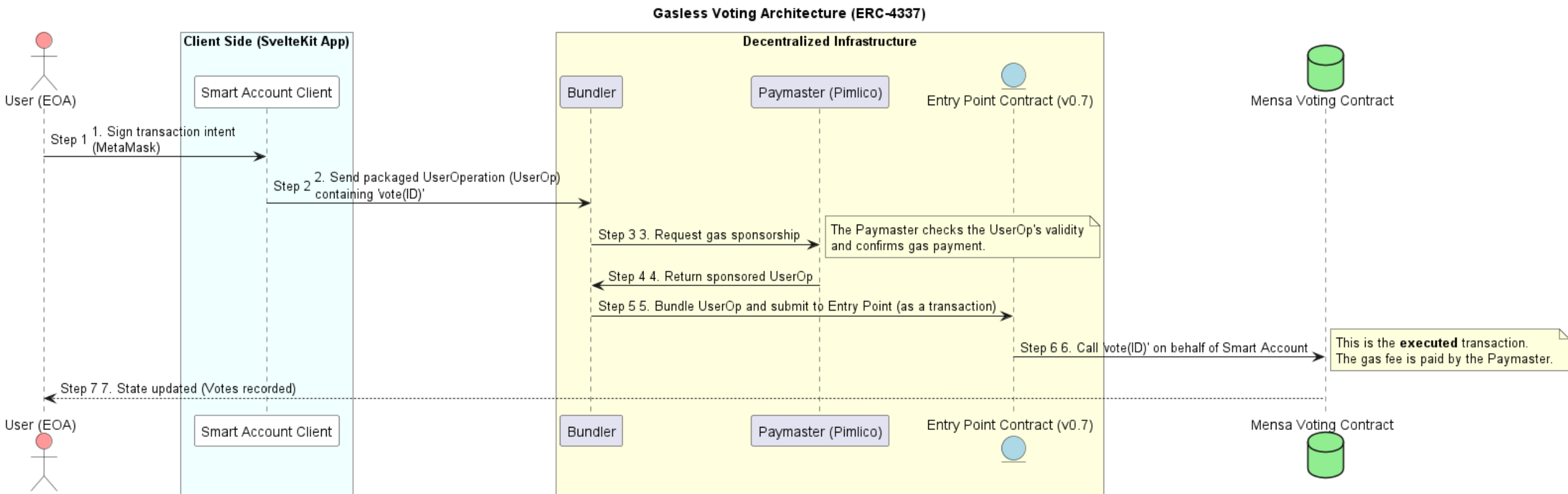


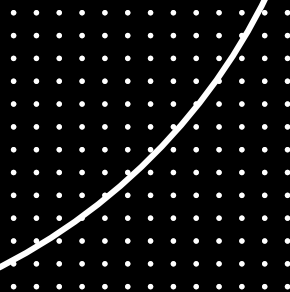
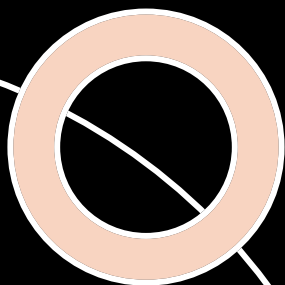
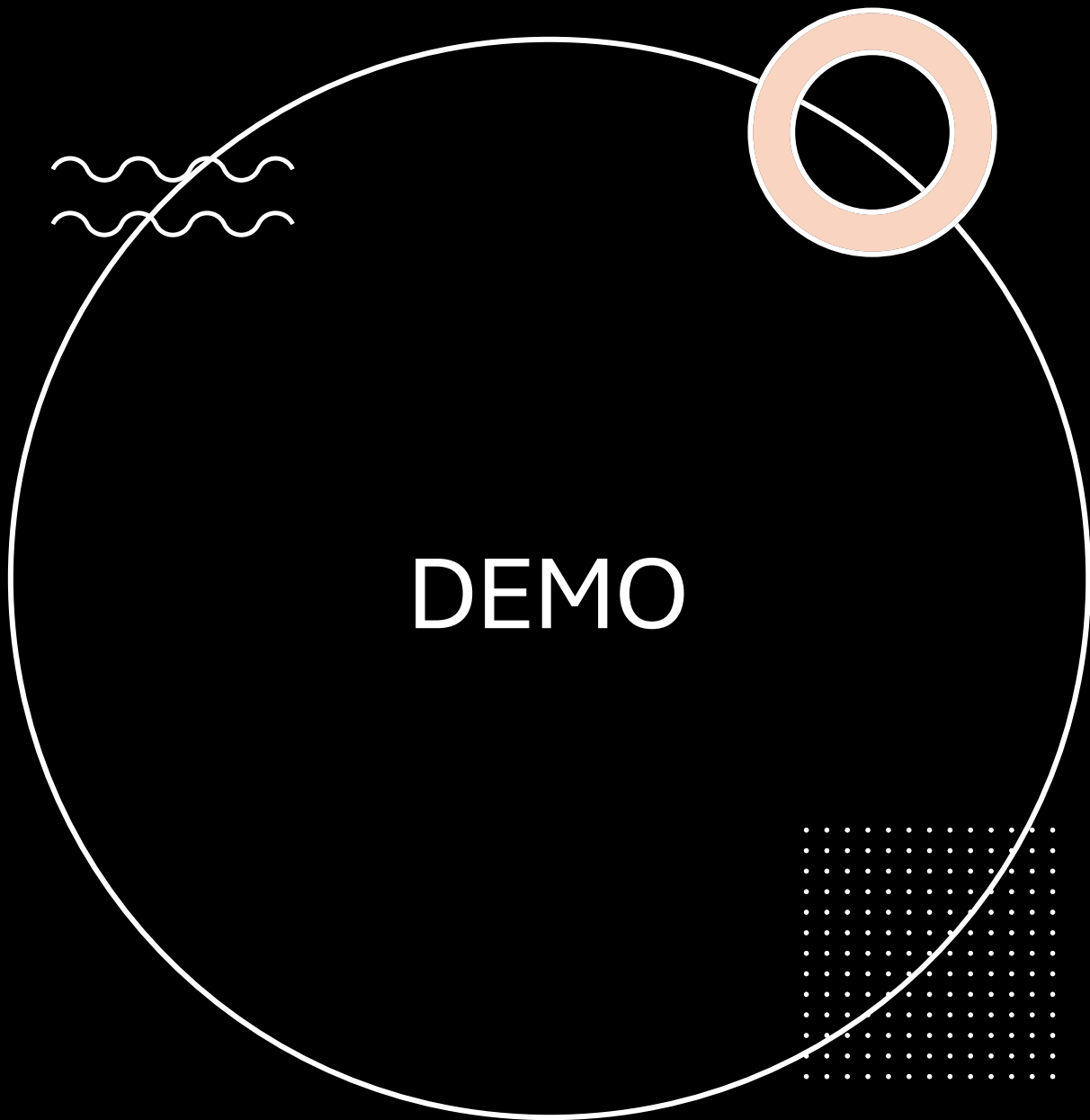
Voting



Connecting Wallet & Creating Smart Account







Conclusion

- Working application
- Could add that owner account can set new voting items instead of just resetting
- Biconomy didn't work as well as expected
- Pimlico works like a charm with permissionless (viem)
- Metamask hogs ram?
- Very interesting and a bit confusing at times