

Network Framework with Transparent Access Control

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Problem

The problem that Corelink aims to solve

02

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My proposed idea

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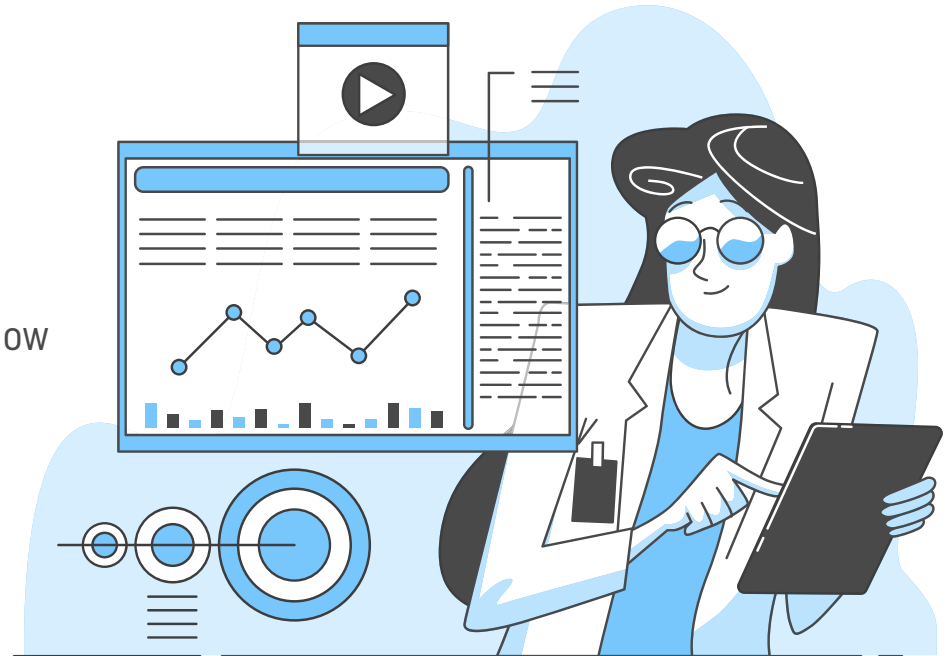
Tools & Methods



Chosen tools/libraries and how I put them together

04

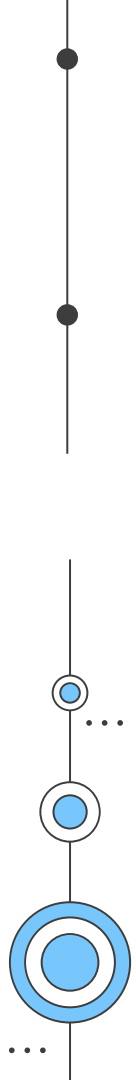
Demonstration

The final product







01 Problem





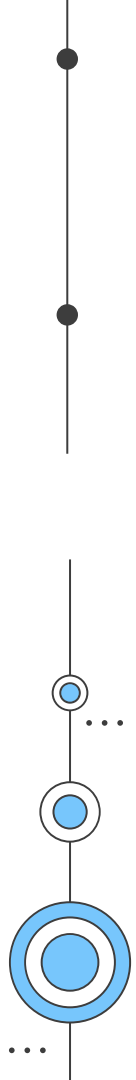
The most well known apps in the world today with the largest users based like Instagram, Snap, TikTok, etc. are built on very big backend system that are inherently centralized. Although these big companies make their best effort to assure us that our data is safe. We would like to know first hand how our data is being interacted with.

...



02

Proposed Solution



Understanding the Problem



Centralized model

Messaging Broker,
Private data center,
etc.

...



Security

Users' anonymity
need to be ensured

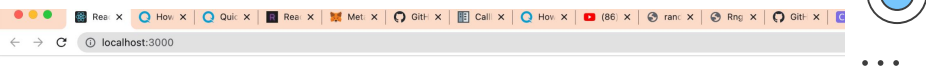
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User experience

Popular apps and
services need to ensure
good user experience

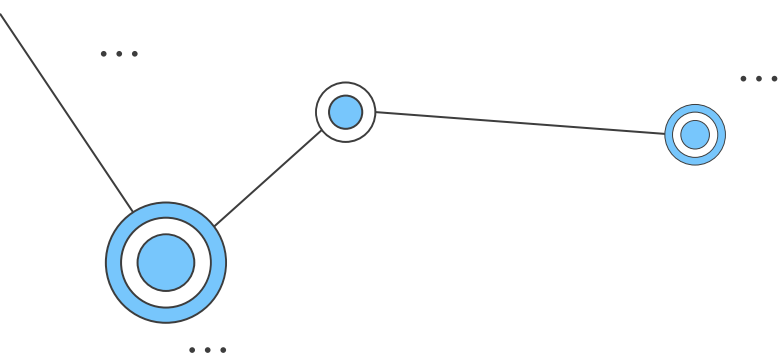
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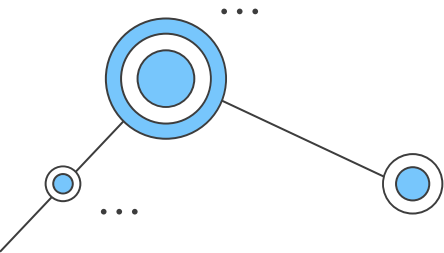
State	Value
Deployed Network Address	0x63f8a8145DCa03aED46439a5e46d326961aBda3e
Default Video Admin	0xDbb389bc8FB32742E8BD3444299C2b538C4F3eA2f
Default Audio Admin	0xDbb389bc8FB32742E8BD3444299C2b538C4F3eA2f
Latest access request	0x63f8a8145DCa03aED46439a5e46d326961aBda3e
Existing streams	1132
	7550
	3598

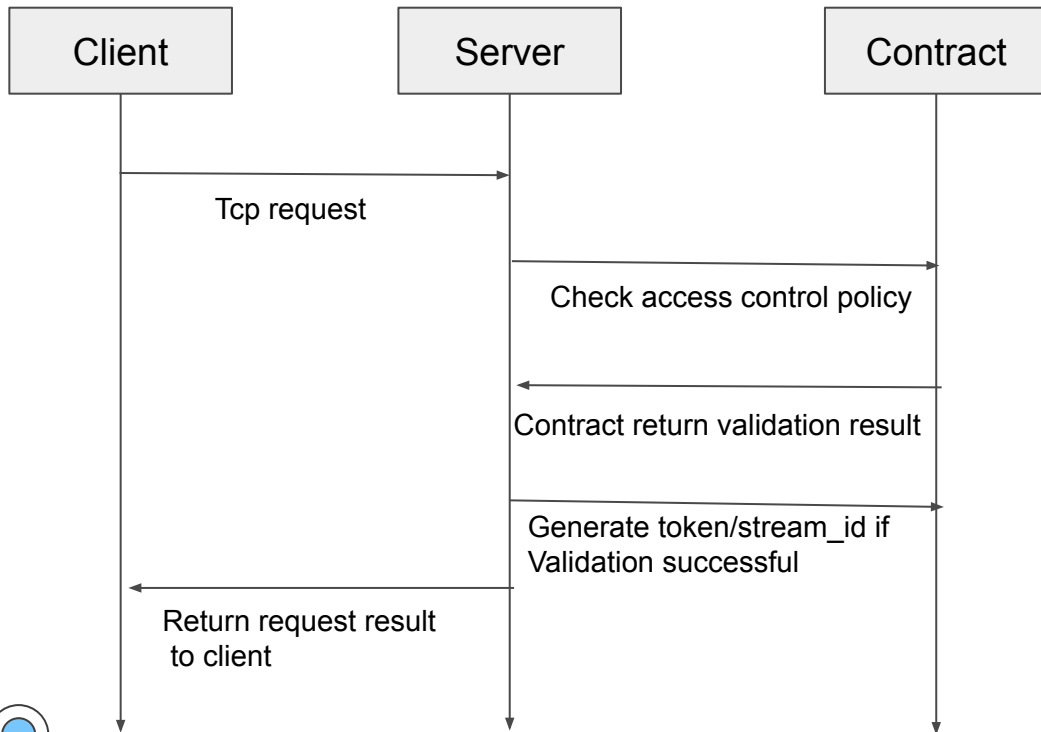
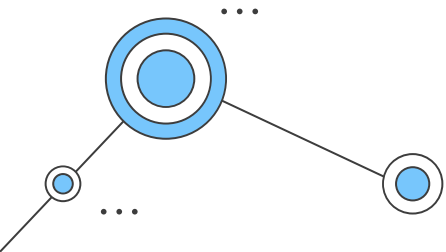
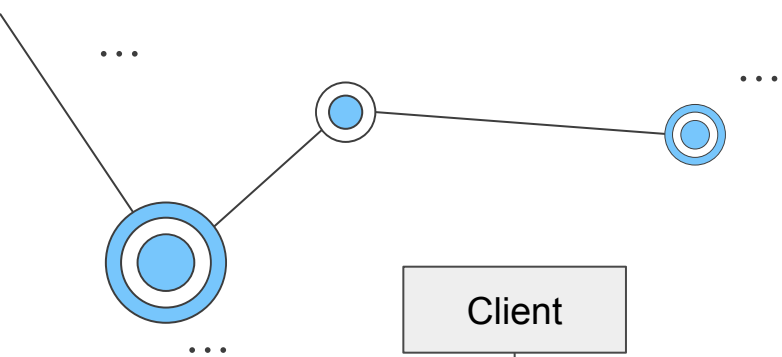
03

Tools



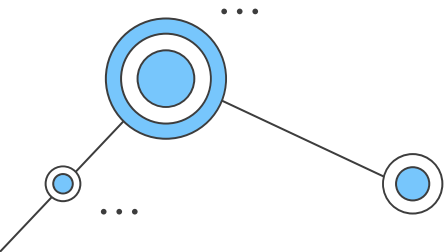
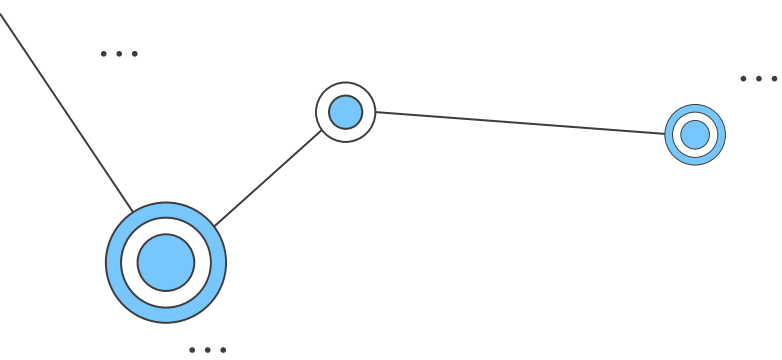
- Truffle: Framework for developing smart contract
- OpenZeppelin: Role based access control
- Rust: TCP Control server
- Rust Crates: web3, serde_json, ...
- React: Building Dashboard
- Web3.js library: interacting with smart contract in js environment
- Ganache: Testing network







Final Product



Thanks!

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