



upsi

blockchain powered, safe and private way to prevent
the spread of sexually transmitted infections



Sexuell übertragbare Krankheit

Chlamydien breiten sich in der Schweiz aus

Mehr und bessere Tests sowie ein neues Sexualverhalten lassen die Fallzahlen steigen. Besonders Frauen tragen ein Risiko: Chlamydien sind ein häufiger Grund für Unfruchtbarkeit.

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requirements

privacy (interactions stored locally)

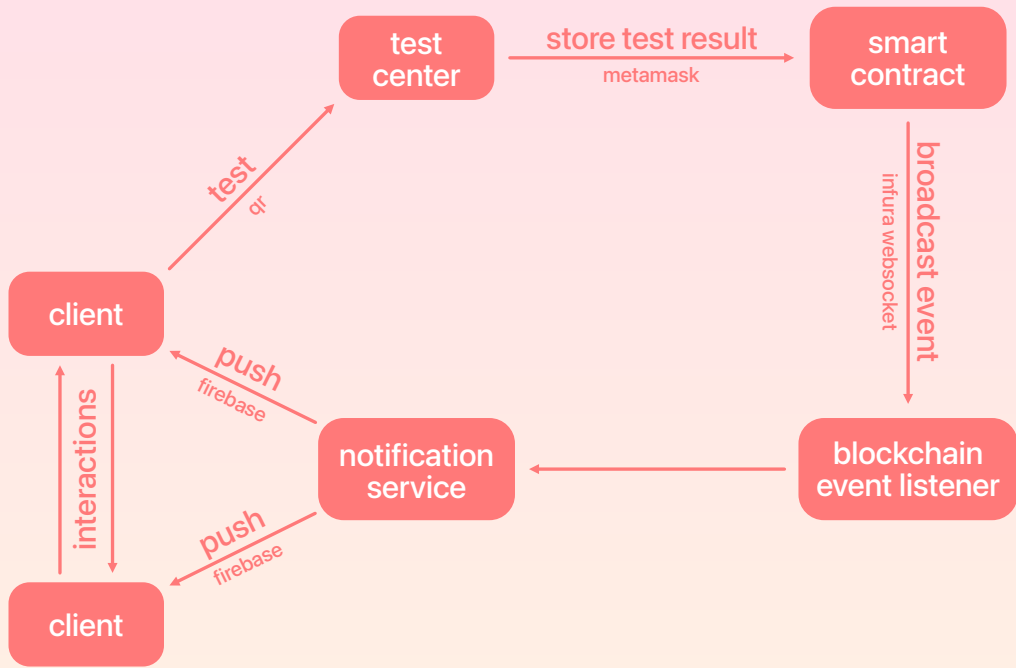
no user accounts

easy to use (no blockchain interaction)

free for users

abuse resistant

architecture



app

built with flutter

packages:

Web3dart

shared preferences

mobile scanner

flutter

pros:

- one codebase (big time savings)
- modern language (dart)
- good dx

cons:

- advanced features like nfc
- would require native code
- native dx still better (comp time)

server

svelte frontend

firebase service for pushes

ethers.js blockchain service

infura websocket event listener

server

pros:

**svelte is frictionless (packages)
ethers.js is quick to get going
metamask works great**

cons:

**missing documentation for
ether.js / blockchain
firebase is painful**

blockchain

**solidity smart contract that
broadcasts an “infection” event**

**blockchain does need some getting
used to (costs, mappings, ...)**

blockchain

pros:

- solidity syntax is familiar (js)

cons:

- deployment and debugin
is complicated
- signature check did not work



demo