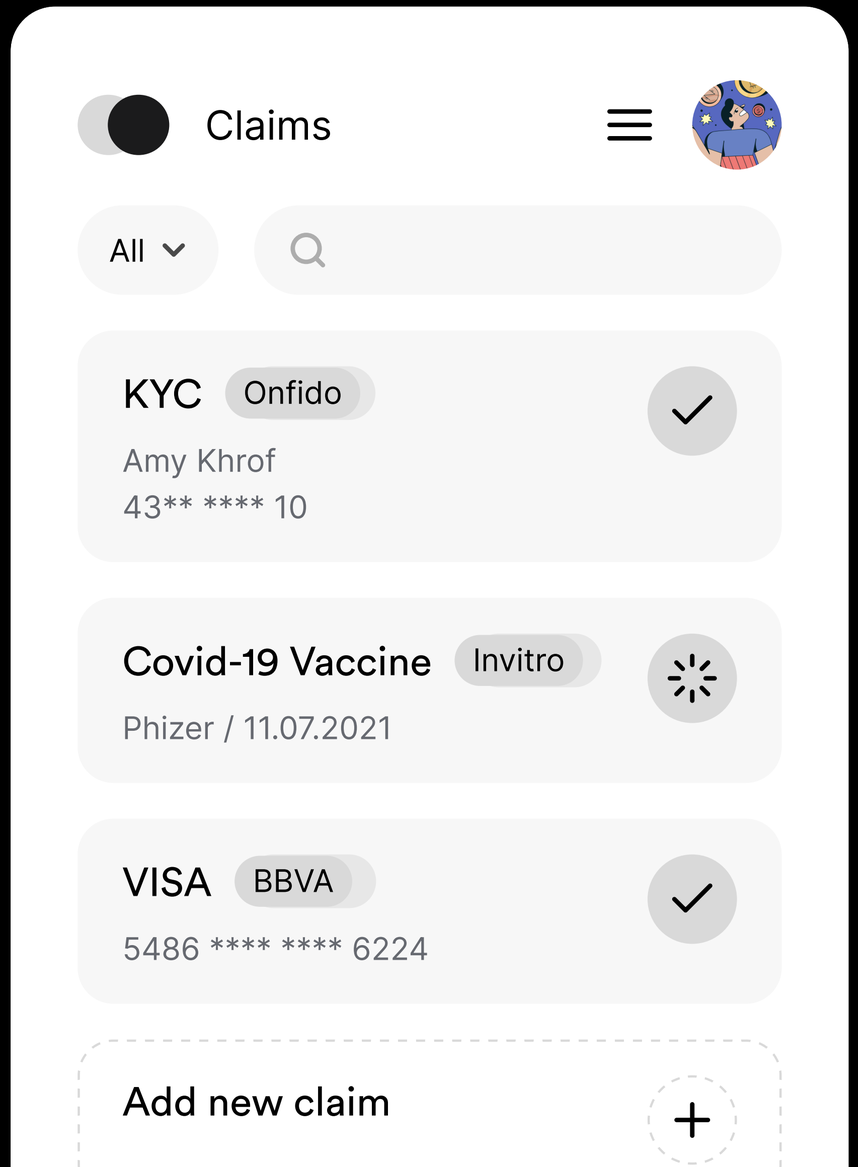


Check

Self-sovereign, anonymous,
verifiable credentials in Web 3.0

Powered by SOLANA

Introduction 👤

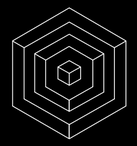
Identity is the core function of trust relationships between physical individuals, things, or any forms of legal entities like businesses, organisations, DAO, and governments.

In the Web3 space, we often talk about blockchain becoming mainstream and being used beyond just finance, but it hasn't really happened yet. **Self-sovereign identity** could be that trojan horse, getting corporations to more widely use Web3 technology.

Check Protocol is a next-generation trust layer based on self-sovereign identity (SSI) with anonymous verifiable credentials.

We really believe that we are ready to provide the solution that will allow everyone in our protocol to have that identity without a large barrier to entry.

Decentralized



Privacy by Design

Permissionless

Problem 🤯

?!

DeFi can't stay without KYC/AML for long

Since DeFi platforms are expanding their use horizons, the FATF has an unyielding determination to disallow further operations of exchanges and DeFi platforms without KYC/AML.

?!

Access to personal data by third parties

Personal data is the oil of the 21st century, companies are aggregating gigantic amounts of personal data, with scant attention to safety, more to sales and improvement of their artificial intelligences.

?!

Prove while staying anonymous

Not every service can be provided to every individual. The company requests additional verification and data to give you access to the required service. This incurs more costs for development and compatibility with regulatory laws (*GDPR, HIPAA, CCPA*).

Solution statement 💣

Part 1

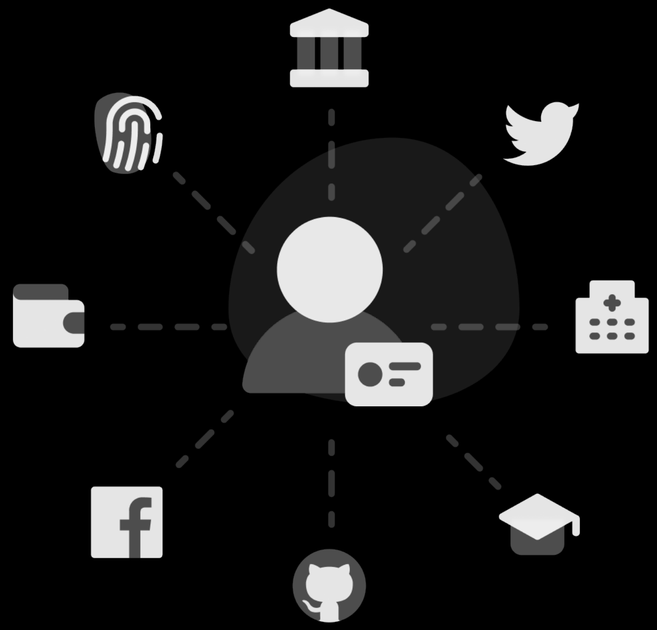
Check Protocol provides transparent and permissionless trust tech stack for the Web3 and Web2 spaces. In order to achieve this, Check Protocol relies on the following simple concepts:

Self-Sovereign Identity

A digital identities that are managed in a decentralized manner. This technology allows individuals and entities to self-manage their digital identities without depending on third-party providers to store and centrally manage the data.

Decentralized Identifiers (DIDs)

A new type of identifier that is globally unique, resolvable with high availability, and cryptographically verifiable.



Solution statement 🚀

Part 2

Verifiable Credentials

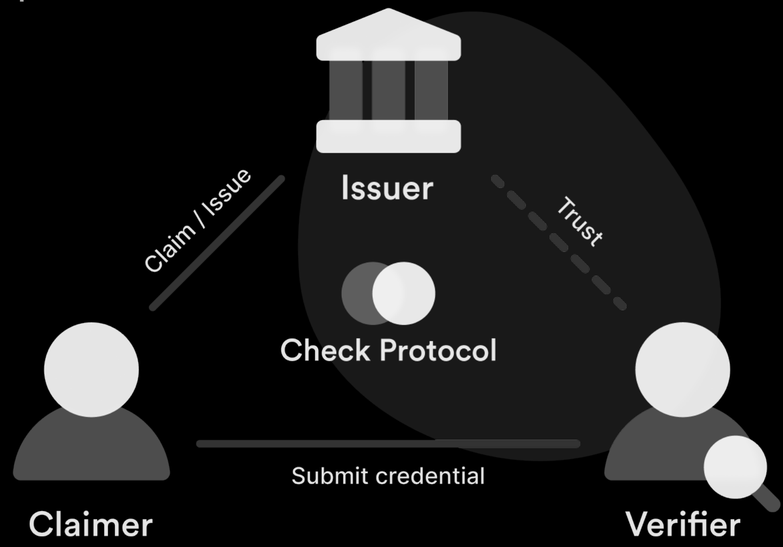
A data that is needed to prove that a claim is issued by a specific identity and held by another specific identity. This data is composed of a claim and a proof.

Roles

Any entity can take on any of the following three basic roles in the network: *Claimer*, *Issuer*, *Verifier*.

Decentralized communication

Messaging protocol based on pub/sub over Libp2p, ensuring private, secure communication.



Features in a nutshell 🕹️

Self-sovereign identity

Verifiable credentials
Permissionless

Full power of decentralization

Solana-based registry
Decentralized communication on Libp2p

Authenticity oracle for DeFi/DAO

Allows projects to verify and authorize their users without collecting/storing personal data

A decentralized identifier (DID)

A new type of identifier that enables verifiable, decentralized digital identity

End-to-end principle & encryption

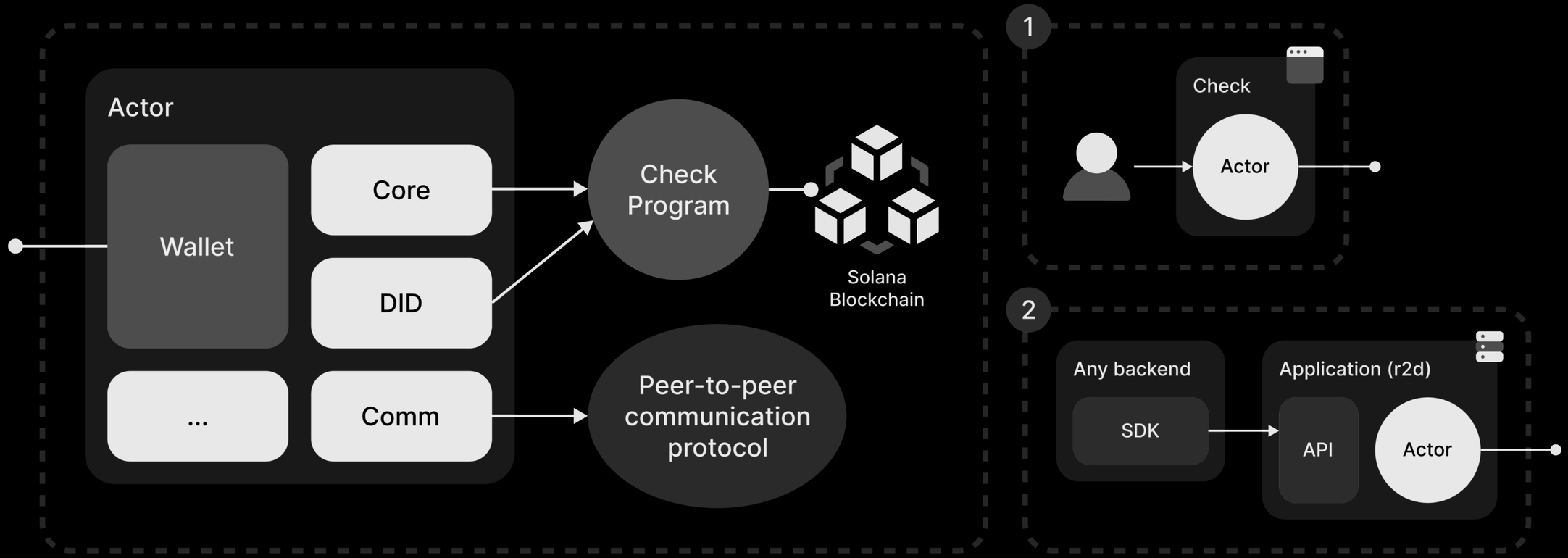
Private data is not collected anywhere and cannot be decrypted

Selective disclosure of personal data

Revealing users' identities based on their preferences

Architecture 🛠️

Each participant of the Check Protocol is an actor. An actor can be implemented either in a browser or as an independent application. Actors communicate with each other through a peer-to-peer secure communication protocol. Any claim types, attestations, DIDs are stored in a blockchain.



Cases 🎯

1. Verifiable authenticity of blockchain participants and NFT creators over check web2.0 accounts and other blockchain addresses.

2. Private pools - verify your liquidity providers.

3. Know your customer (KYC) for DEX/CEX and DAO.

4. Integration with Web 2.0:

   - Healthcare organisations (AntiCOVID tracking, Medical staff credential verification)
   - Government services
   - Single Sign On (SSO)
   - Fast authorized payments (Solana Pay, etc.) on services that request KYC.

Get more - https://getcheck.dev/

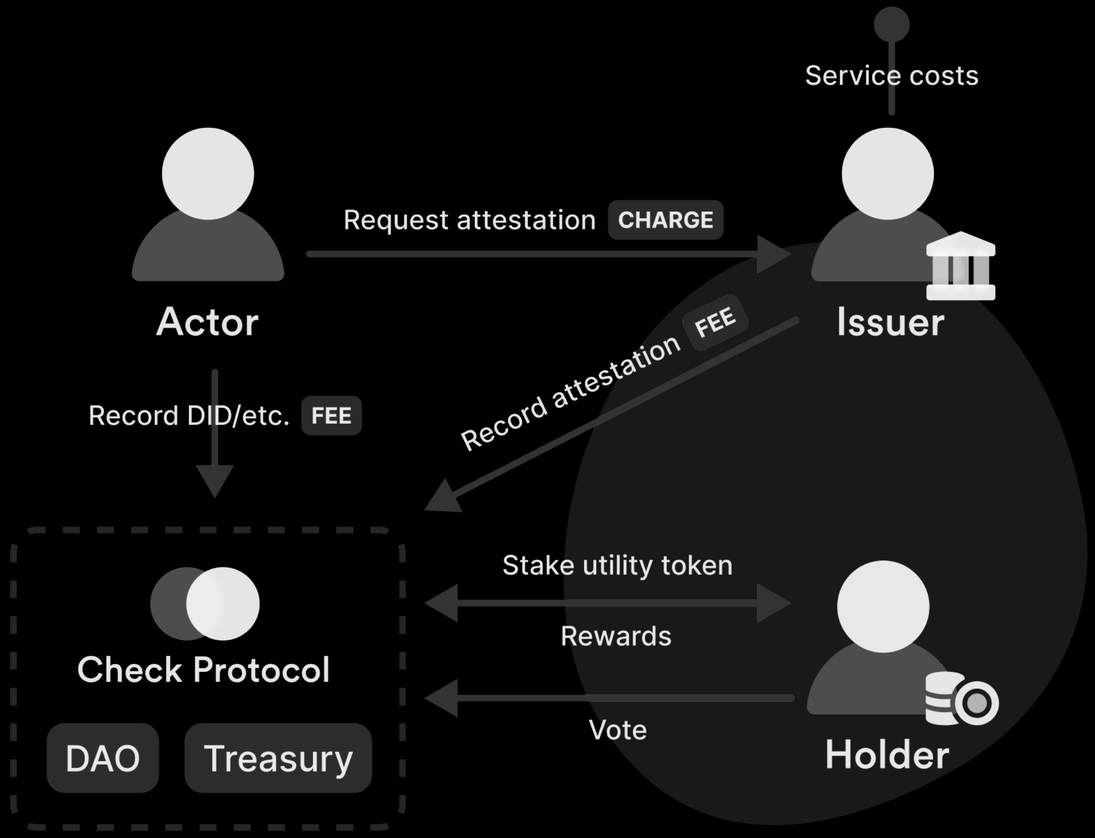
Token utility ⛽

Check Protocol is built on *Solana* blockchain and already includes the use of a native *SOL* token to pay storage fees such as attestations, DIDs, hierarchy, claim types. As well as for supporting the operation of the protocol, including *treasury*.

Each *issuer* can charge for its services. This covers its internal costs as well as the fee of recording to the blockchain. The charge is greater than or equal to zero.

A utility token *CHK* is also provided to support the operation of the protocol and *DAO* (vote for functionality changes and upgrades as well as usage of *treasury* funds), and to earn rewards by stacking into the protocol.

SOL CHK



Competitive advantages 💊

Full decentralization

The entire protocol and all our solutions are based on the basic principles of decentralization and privacy.

Speed and low cost

We chose Solana as a part of our solution because of its speed and low cost. While keeping the cross-blockchain capability.

DAO as a foundation

Governance token holders can participate in how the organization is run.

Ease of Use

We want to be the easiest SSI solution to use. Easy accessibility for both participants and services.

Not just a protocol

We don't want to remain just a protocol that nobody uses. We want to simplify the threshold of entry as much as possible, while keeping the main contributor out of power.

Roadmap 📍

Q1
2022

- [x] Smart contracts
- [x] Core features
- [x] Solana Hackathon 🎉

Q2
2022

- [x] Comm: Decentralized communication
- [x] Pitch deck
- [x] Private pool example

Q3
2022

- [ ] UI Application prototype
- [ ] KYC Issuer integration
- [ ] Ready-to-deploy Application
- [ ] Delegations
- [ ] DIDs
- [ ] Legal: Company

Q4
2022

- [ ] VC Data Model v1.1 compatibility
- [ ] Private sale
- [ ] Establish partnerships with potential issuers
- [ ] Community building (first stage)
- [ ] Audit

Team 🏄

Vecheslav Druzhbin

CTO
Blockchain developer and technology enthusiast

Alexandra Nartova

CMO
5 years in blockchain marketing

Alexey Nagorny

Full-Stack Developer
5 years in software engineering

Lidia Zhabo

Full-Stack Developer
3 years in software engineering

Join us!

Blockchain Jedi

Let's build together 🍻

- getcheck.dev
- github.com/getcheck/check
- t.me/check_protocol
- @check_protocol