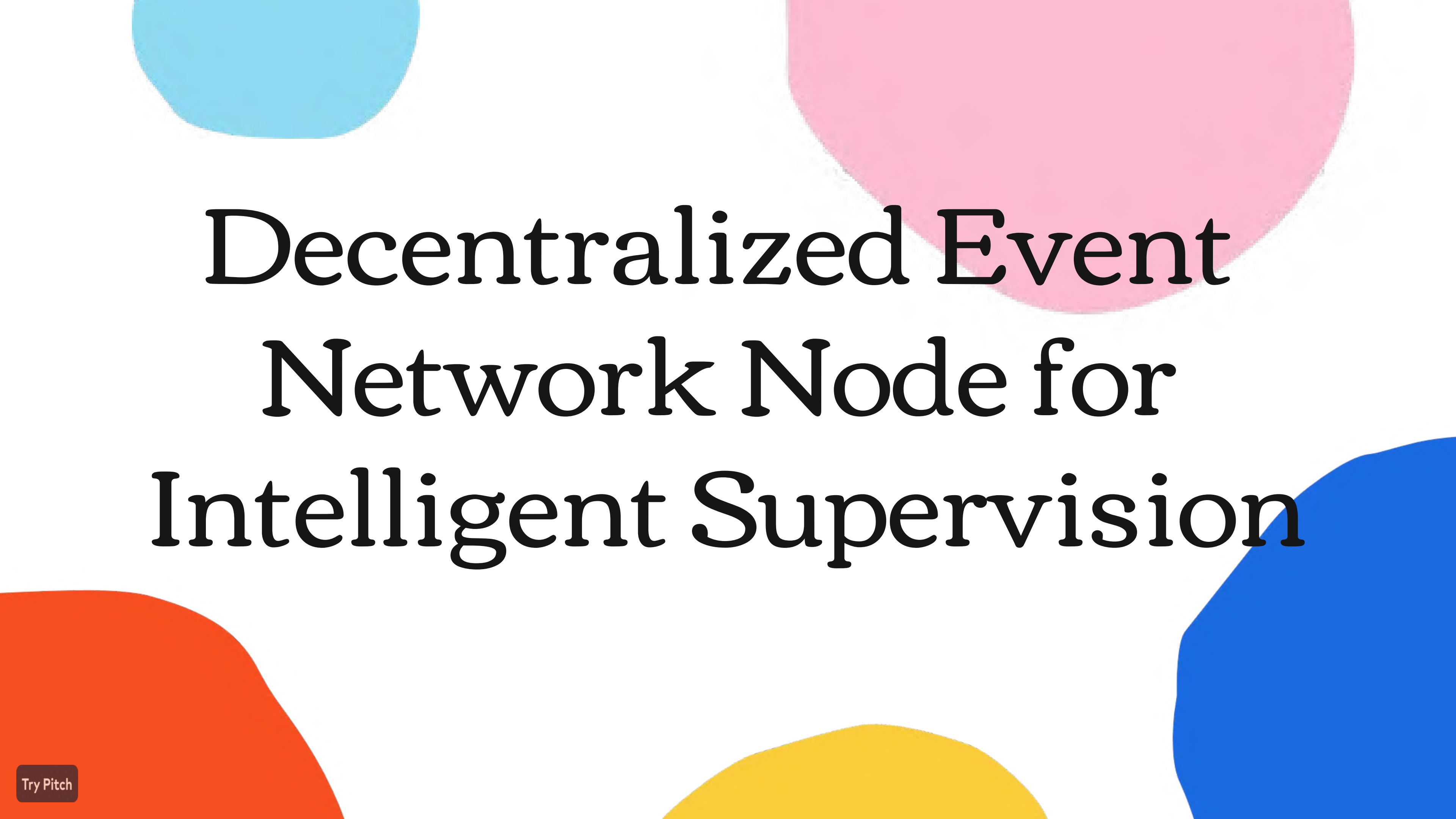




Proof Invisibilty

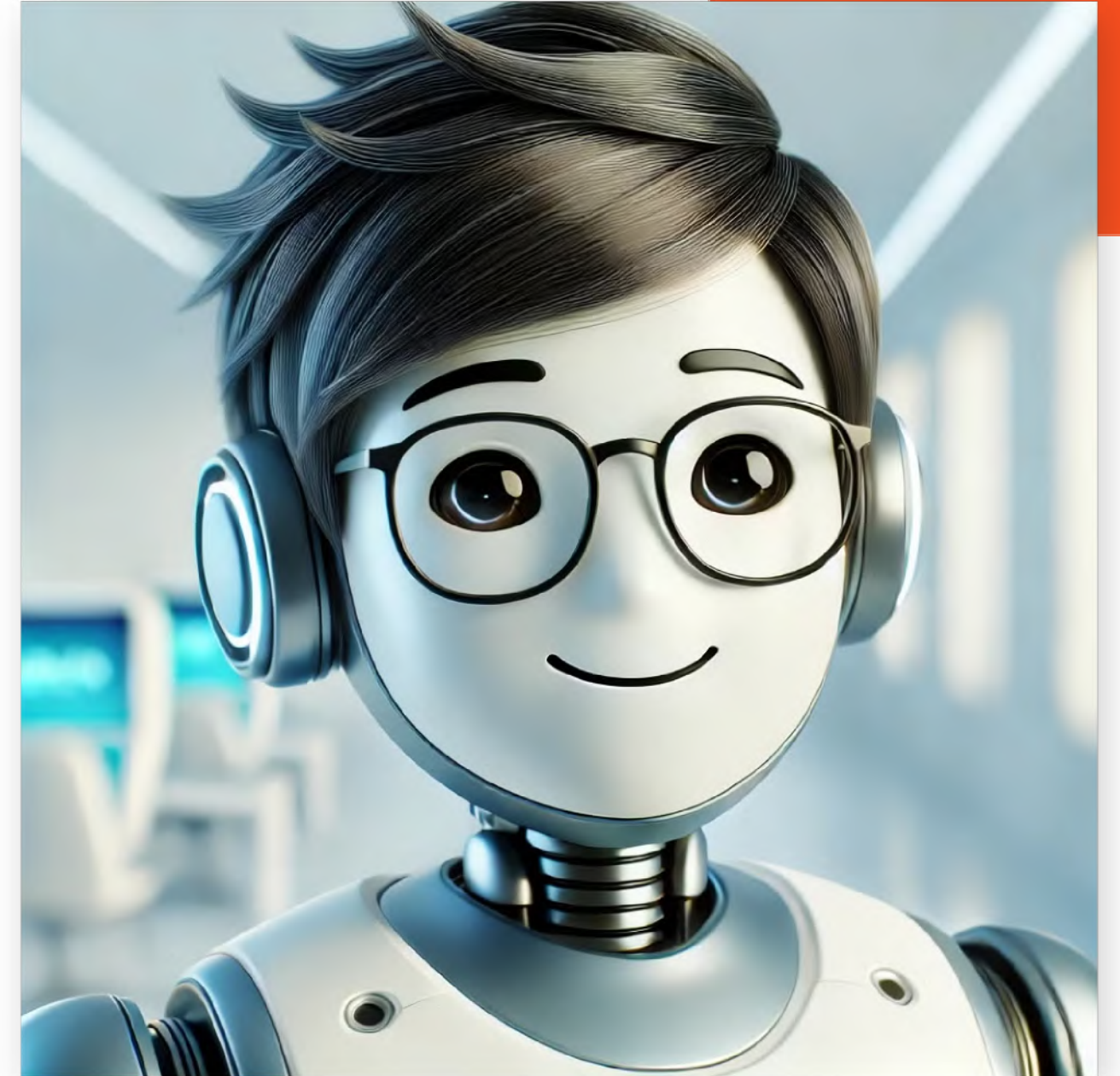
Let's build a
decentralized *almost*
invisible
event attendance system



Decentralized Event Network Node for Intelligent Supervision

Was known
as

DENNIS



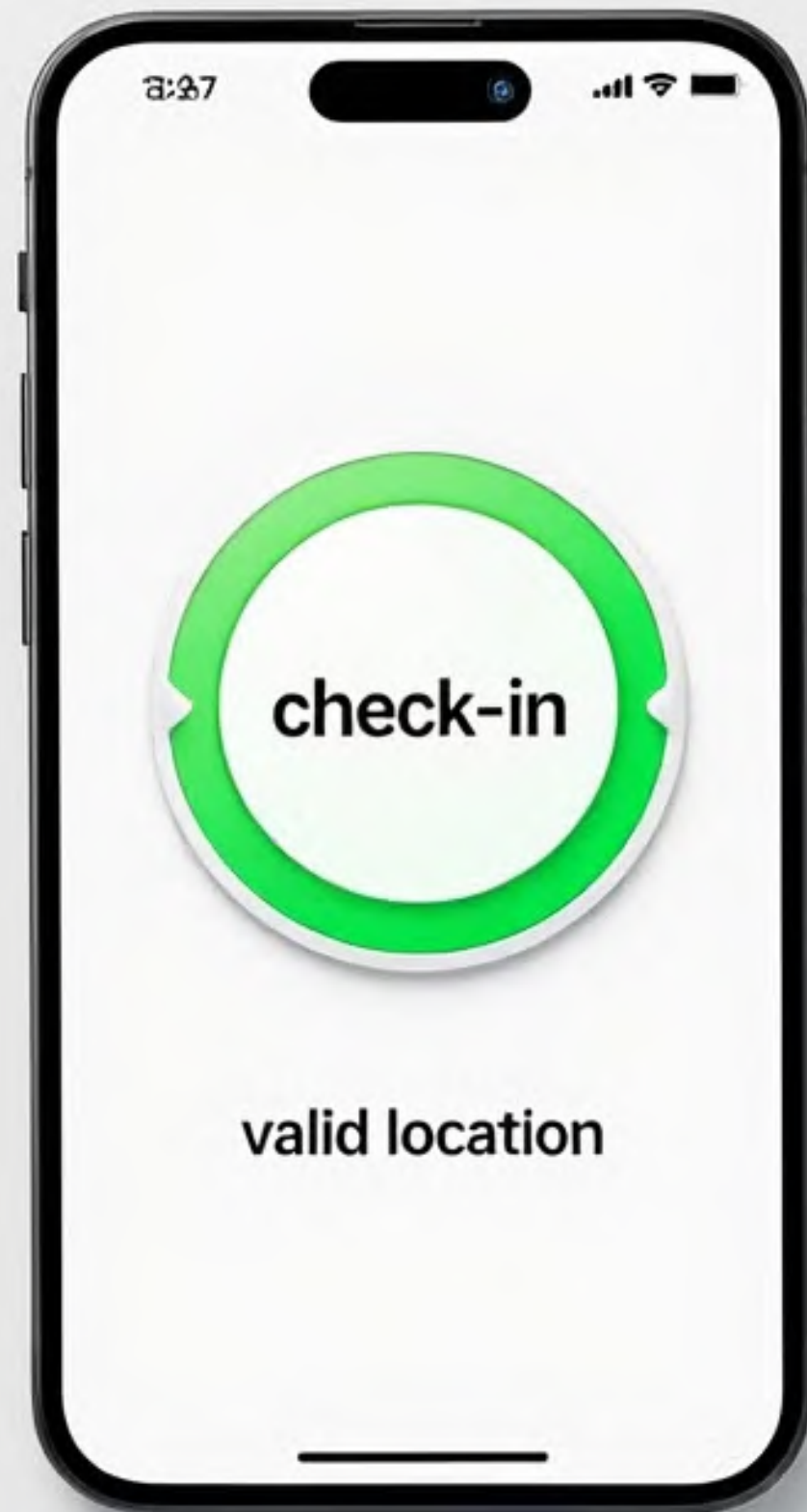


Masked Identity Check- ins with Cryptographic Knowledge Yield

Now known
as

MICKY





Overview: Privacy-Preserving Automated Check-In System

Purpose: To track office or event attendance using zero-knowledge proofs (ZK proofs) to protect user privacy.

Key Components:

- **NFC Device:** Verifies physical presence and provides valid data.
- **Check-in App:** Simplifies check-in for users via mobile devices with simple App.
- **Zero-Knowledge Proofs:** Ensures attendance is recorded without revealing user data.

Comparison of Verification Methods

The key points of the verification are people, location, attendance...

WiFi Verification:

- Simple but can be spoofed by duplicating network SSID.
- Requires additional hardware (WiFi routers).

GPS Geofencing:

- Easy to implement and widely supported.
- Susceptible to spoofing, making the data less trustworthy.

NFC Verification(*Selected*):

- Secure and physical, but requires users to tap an NFC tag.
- Ensures precise location verification and provides reliable data for proof generation..

Technical Architecture

Frontend (local device):

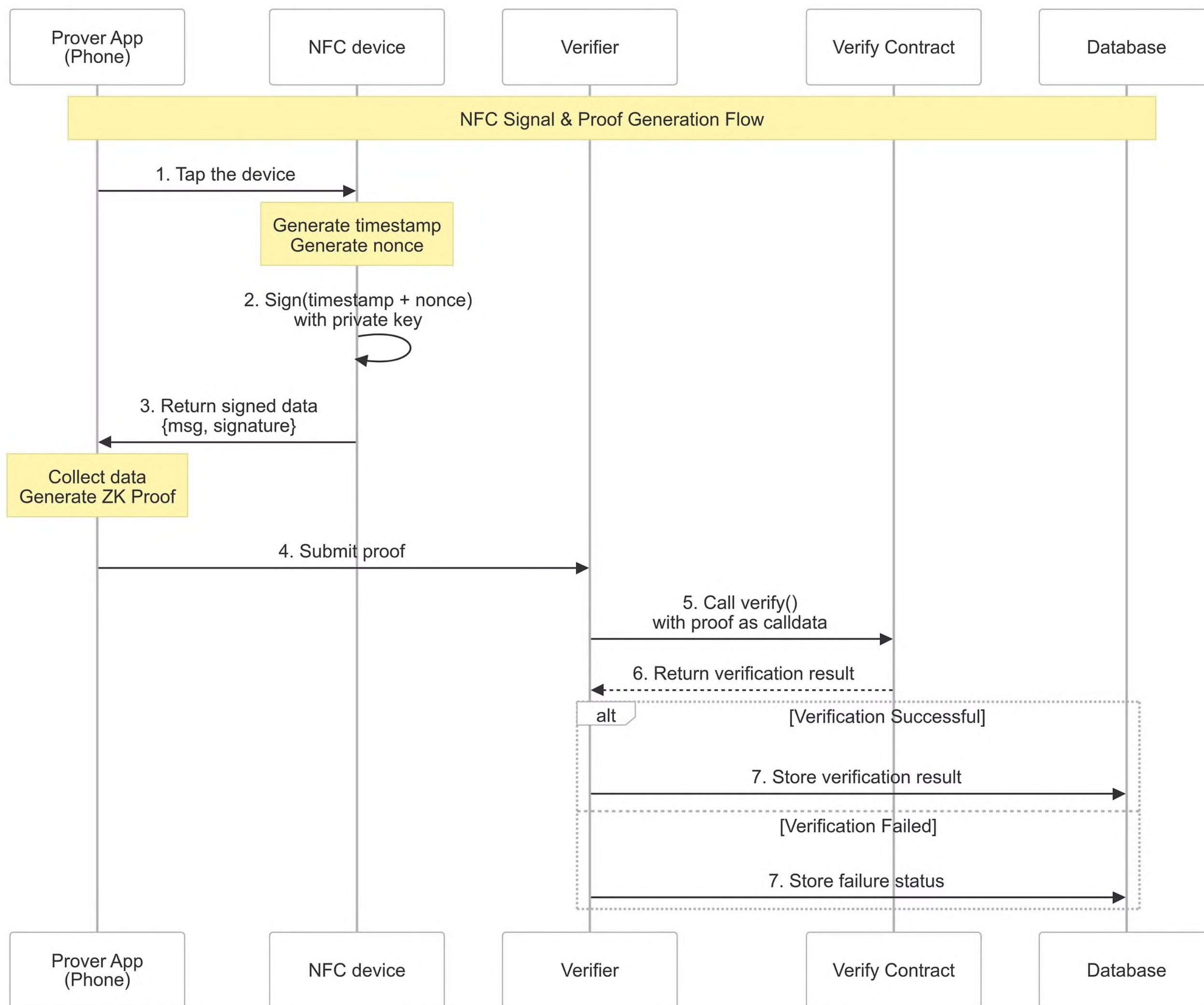
- simple app to interact with NFC device to make location verification and check-ins.
- generate proof and send to verifier.

Backend:

- verifying ZK proofs (attendance record).

Security:

- Proof of attendance is stored on the server, but personal data remains private through ZK proofs.





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