

A technical overview of uPort

Building dapps for non-technical users is hard.

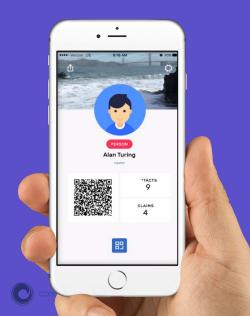
You'll need to consider the following:

- Account management and login?
- User friendly key management and recovery?
- Onboarding new customers without ether/Gas?
- Self-explaining transaction interface?
- Know your user/KYC?
- Transaction history? Reputation?
- ... and more.



uPort is Ethereum's user platform.

uPort is a self-sovereign identity, secure single sign-on, and digital signatures app – for use with both Ethereum and client/server apps.





Identity for Ethereum apps



Passwordless, single sign-on



Simple and secure key management



User reputation system

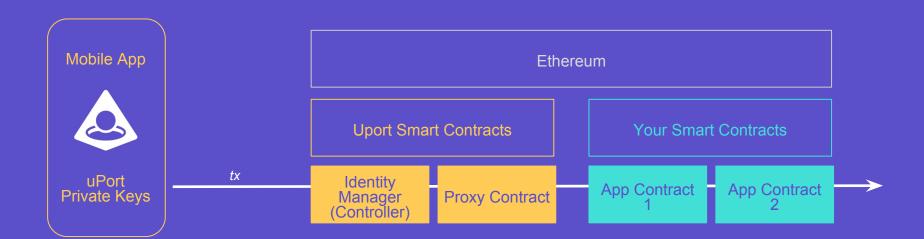


Browser-to-mobile app comms



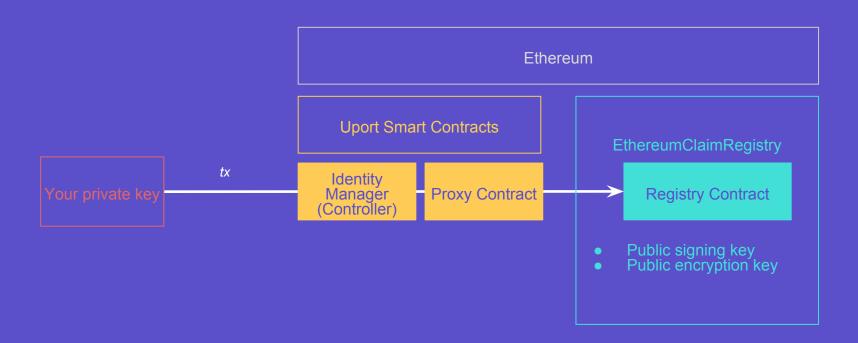
Identity verifications/KYC

uPort uses a smart contract identity model.



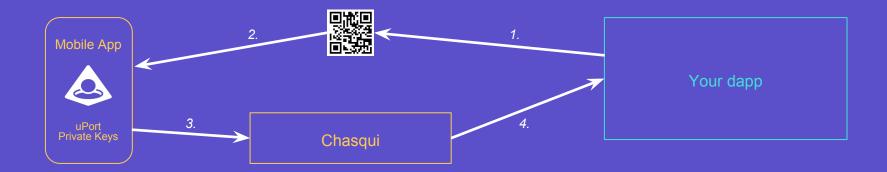


A minimal PKI.



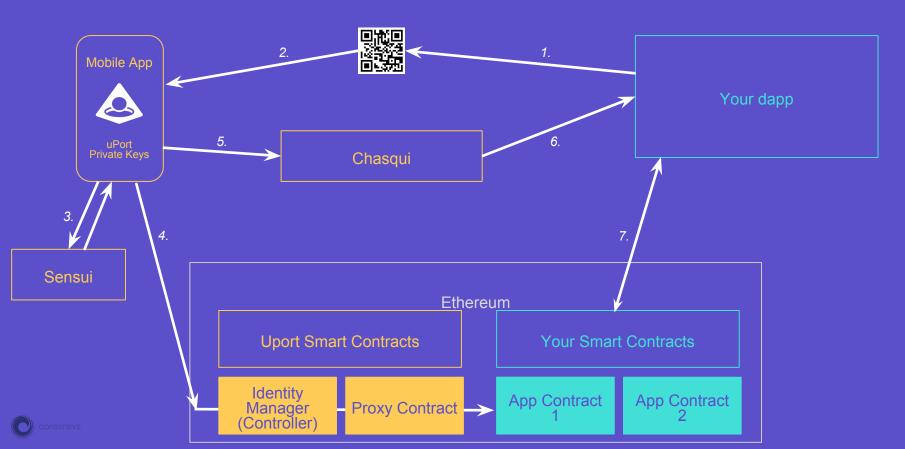


uPort Architecture.

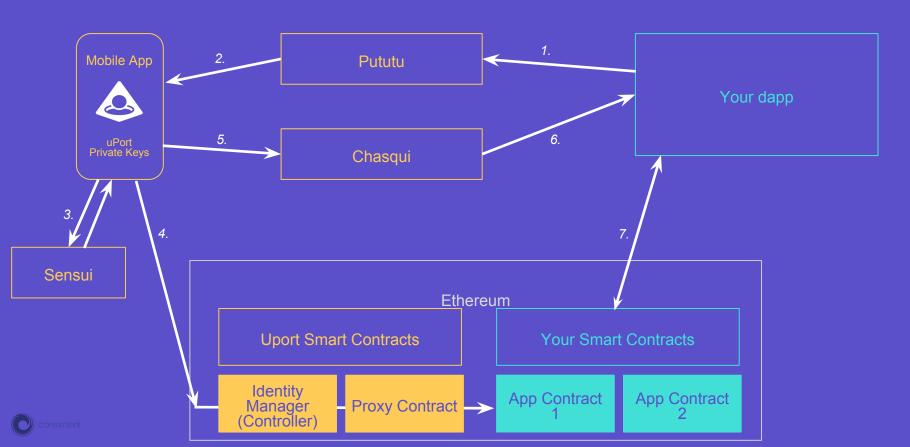




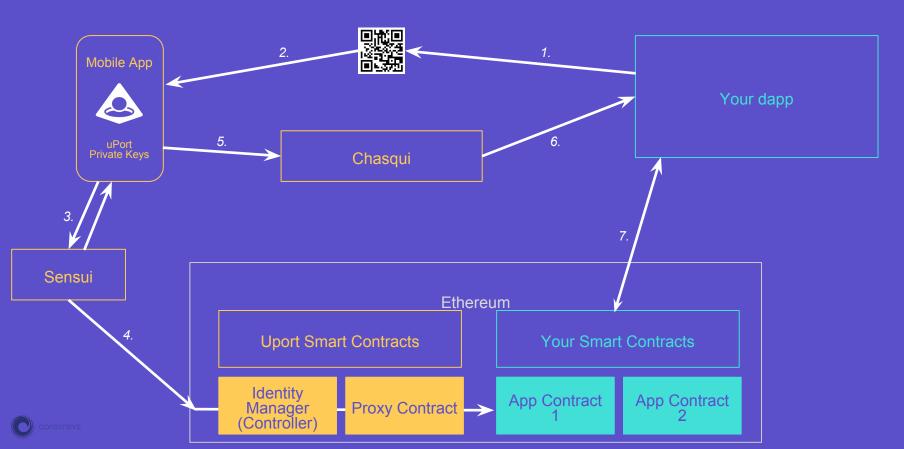
uPort Architecture.



uPort Architecture.



Meta Transactions.



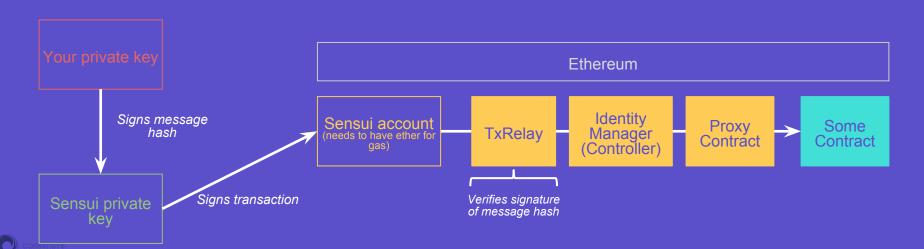
Meta Transactions.





Meta Transactions.





Developer Features

uport AppManager

uport

Create an ethereum identity for your application

Register your app with uPort AppManager to begin building trust with users.

Connect with uPort

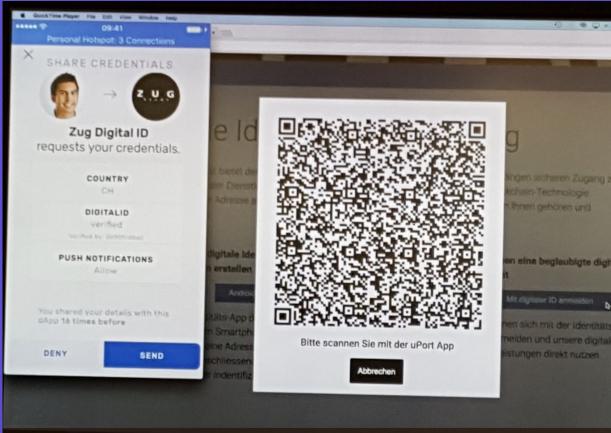
Connect with uPor (legacy ropsten) Scalable service infrastructure We maintain your identity and transaction infrastructure so you can focus on your application.

Transaction Card UI
Mobile transaction cards give
users clarity and confidence in
signing transactions.

Push Communication Protocol Push protocol for transactions and data builds new interaction models with users, including asynchronous communication. Application Identity
Manage the identity of your
application with our
AppManager developer portal.



Developer Features



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Integration demo.



Open Source Libraries

Connect is the client side library for integrating uPort so users can communicate with your app. It also allows for "sign in" to your app, issuing requests for user data, and sending transactions for them to sign.

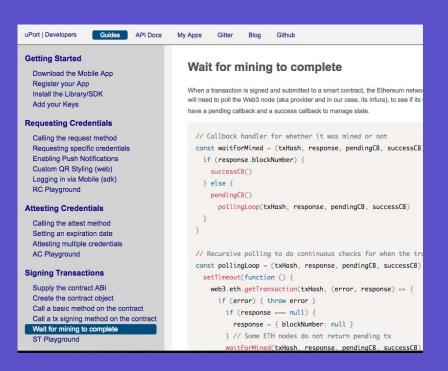
Uport-js is a library used for **requesting private data from users, verifying signed tokens, and issuing attestations**. Users and services sign
Json Web tokens (JWT) in order to share
verifiable data privately. (**off-chain**)

Smart Contracts are open source and deployed uPort registry can be used to create on-chain
attestations or provide app-specific data.

Core protocol specs are open source and openly developed. The uport mobile app religiously follows these.



Documentation & Getting Started



Android

iOS

All in one documentation site

- Learning guides & live embedded examples
- Library documentation
- App Manager (register your app)
- Developer chat (Gitter)
- Engineering blog
- Github organization.

developer.uport.me

(** The site is under active development)



Thank you!

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