






XFolio

Henry Stolz

*A decentralized cryptocurrency
portfolio manager*

Background

- Fiat Currency
 -  **PayPal**,  **VISA**
 - Private, Centralized
 - Users trust the *authority*
(corporations, governments)
- Cryptocurrency
 - , , 
 - Public, Anonymous, Decentralized
 - Users trust the *technology*
(blockchains)

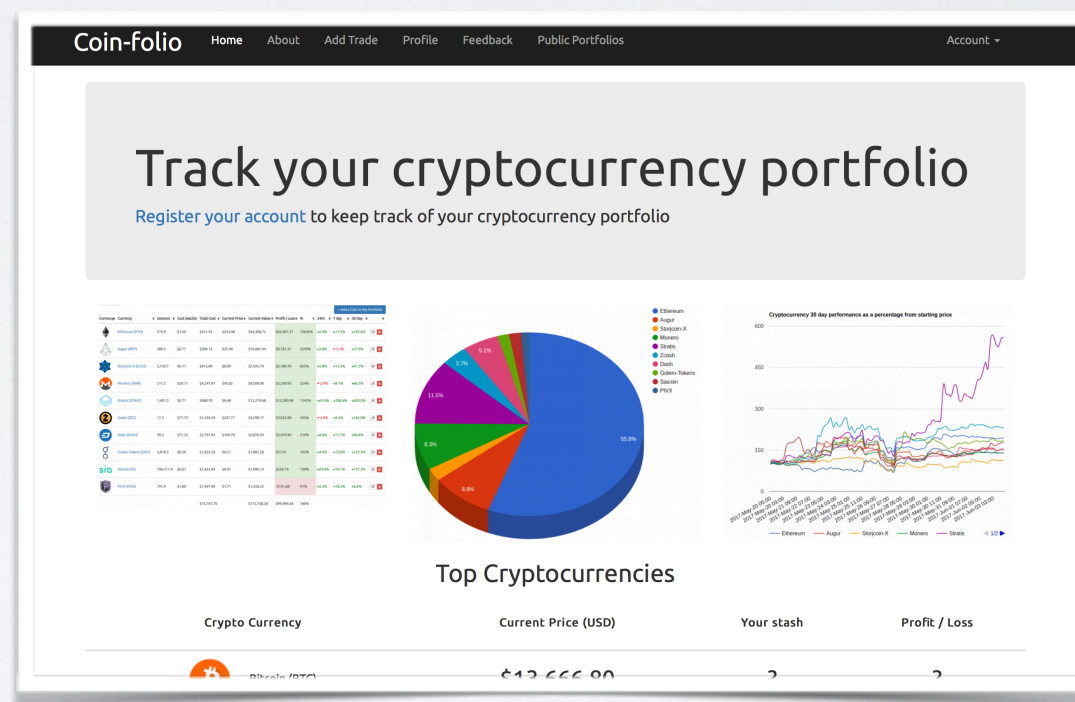
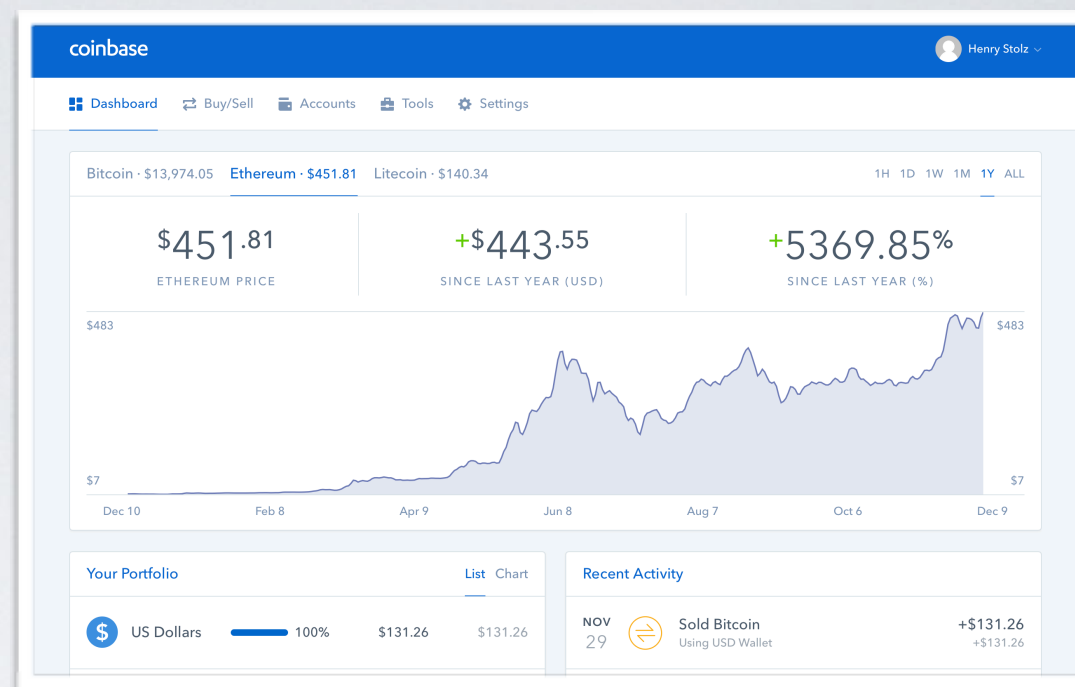
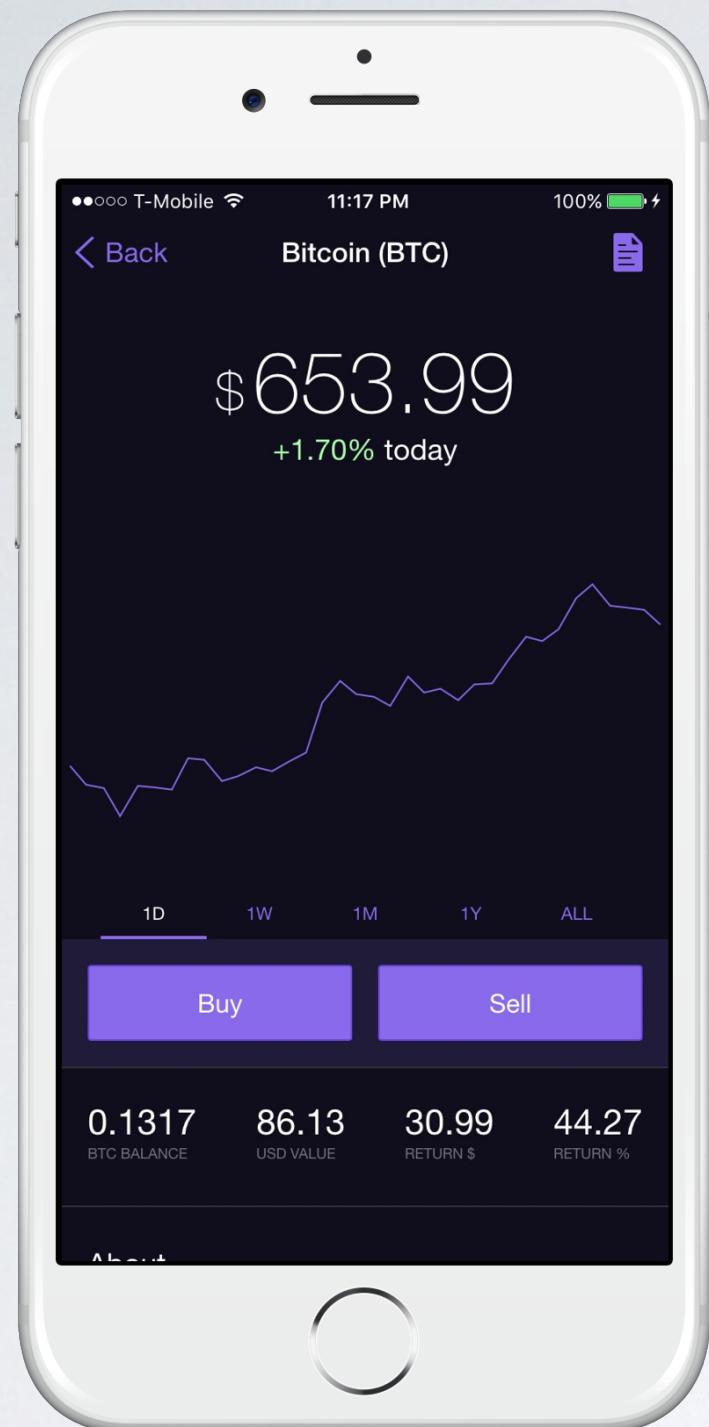
Motivation

- High-profile security breaches
- Cryptocurrencies are growing in popularity
- Portfolios should be decentralized as well



Goal

- **XFolio** — a cryptocurrency portfolio platform
 - Users control the storage of their data
 - Decentralized — like cryptocurrency
 - Record cryptocurrency (BTC, ETH, LTC) assets
 - Track performance
 - View historical data



Related Work

Approach

- Q: How do we create decentralized apps?

A: Blockchains!

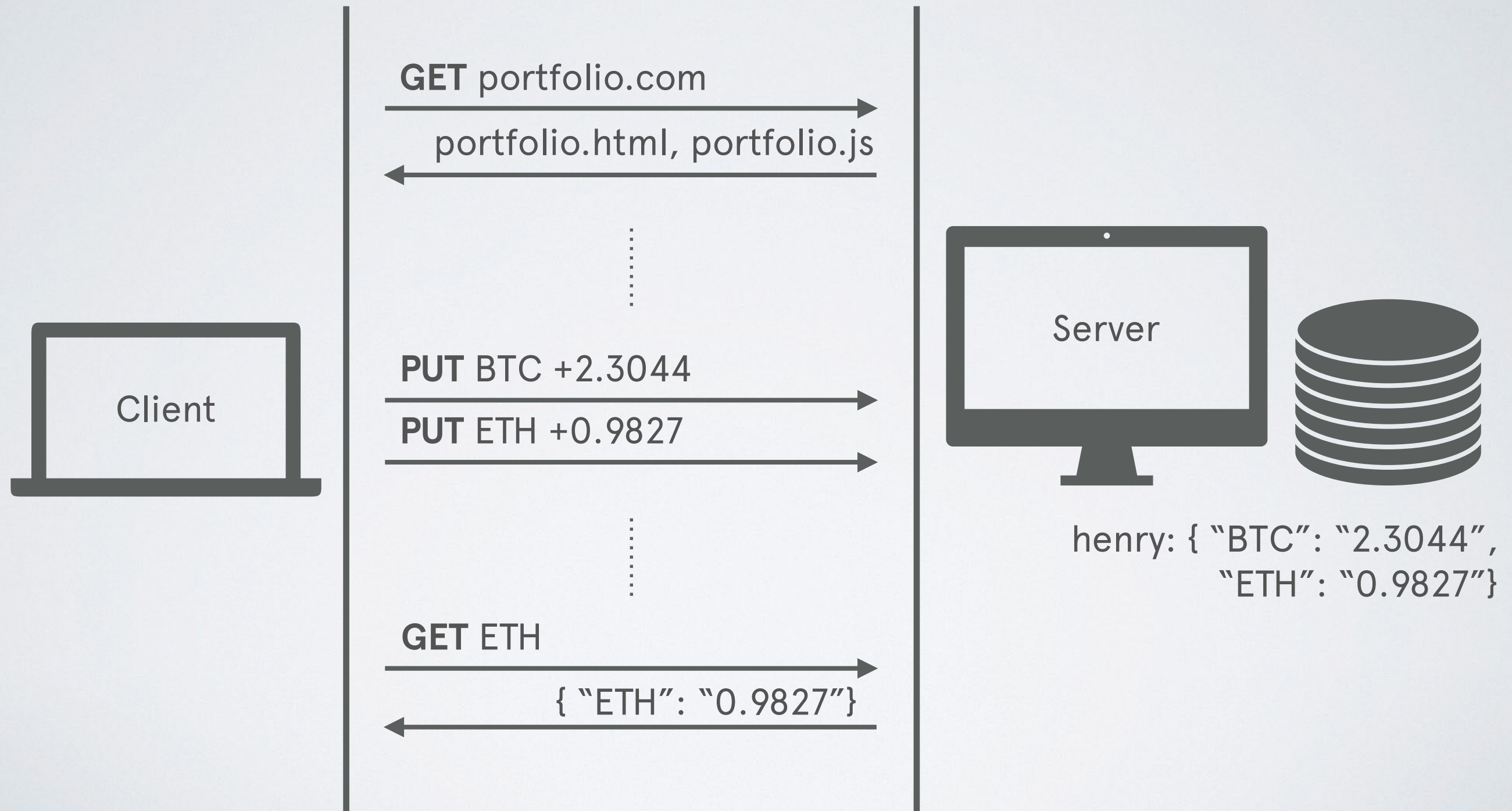
- Enter  **B L O C K S T A C K**
 - A layer atop the blockchain

XFolio

+ BTC	\$16,420.0
0.023	\$377.66
+ ETH	\$464.51
0.0	\$0.00
+ LTC	\$156.05
4.23	\$660.09

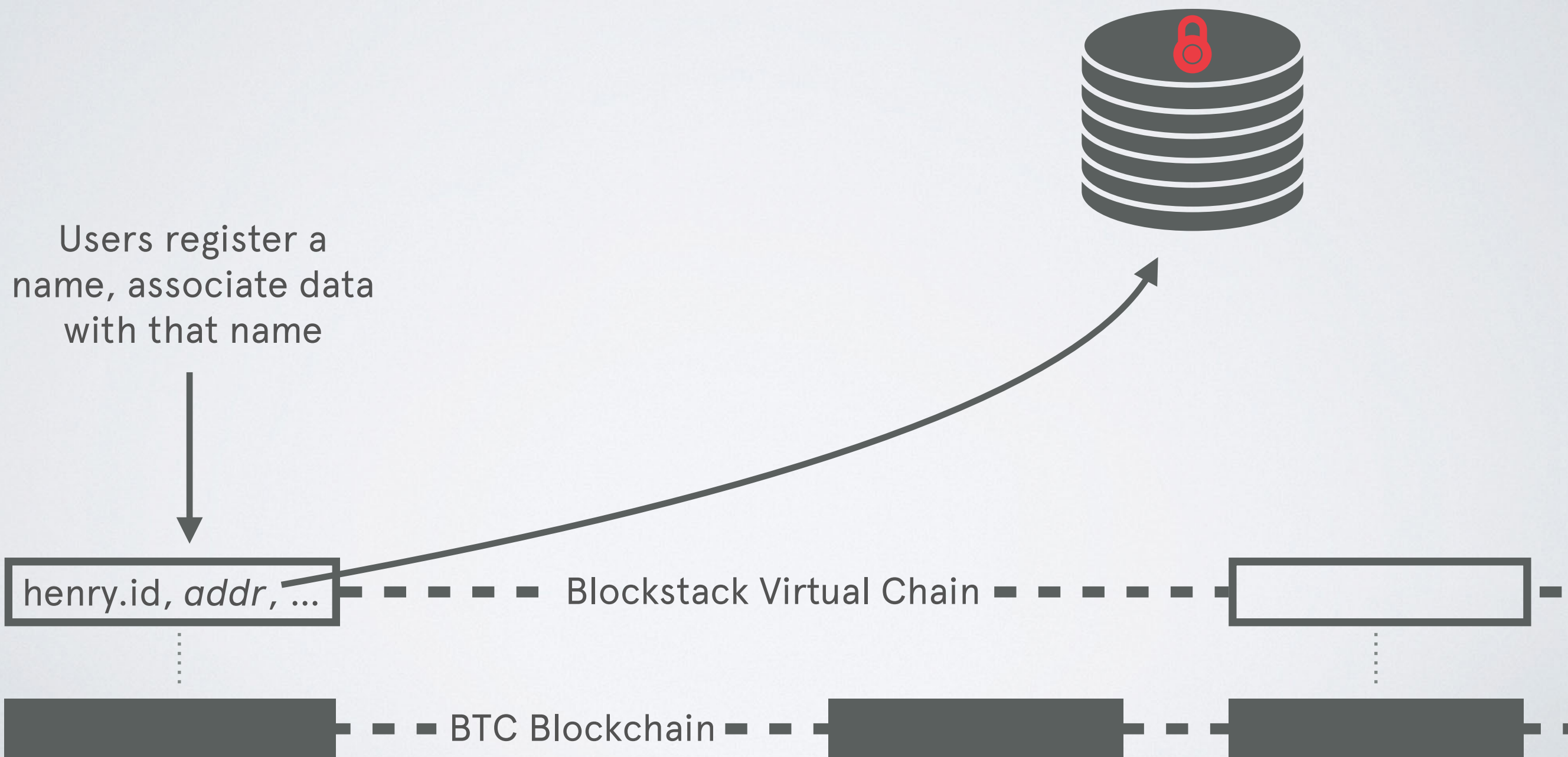


~~Old Implementation~~



New Implementation

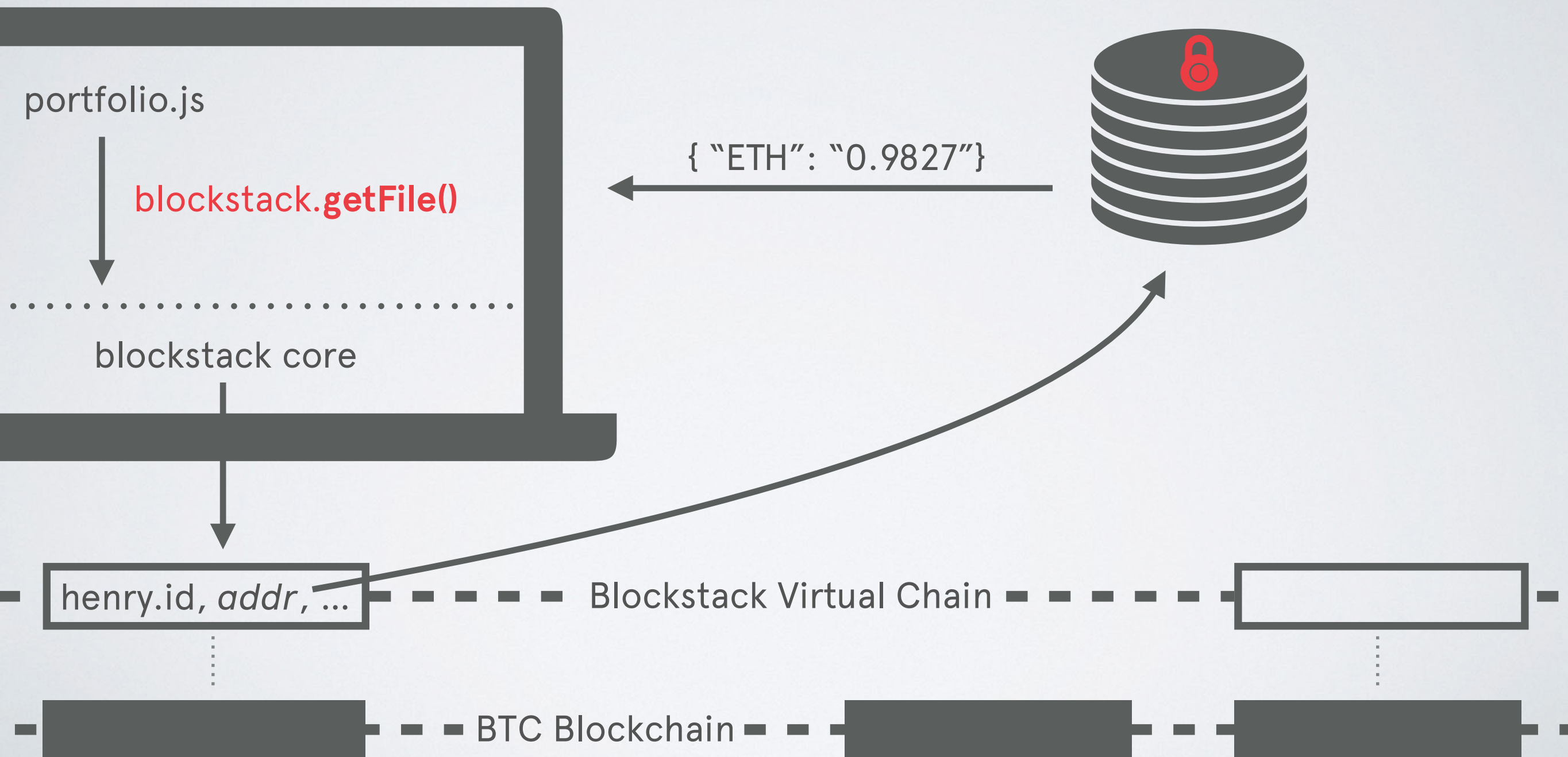
Storage of *my* choice



New Implementation

Client... *and* Server!

Storage of *my* choice

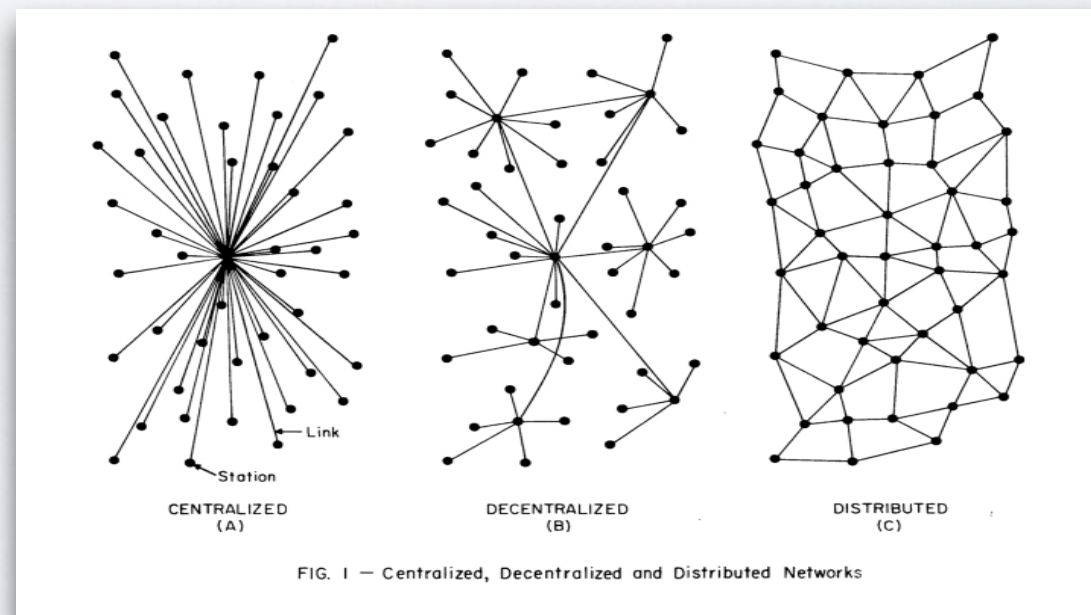


Results

- Complete
 - Authentication between app and Blockstack
 - Access of real-time pricing data
- In Progress
 - Reading and writing from storage
- Future
 - Historical data, graphs, visual polish

Conclusions

- XFolio manages exciting new cryptocurrencies in a decentralized way
- Its success is built atop Blockstack
- Blockstack and blockchains are disruptive



Acknowledgements

- **Partner:** Radia Soulmani
- **Advisor:** Professor Michael Freedman
- The Blockstack team
- My seminar peers