



Multy Core

3.5 blockchains in 2 Megabytes, how and why

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multy.io

Multy ideology

- True blockchain
- Open-Source
- Secure
- Fast and Easy



Multy architecture

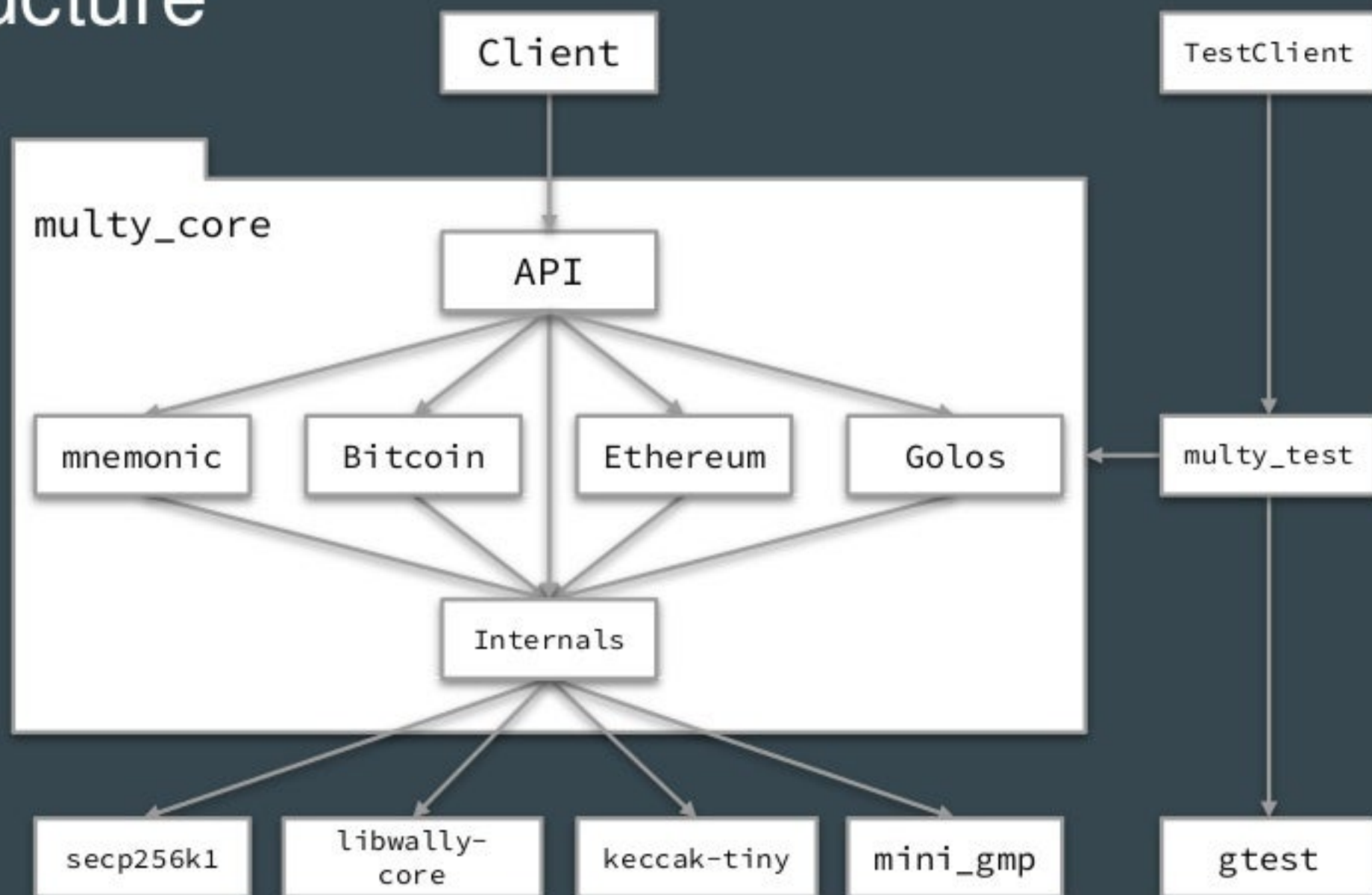




Overview

- C/C++11
- CMake
- Third-party libs
- Mnemonic & Seed
- Private/public keys
- Transactions

Structure



Stats



Files

LOC

Size

multy_core

150

17K

680Kb

multy_test

30

6K

2.8Mb

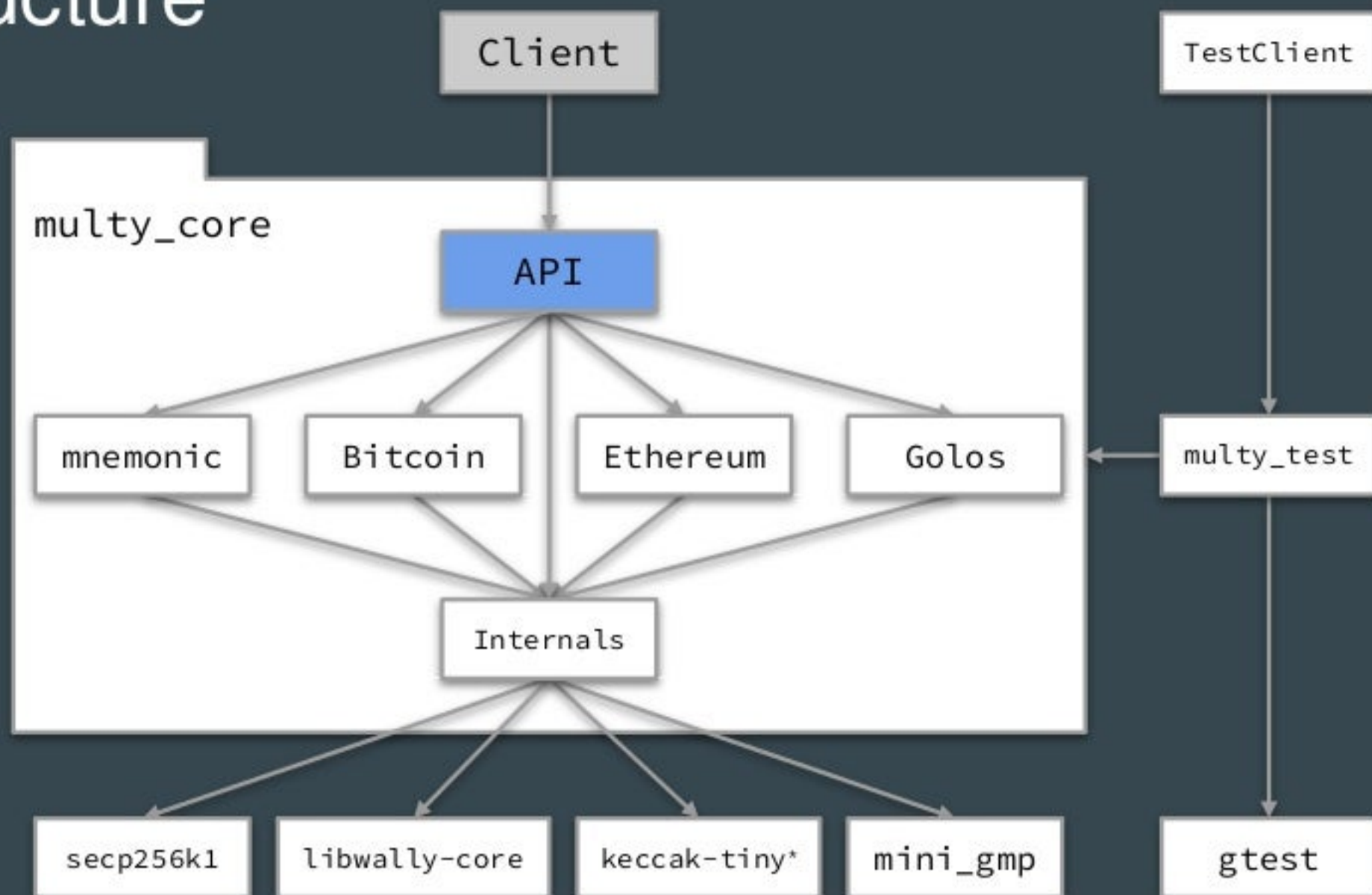
third-parties

294

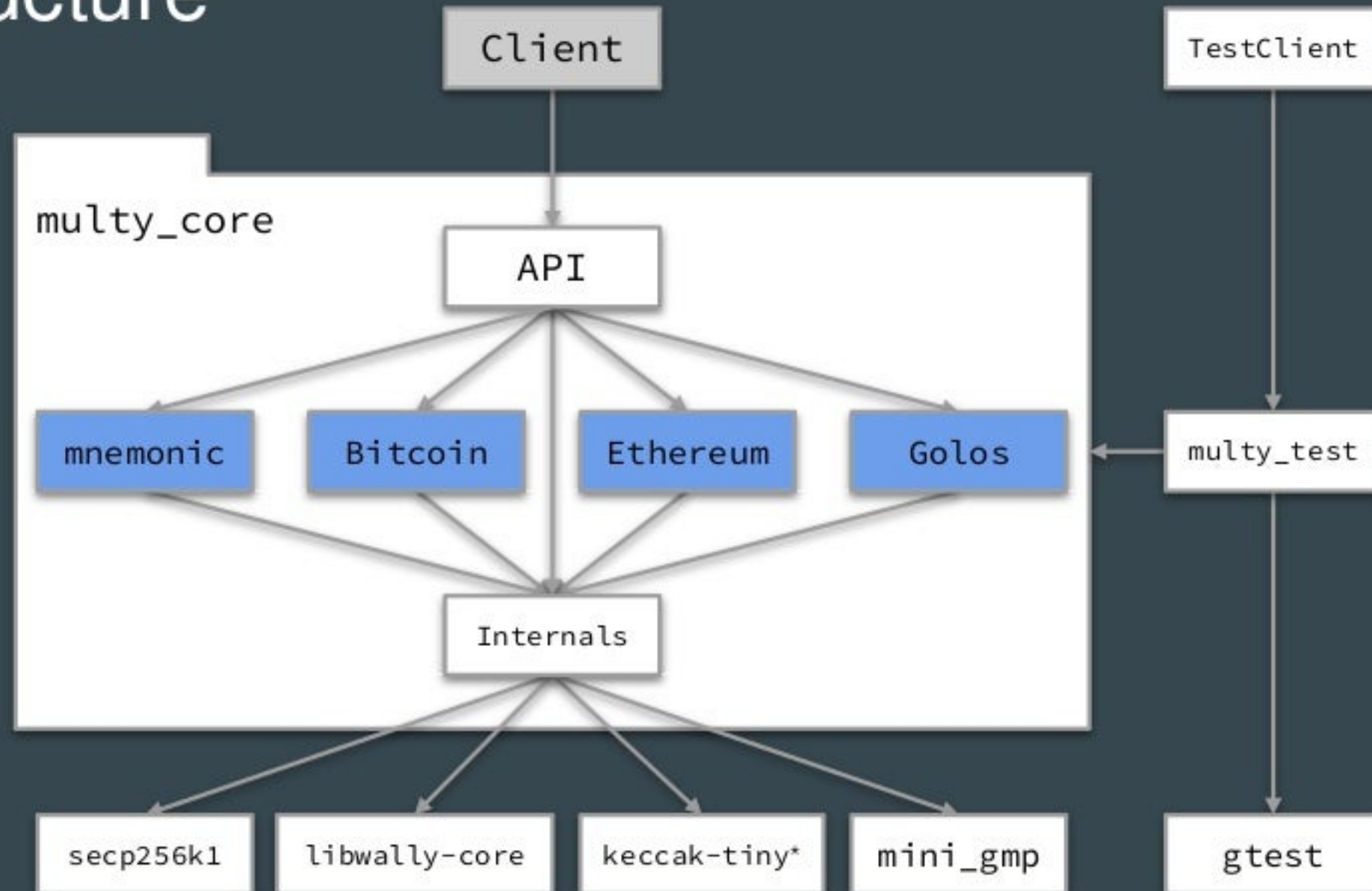
56K

720Kb

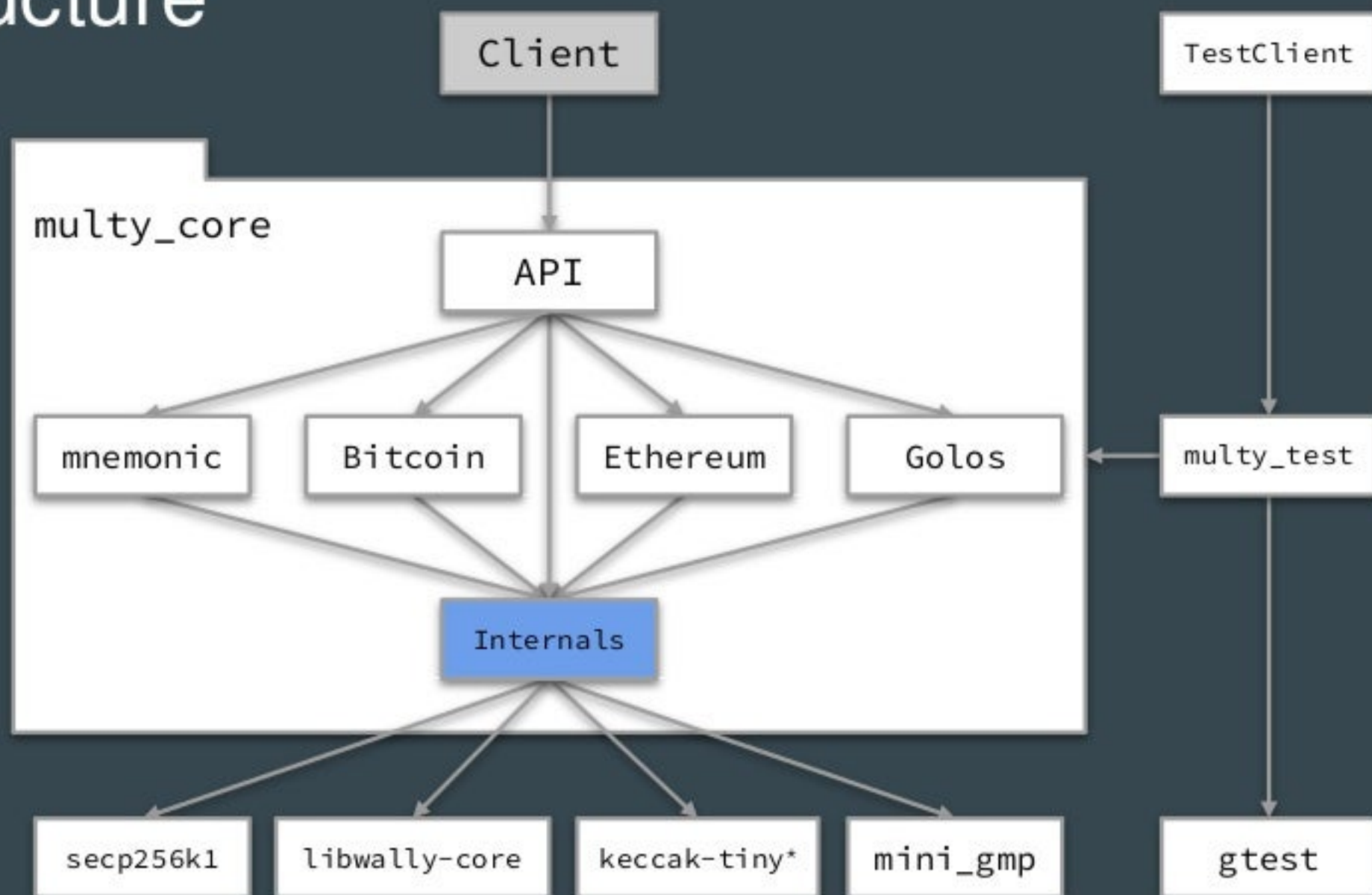
Structure



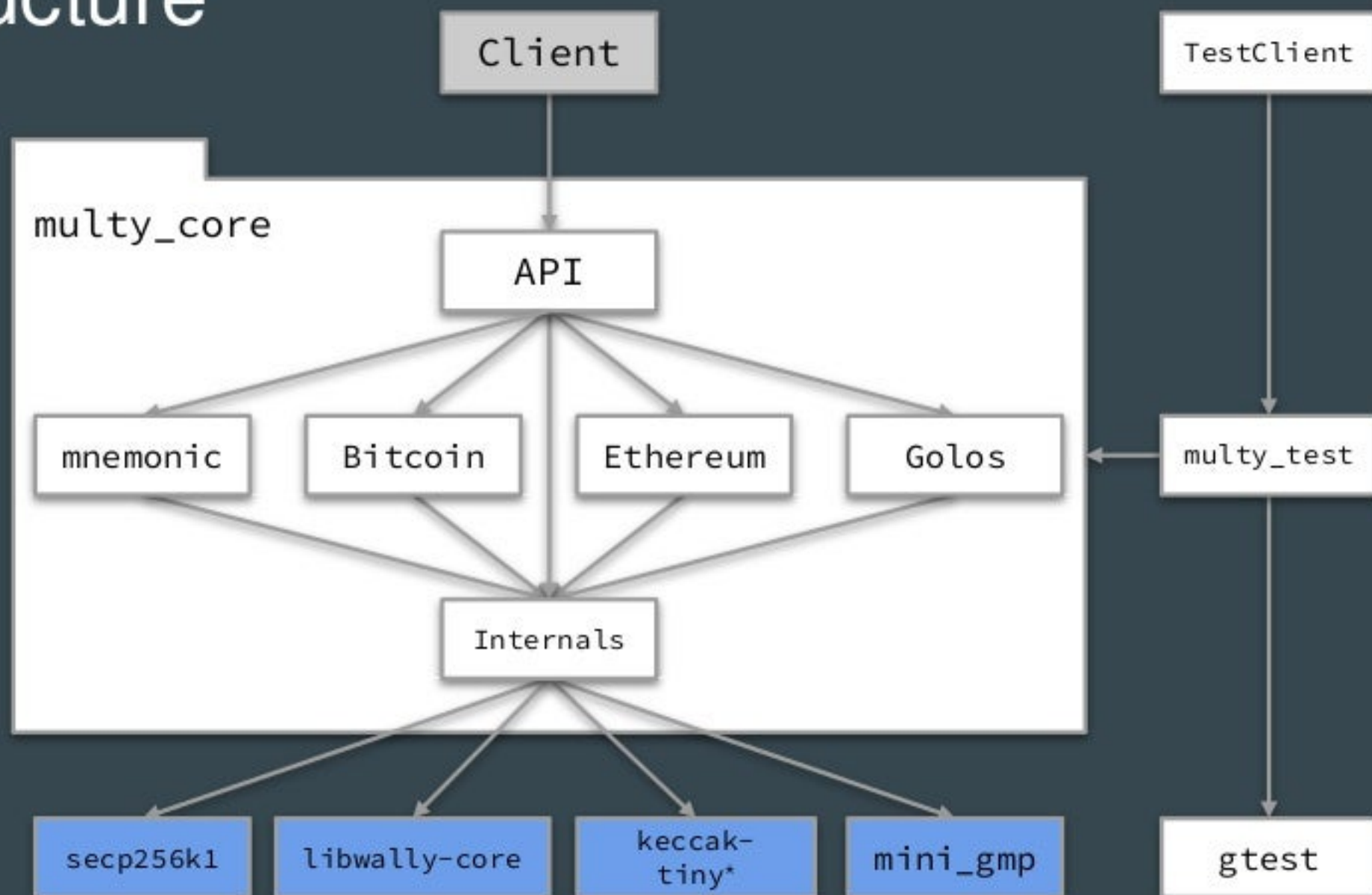
Structure



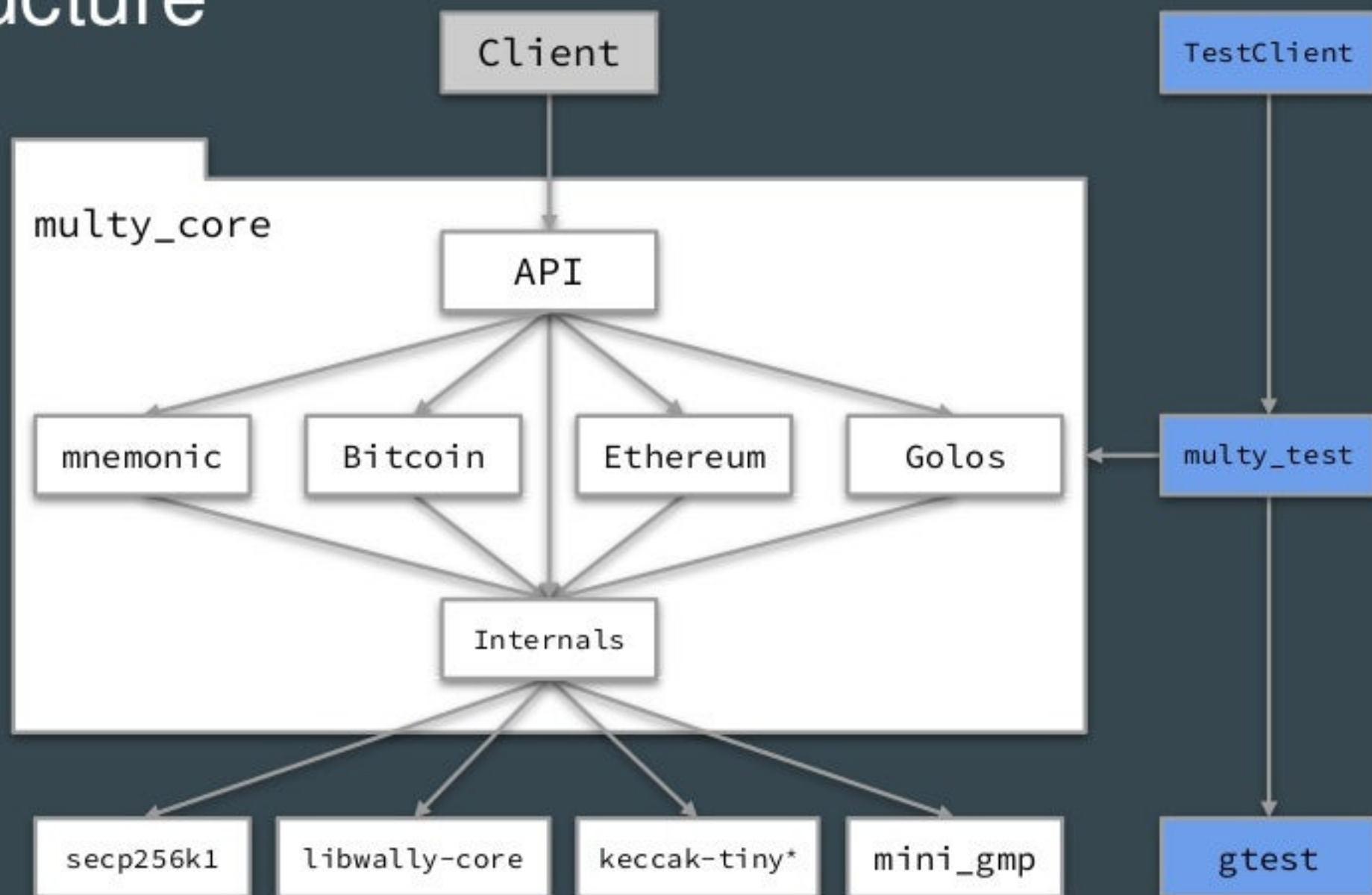
Structure



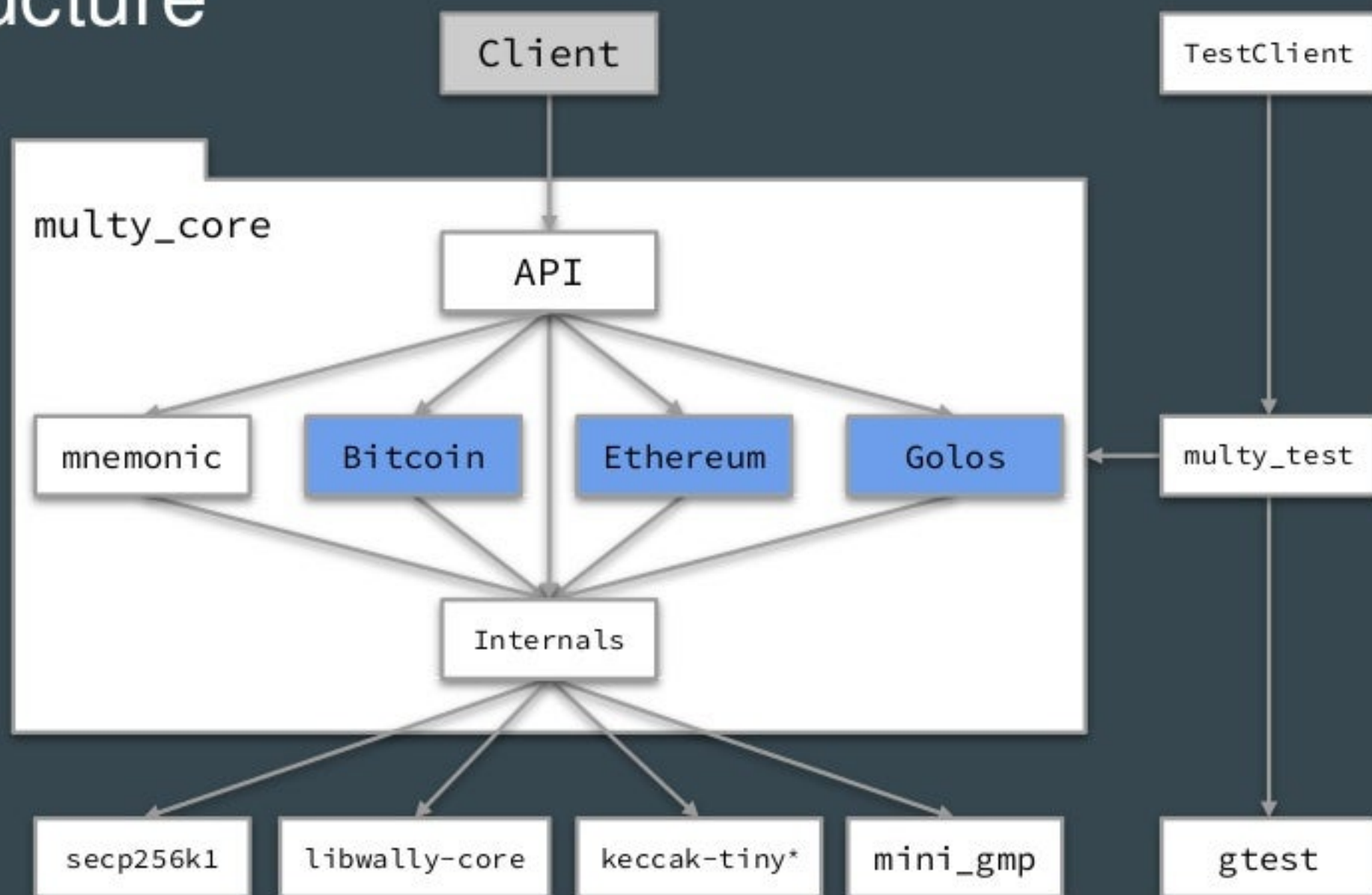
Structure



Structure



Structure

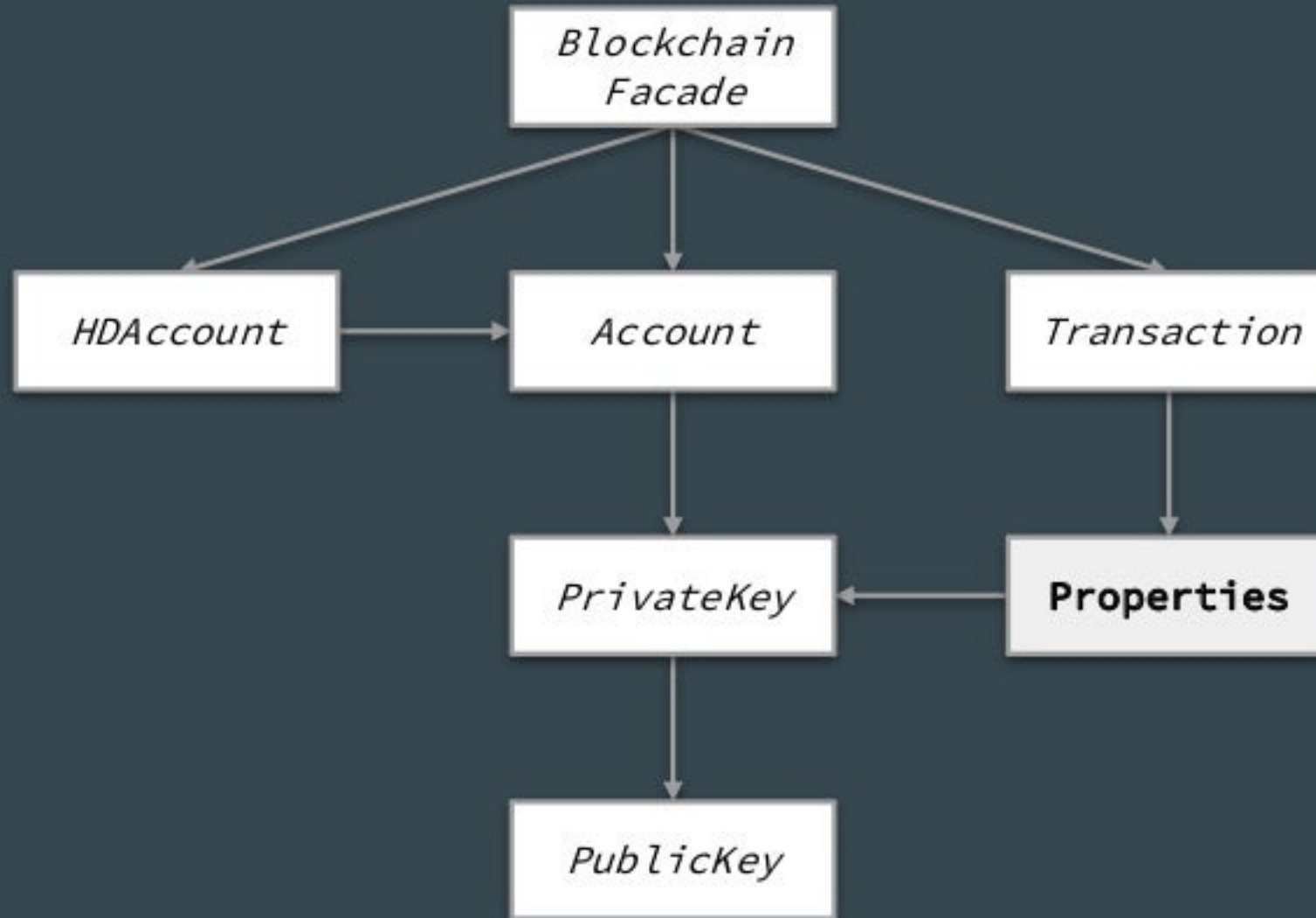


Blockchain

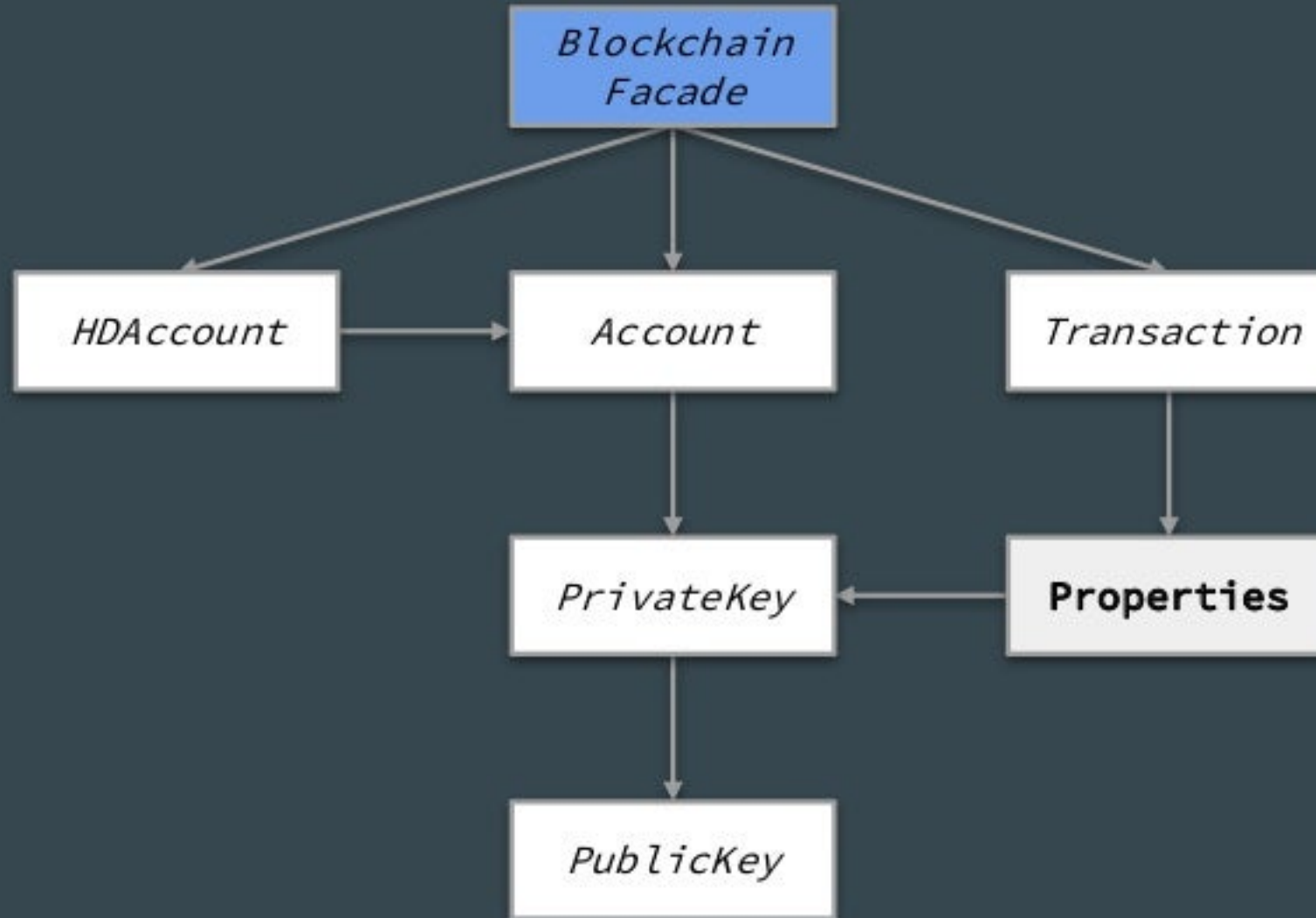


	Time	LOC
Bitcoin	7 W	1137
Ethereum	3 W	759
Golos	3 W	745

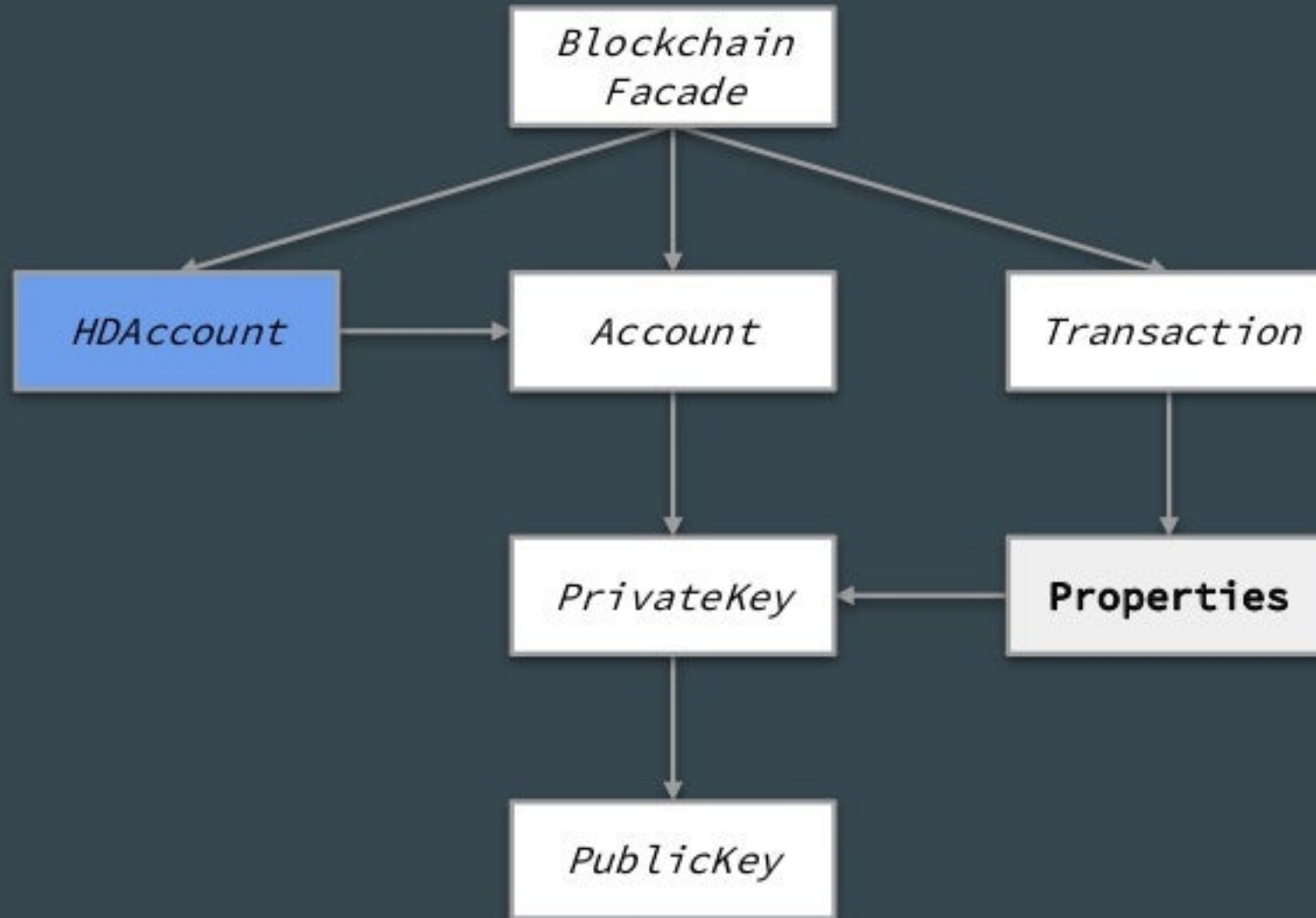
Blockchain



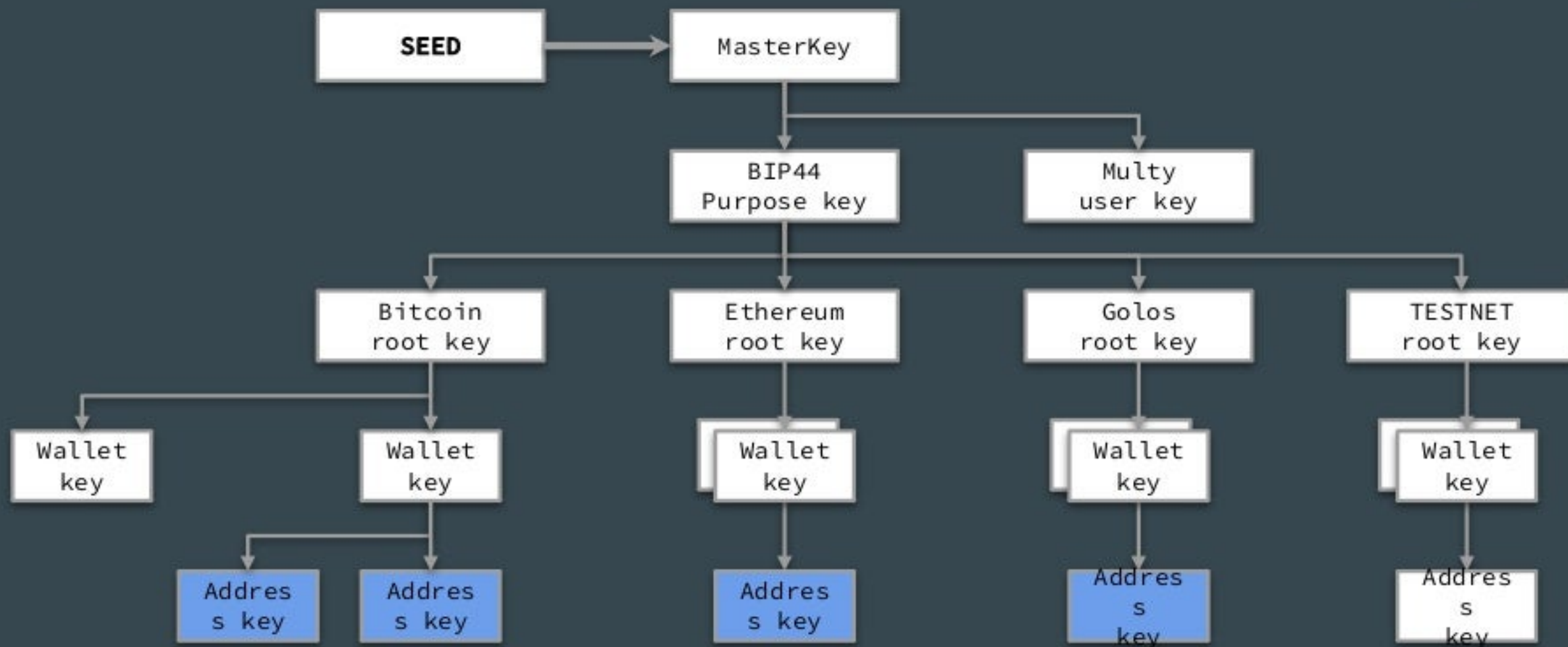
Blockchain



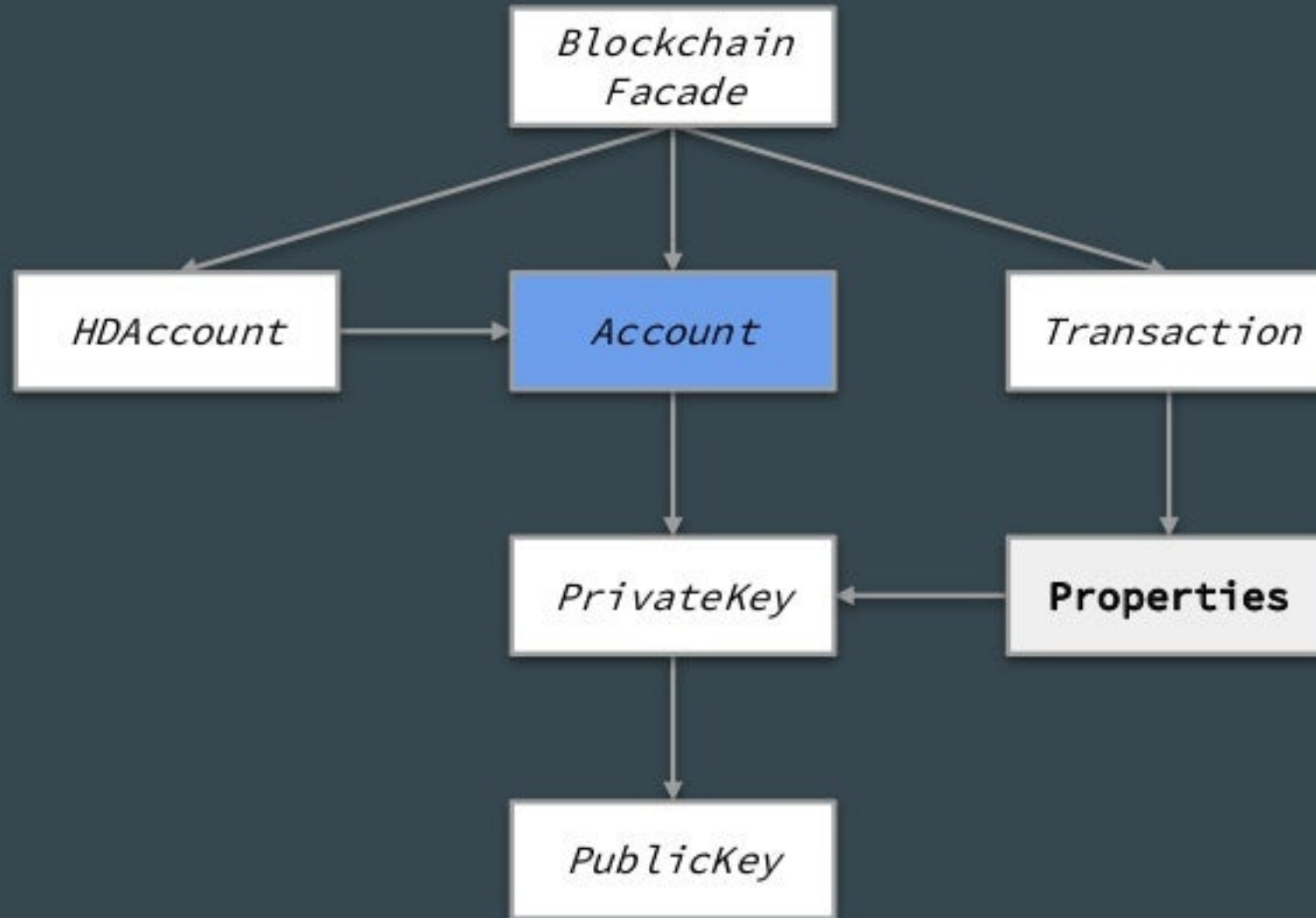
Blockchain



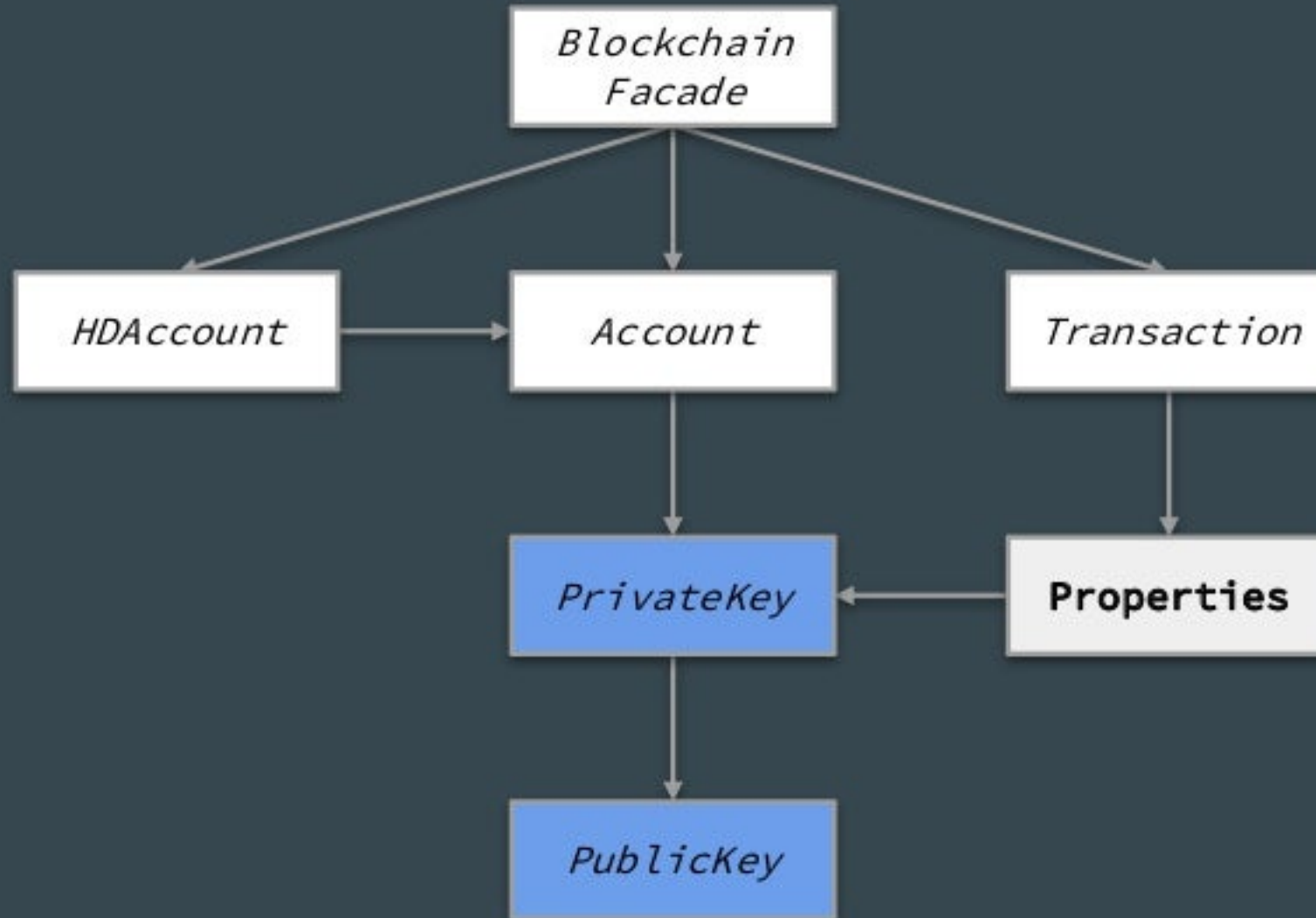
HD Keys (BIP44)



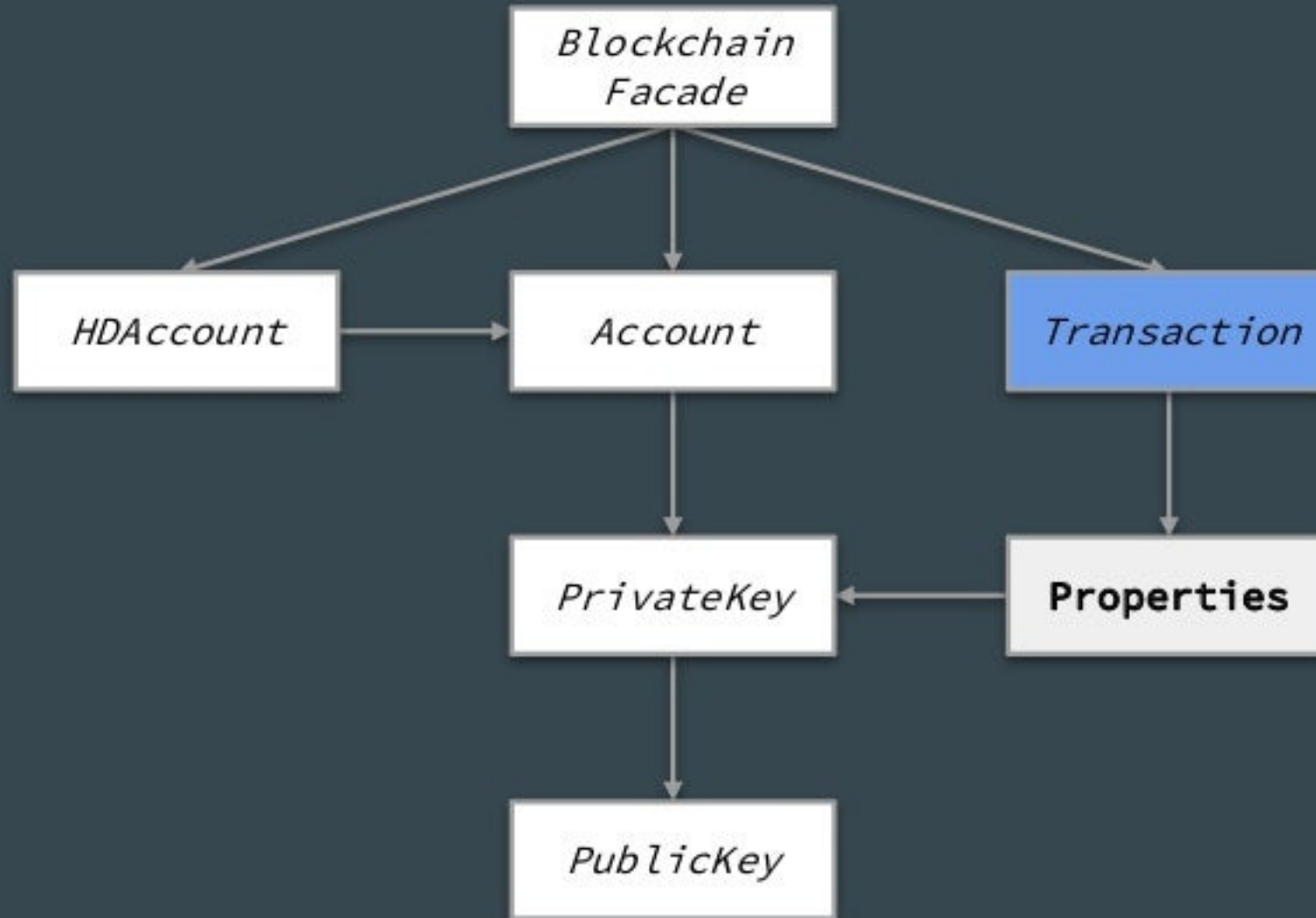
Blockchain



Blockchain



Blockchain

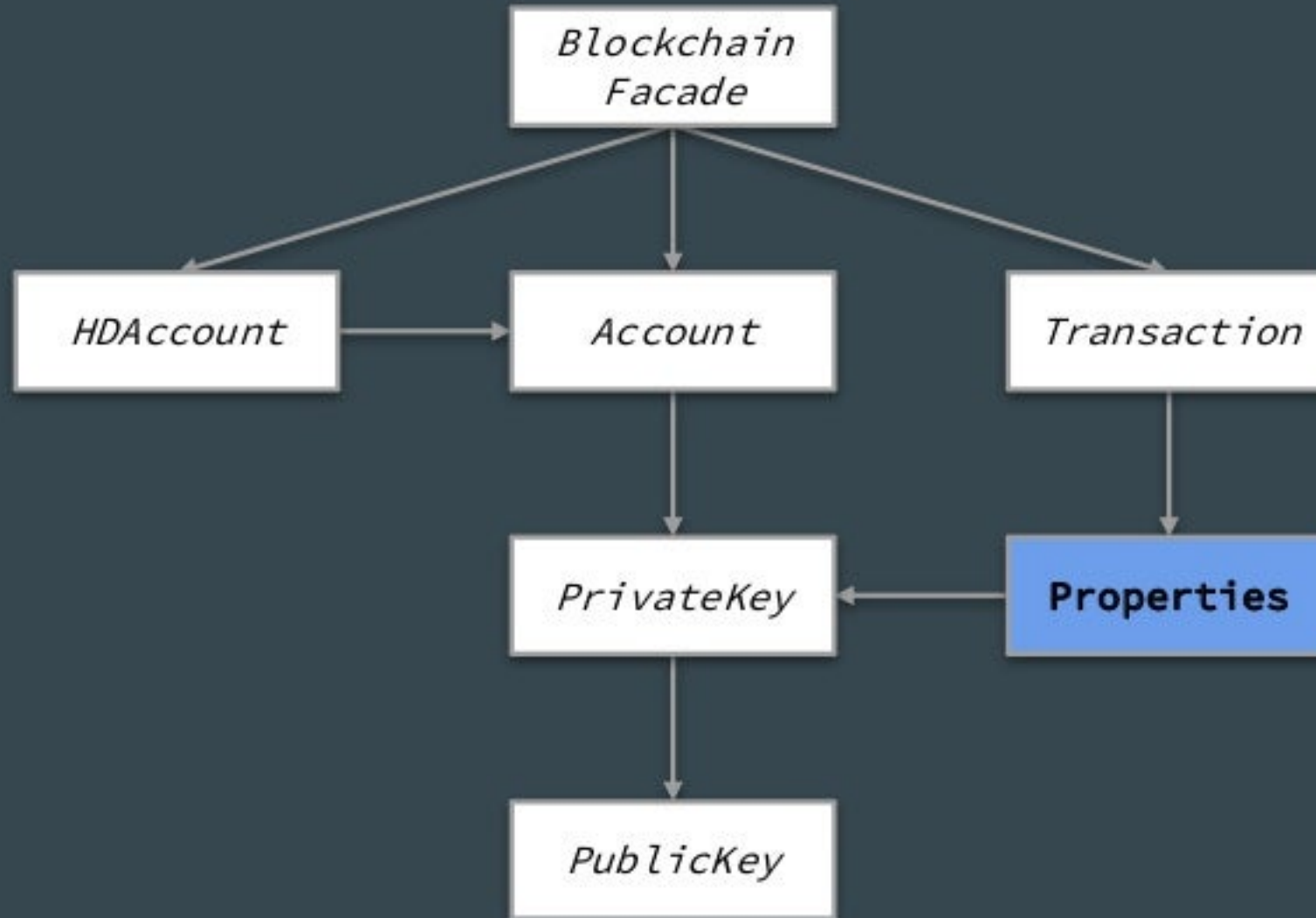




Transaction API

- Source
- Destination
- Fee
- TX attributes
- Serialize

Blockchain



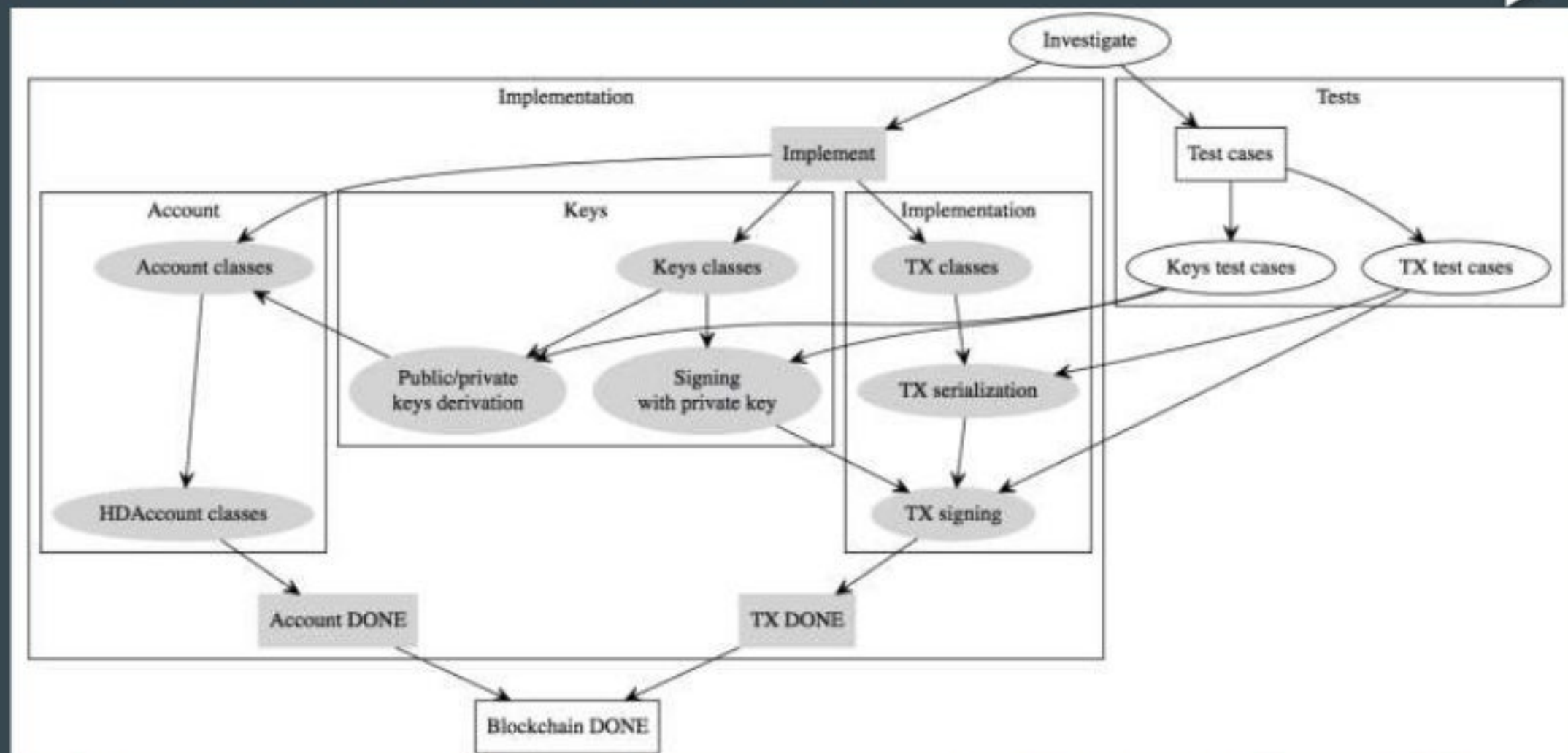


Properties

- Key-value based
- Read + Write API
- Type safety + value restrictions + validation
- 5 Types of values:
 - int32
 - string
 - BigInt
 - BinaryData
 - PrivateKey



How to add new blockchain



- Adding new protocol is easy as 1, 2, 3... Oh wait!



Future

- CI/CD
- More protocols
- More forks
- Proper wrappers for Swift (iOS) and Java (Android)
- Tokens (Ethereum, ...)
- ...



Links

- <http://multy.io>
- <https://github.com/Appscrunch>
- <https://github.com/Appscrunch/Multy-Core>
- <https://github.com/ElementsProject/libwally-core>
- <https://github.com/bitcoin-core/secp256k1>
- <https://github.com/coruus/keccak-tiny>
- <https://gmplib.org>
- <https://github.com/leetal/ios-cmake>
- <https://github.com/google/googletest>
- <https://github.com/bitcoin/bips/blob/master/bip-0039.mediawiki>
- <https://github.com/bitcoin/bips/blob/master/bip-0044.mediawiki>



⇐Android

Sign Up for testing

iOS⇒





Thank you!
Questions?

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multy.io