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https://bitcoin.org/en/bitcoin-core/



BITCOIN CORE: **Concrete Architecture**

A presentation by Sweet Home Ala-Bram-A











Bitcoin Core

YouTube

New Chat

GitHub







Sweet Home Alabrama Group 34

https://youtu.be/NwczrMjljUk

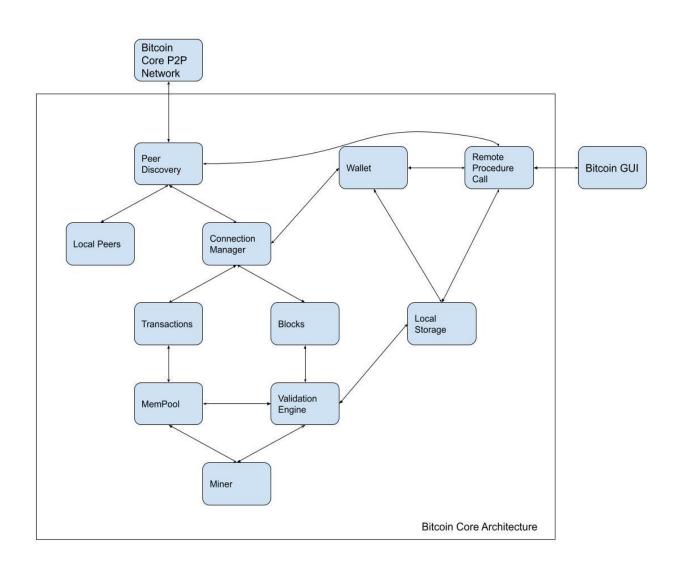


Jp LeBlanc (Team Leader)
Dallas Doherty (Presenter)
Ethan Mah (Presenter)
Ruairi O'Connor Clarke
Muhammad Ibrahim
Mayya Mounib



What was our conceptual architecture?





Conceptual **Architecture:**

Peer to Peer Network Four layers: Network **Transaction** Blockchain **Application**

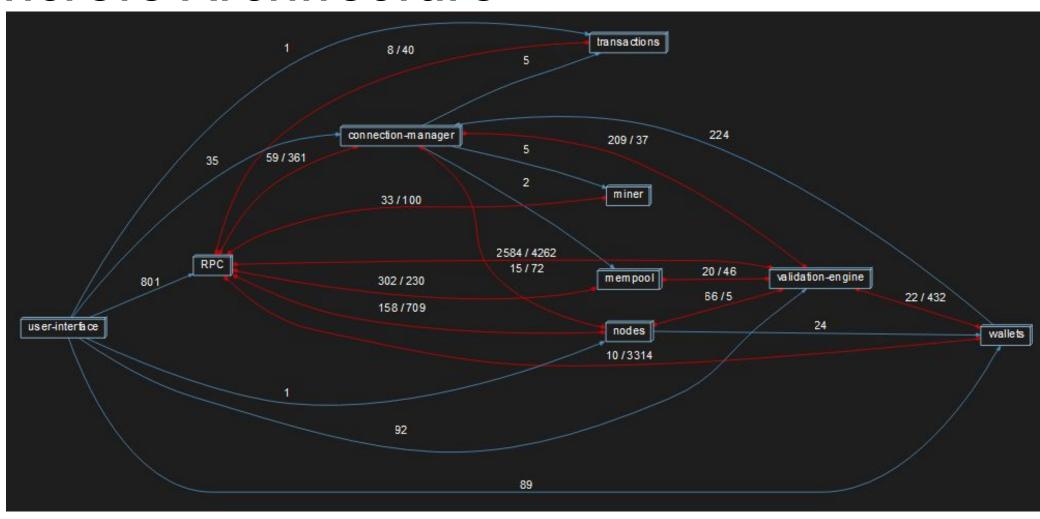




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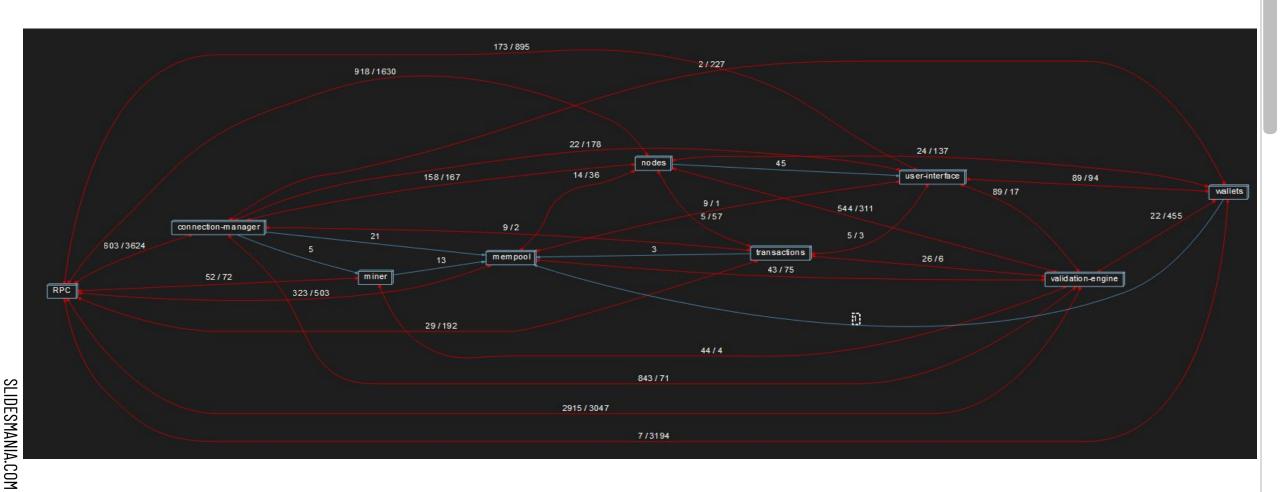
Concrete Architecture







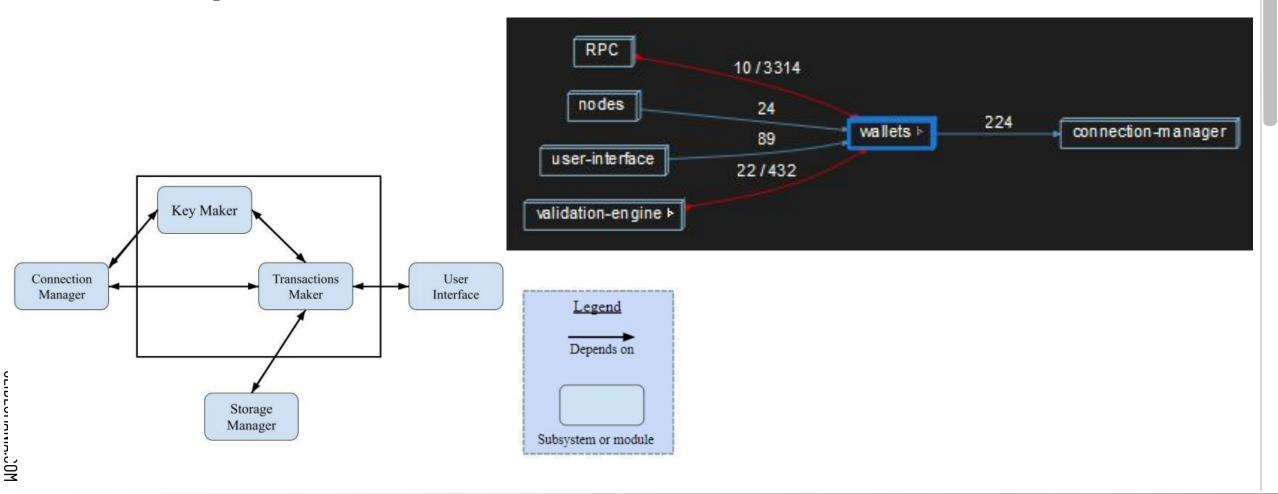
Concrete Architecture Alternative







Conceptual Vs Concrete: Wallet

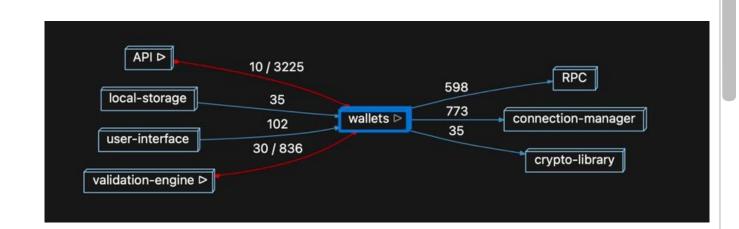






Wallet Reflexion Analysis:

- Similarities:
 - Connection-Manager
 - Crypto-Library
 - Local-Storage
- Discrepancies:
 - Validation-Engine
 - Dependencies on Wallet Subsystem









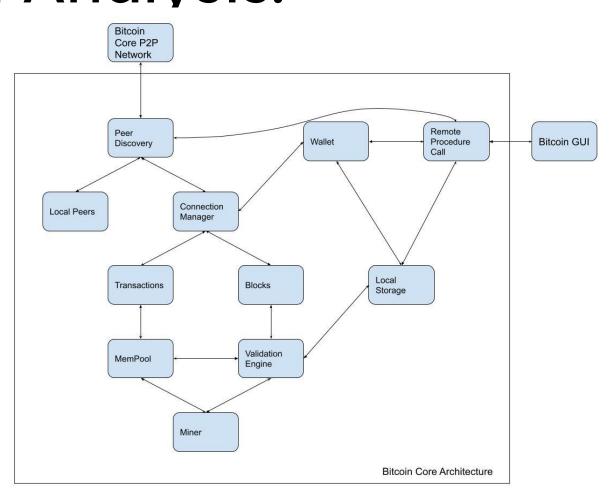




High Level Reflexion Analysis:

- Dependencies:
 - Miner/Mempool/Connection Manager
 - Validation-Engine and Miner

- Discrepancies:
 - Transactions and RPC Subsystem
 - Wallet Subsystem and Validation-Engine

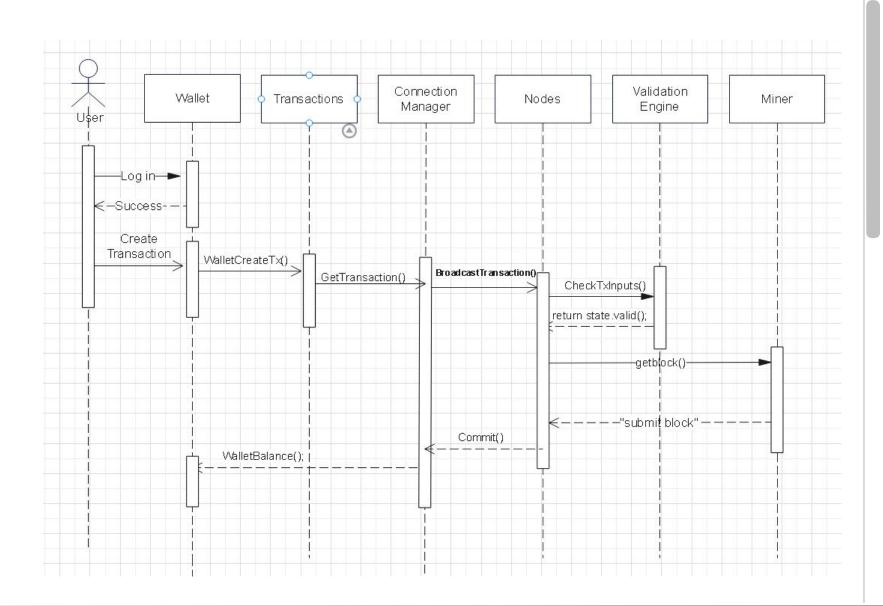








Sequence Diagram







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Team issues and effects of concurrency:

- Multi-Threaded architecture
 - Race Condition,
 Synchronization Issues
- Lack of Documentation
- Finicky software









Definitions from Oxford Languages · Learn more



der·i·va·tion

noun

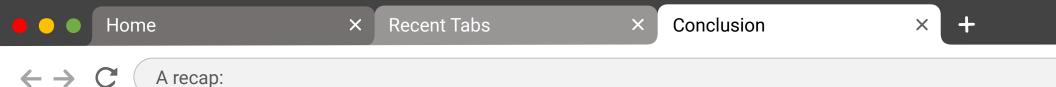
the obtaining or developing of something from a source or origin.
 "the derivation of scientific laws from observation"

Similar: deriving induction deduction deducing inferring inference

2. LINGUISTICS
in generative grammar, the set of stages that link the abstract underlying structure of an

Derivation Process and Lessons Learned

- Complex system
- Trial and error





8:

Conclusion:

- Peer to Peer Architecture Style
- The reflexion analysis of the wallet subsystem
- The reflexion analysis of our high-level architecture
- A breakdown of the sequence diagram