

Webchain

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PROBLEM

- Integrate Blockchain Technology into our own website.
- Design our website around Blockchain Functionality and give users access to easily audit transactions.

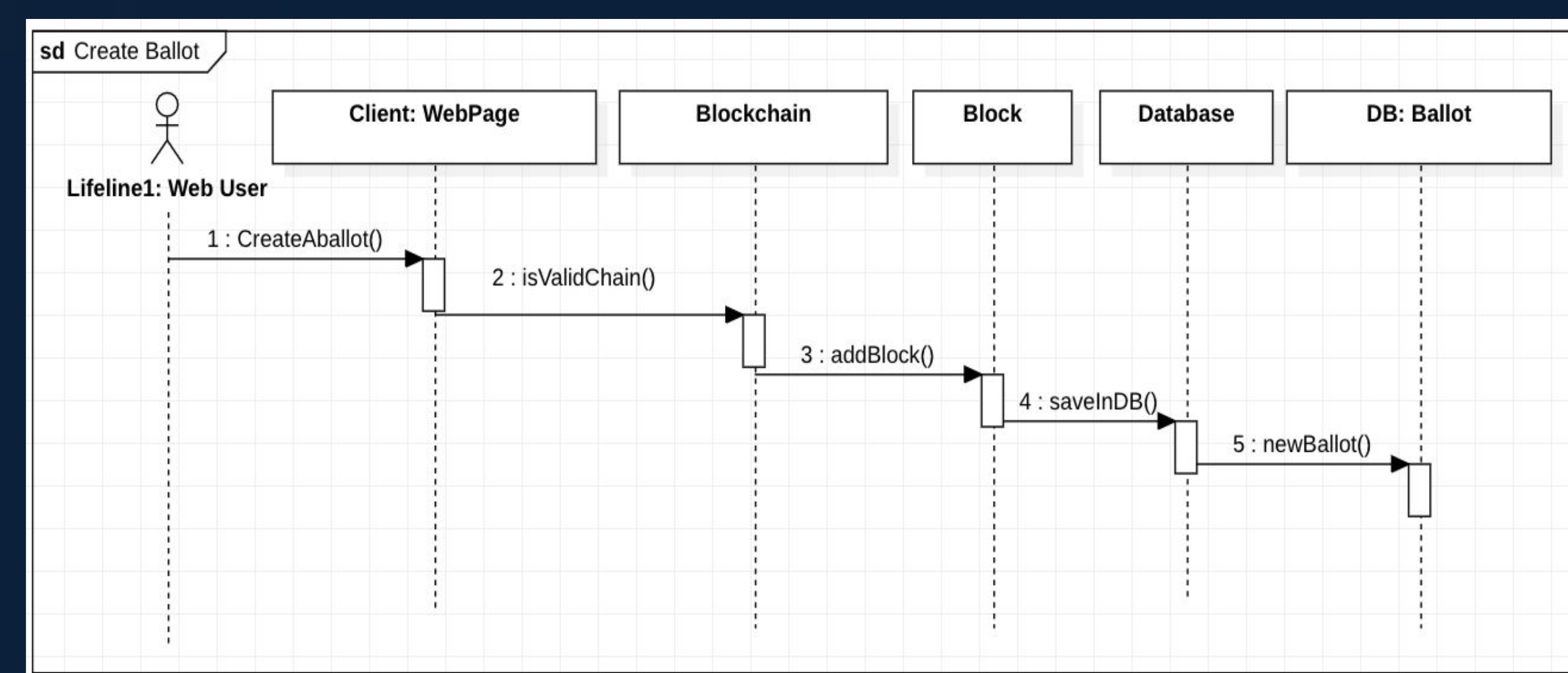
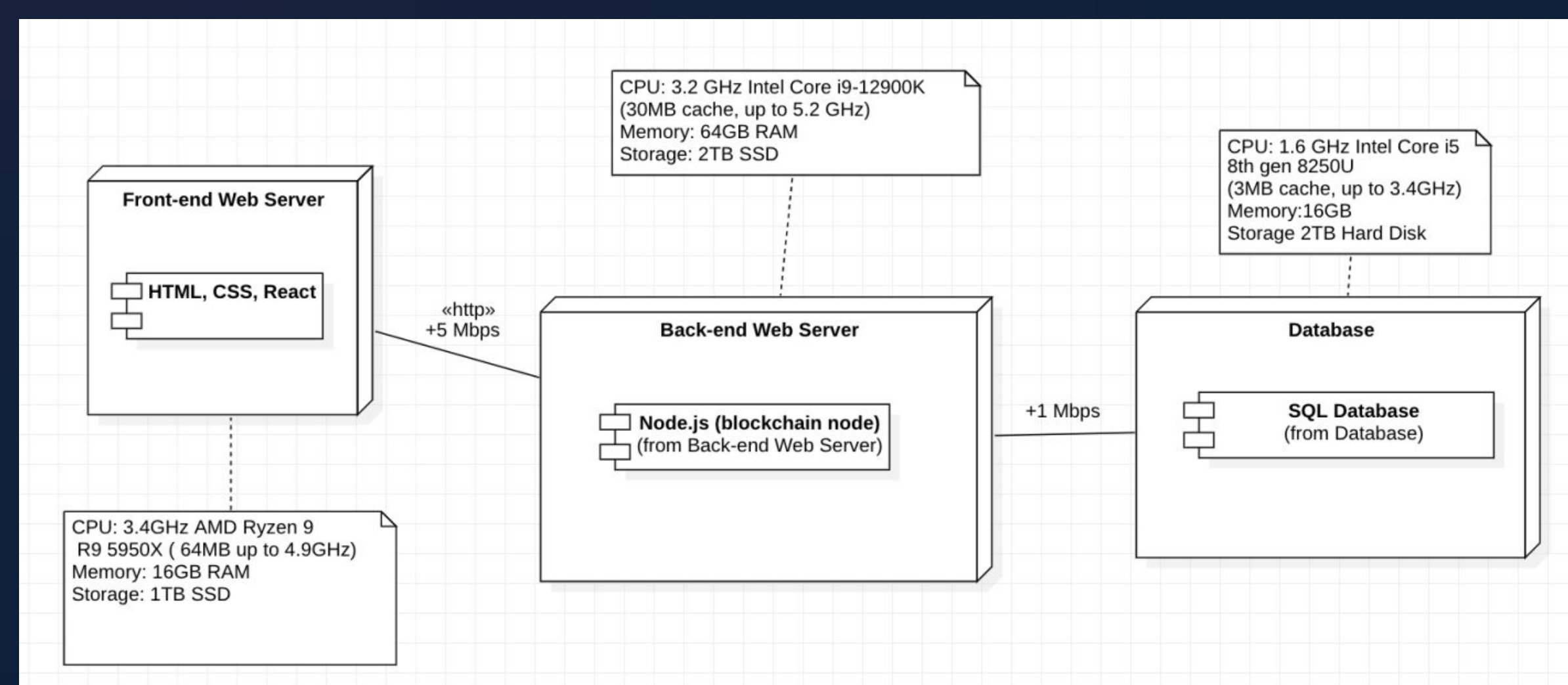
CURRENT SYSTEM

- Blockchain is a Linked List involving Block Objects.
- Each Block Object has an Index, Timestamp, Poll Name, IP Address, and Hash associated with it.
- Blockchain has a built in verification method to be called on each time a new block is added.
- A Genesis Block starts the Chain and each subsequent block is an actual action being recorded.

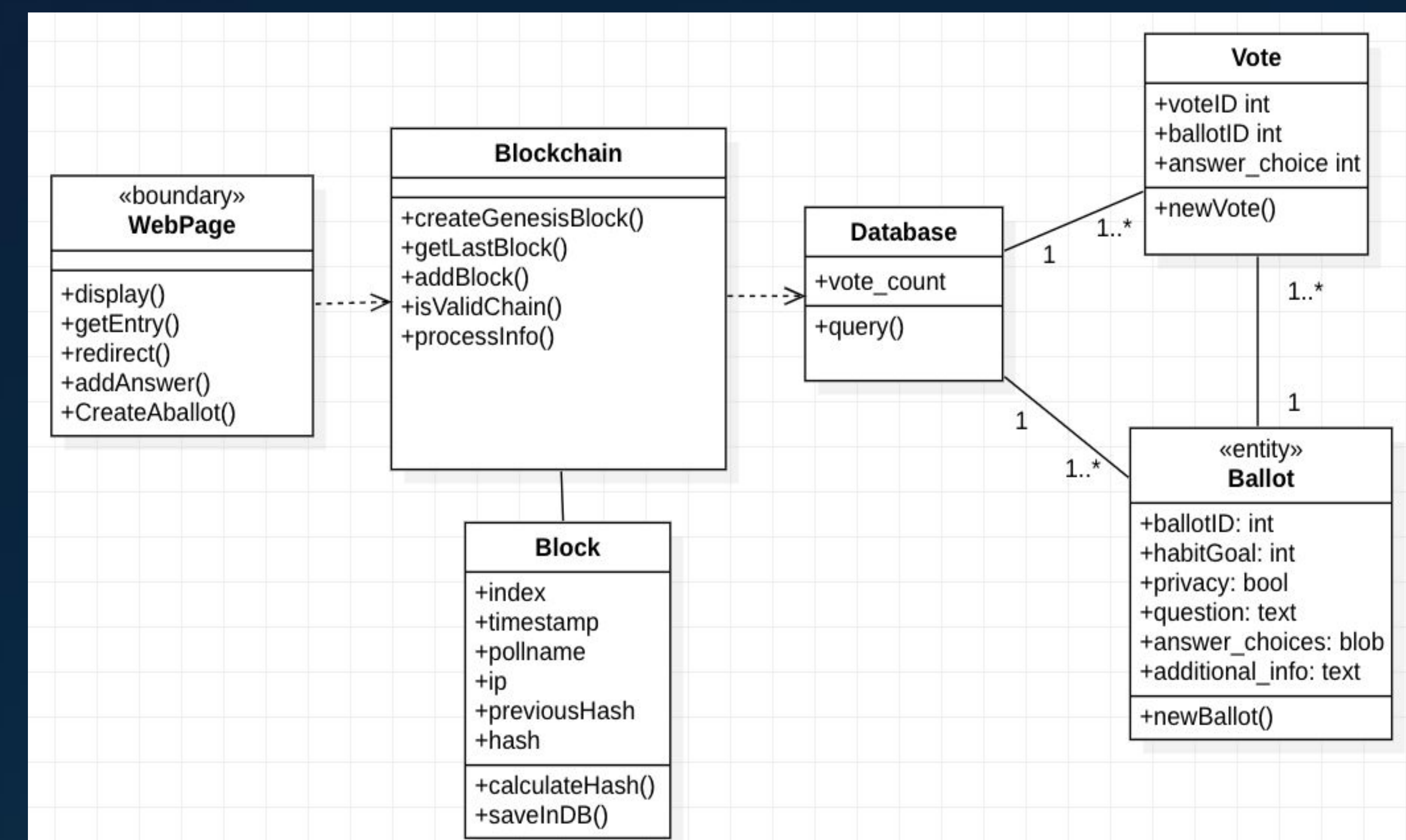
REQUIREMENTS

- Blocks store user actions in the chain that matter for voting for verification purposes, which then goes to a Database.
- Users can audit the Blockchain on their end in order to verify events when needed.
- Polls are stored and are linked with Blockchain, where creation and actual votes are blocks in the chain.

SYSTEM DESIGN



OBJECT DESIGN



SUMMARY

- Our team chose to create a voting website that uses Blockchain Technology.
- The Block and Blockchain were created and established.
- Our implementation is our vision as to how the site will function with the Blockchain, but still needs some work to be truly complete.

REFERENCES

- Liebkind, J. (2020, December 9). *How blockchain technology can prevent voter fraud*. Investopedia. Retrieved April 1, 2023, from <https://www.investopedia.com/news/how-blockchain-technology-can-prevent-voter-fraud/>

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