

TODO

MVP

- ☐ implement the OMAP for the user store
 - <https://francismurillo.github.io/2019-07-31-Understanding-Rust-Through-AVL-Trees/>
- ☐ have a simple client side impl, preferably on pc / cli
- ☐ Nice documentation for everything
- ☐ figure out how adding a user works (OMAP semantics)
- ☐ End 2 End encryption
 - Ask him what stuff I need

Post MVP

- ☐ multi-device support via support of proxy
 - inspired by how groovy had the provider system
 - to make sparta-ll into a provider based system, its fairly cheap to have a small embedded device to act as a proxy for each user its not super unfeasible
- ☐ client side implementation with sqlite?
- ☐ figure out how to get this building on fortanix sgx
 - If I dont reach this, could sell this as not feasible in such a short amount of time but looking forward to do it in the future.

Project Structure

Hermes

- proxy? or could be the name for the entire thing

Athens

- Client Cli
- Tauri mobile app

Sparta

- Sparta LL implementation

Questions for Kyle

1. Does sparta support users with multiple devices?
2. What sort of E2E encryption scheme can be added onto sparta?

Qucklinks

oram library:

- <https://github.com/facebook/oram?tab=readme-ov-file>
 - only secure inside of an enclave with memory encryption

enclave framework:

- <https://github.com/fortanix/rust-sgx>

intel-sgx?

- <https://github.com/intel/linux-sgx-driver>
- i dont have the hardware