WASM Observability

Get more info about the apps

Metrics, log and traces

Query layer

User

- Better understanding of the system and applications.
- Better troubleshooting
- Dashboards for performance and health

User

App → App system → url

User User User User User User — Access
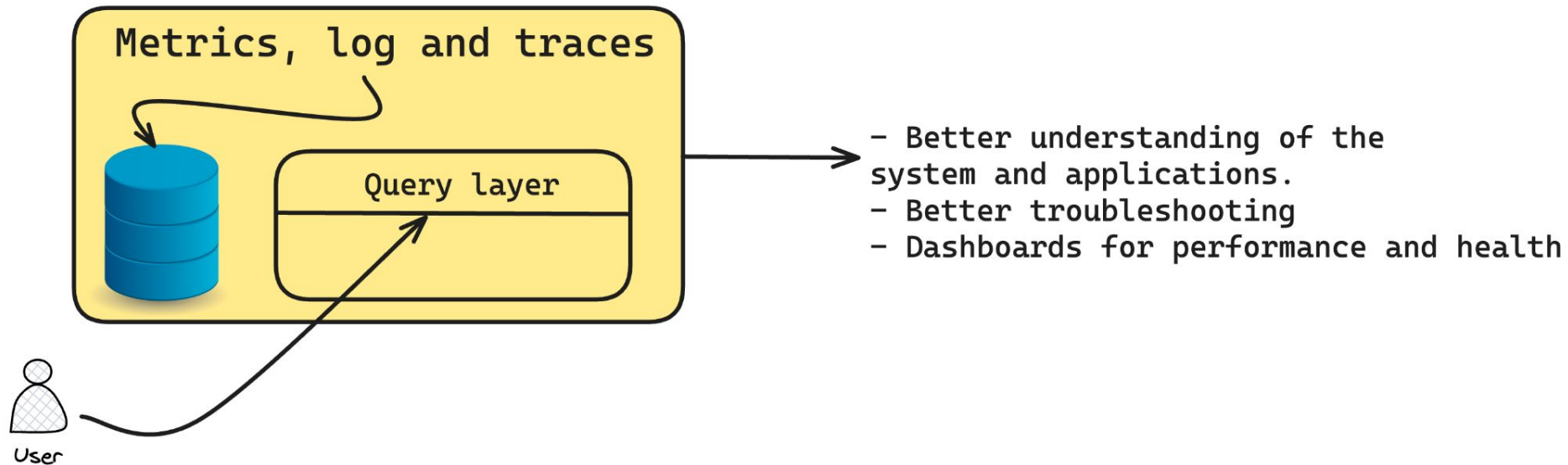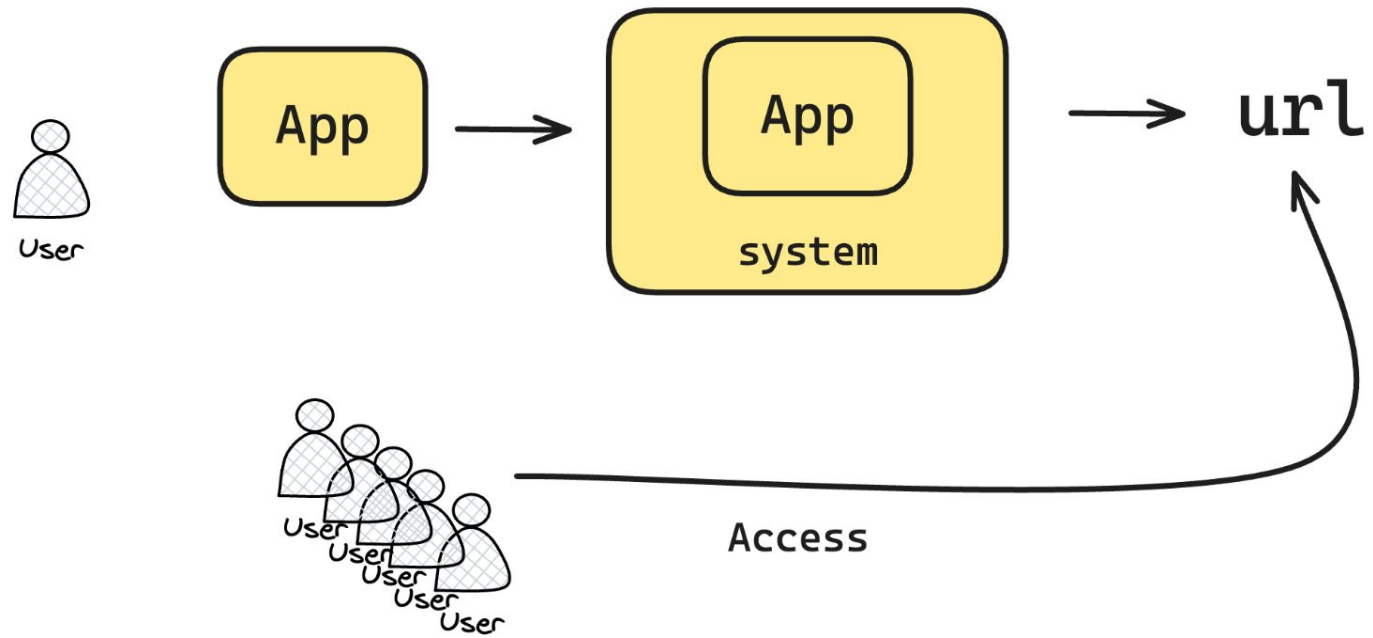
What failed?
When it failed?
Slowness?
5xx, 4xx?
DDoS?

Challenges in WASM Observability

WASM modules do not know about the host

WASM do not have access to the system

Timestamps for metrics, you need system clock

IPC calls

Inputs → WASI Logging → stdrr

Inputs → Level, Context, Message

Level → **Trace Debug Info Warn Error Critical**

Context → String

Message → String