



① Requirements / goals

Functional

- > 3 day charity event
- > Logged in using an app
- > Email or pay / success
- > Past donations visible

Non functional requirements

$3 * 10^6$ over 3 days

10^6 donations/day

10^6 RPS

10^8

100 RPS



① Availability

data redundancy
async replicas

② Latency static content CDN

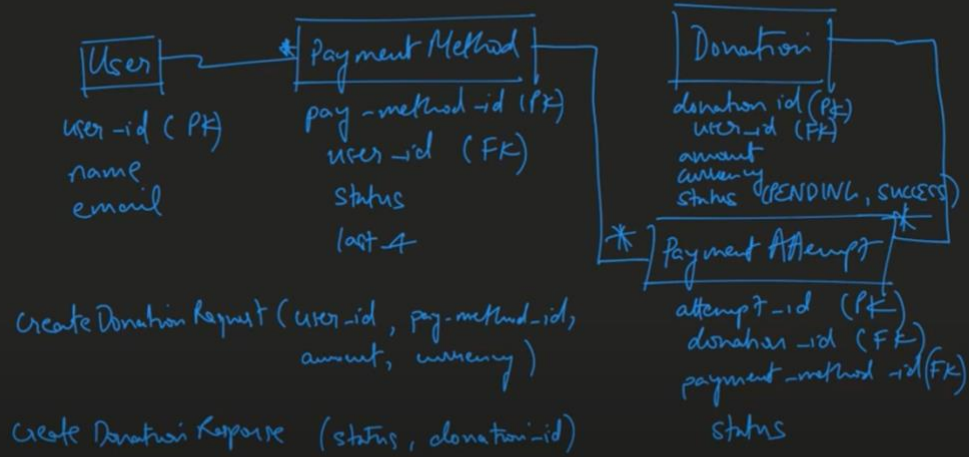
③ Throughput 100 RPS

④ Consistency eventual Read after write

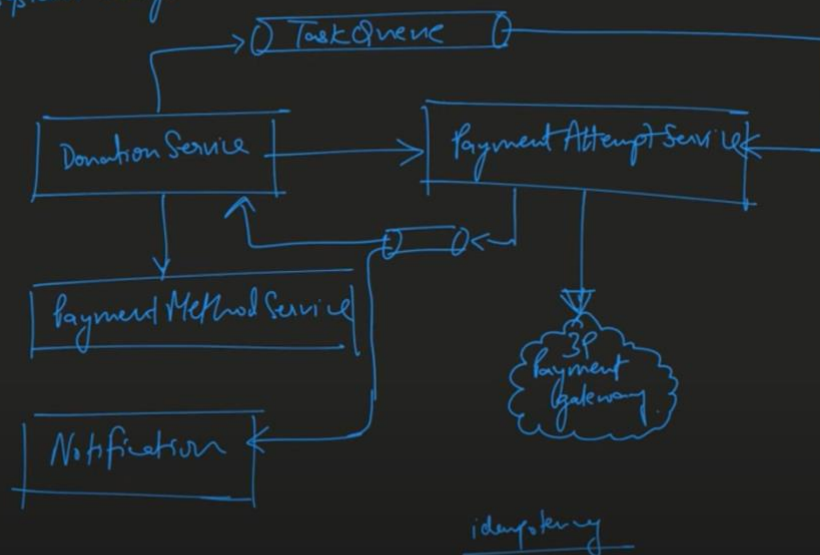




② Data modeling & APIs



③ System design





④ Failure scenarios

- idempotency } application
- consistency }

- replicas } system
- replication lag }

⑤ Scaling

