Agenda

1) Use cases
2) Entity
3) Types of entity
4) Load balancer
5) Scaling vs Sharding system
6) Consistent Hashing

Limits / Assumed Numbers

Add URL (2000)

→ Add Shortening
→ Get Shortening
→ Get Add details

Add → → add Shortening (URL, uid)
→ get Shortening (URL, uid)

→ Add Shortening
→ Get Add details

Add Shortening

DNS → Domain Name System
Your order on .com IP Address

DNS Server

→ Server Ip.com
→ Register this domain

Domain Shortener → → Entity
→ Time Stamp

Entity | Timestamp

Entity

Schema → ICANN → not for profit
→ economical

Journey of Mail
for
Domain Name → IP address

Ip.com → DNS → IP address

Root → Com → Google → Gmail

Root → Com → Google → Gmail

Order.com → Order.com/id → Order

Domain Name → IP address

Order.com → Order.com/id → Order

→ Domain Name → IP address
→ Time Stamp
→ Entity

Ip.com → Ip.com/id → Order

→ Ip.com → IP address

→ Ip.com → IP address

→ Ip.com → IP address