

+ How does you system ensure that 2 URL's never map to the same shortened URL?

Ans: - We can use hash function to Actual URL
as Input and convert it into new
Shortned URL

How will you ensure the system has very low latency!

Ans'

Ansi

by Scaling Application horizontally depending upon incoming traffic and using consistent trashing technique in load balances in order to distribute load to application serve and as well as for data sharding.

what will happen if the machine Storing the URL mapping dies?

We need to have a hot copy sync with actual DB ces back up and to avoid Data Center parlure spread DB across different regions



How do your make sure your system is Consisten?
This is to say, 9F I have shortened a URL given
the Shortened URL, my system should always
return the original URL or maller whom I could
your system?

Ans: I will be using hash function to

= generale shortened URL of actual URL

so the consistency should be maintained

by reducing the factor of hash vollision

How do you make sure that your service never goes donn? (No outage), you have to assure that your make sure that your make sure those incidents your service is uneffected by those incidents (unless un of your machines die at one - lets assure that never happens)

Ans: I will make sure have backup to reduce single point of failure by using horizontal scaling.

the instance which are working. In Case if instance open will add more system to shere Load and keep the Hungs go on.