

Assumptions:

Max characters for the short URL is 7 to 8.

I considered different approaches B10(10 7), B26, B52, B62 and MD5 hashing, due to size limitation I debated Base62 VS MD5

- MD5 give very long string and 7 to 8 characters will run into many hash collisions.
- B62 (62^7) we get more than 3 Trillion combination

Run:

there are 2 endpoints

localhost:9000/api/v1/encode POST
 Input JSON
 { "originalUrl": "http://www.google.com/1245/5897"}
 Output JSON