

We are building a URL Shortener app.

1. API

1. Create a short URL

request : `www.google.com`

response: key: "abc", url : "`http://www.localhost:8080/abc`", originalURL:

"`www.google.com`", ts: TS

2. Fetch the Shorten URL:

Request : URL : `http://www.localhost:8080/abc`

response : key: "abc", originalURL:"`www.google.com`"

Task for API 1:

on getting the request:

1. Create a key and append the key to the local app URL
2. Insert the entire object into Redis and DB

Task for API 2:

On getting the request:

1. Check if key exists in the redis, return the output from the redis itself
2. If No, Check if Key exists in the DB,
3. If yes, create the output object and save the same object with the key in redis and return the output.
4. If No, Throw the Exception: "URLNotFoundException"

Page 1 URL Shortener

① ✓ Redis to save & fetch our URL's

→ ① Create a shortURL

② ② Fetch the URL on the basis of short keywords

② We would add DB to persist our changes.

✓ Extend the two APIs to fetch & read from DB.

③ We will add Spring security to allow only registered users to create shortURL.

Phase 2:

Add Spring security and only allow logged in user to create the URL and anyone can fetch the URL.

Only admin users should be allowed to fetch all the URLs.