Prerequisite

* Java 17 or higher
* Maven 3.\*
* Docker (optional)

To start the application process, open the project and compile using the Maven command, in command console opened by user (windows Powershell or Linux Bash)

The java version should be 17, after compiled open the target directory and digit in console the following command

Java -jar shortUrl-0.0.1-SNAPSHOT.jar and the service server will start ready to work

If you have Docker installed in your machine you can create a Docker image and the start it as container, by console go to project root and digit the following command

docker build -t shorturl:1.0 . , Docker will generate the image and store in the local registry.

To Start the service from image container, digit the following command

docker run --detach --name urlshort -p 8085:8085 --rm shorturl:1.0, a container will be created and started .

mvn clean package

In order to use the URL shortener service , open postman and for short an URL , and insert in post the following URL

<http://localhost:8085/urlshortner/encode>

in the body use the following json

{

    "decodedUrl": "URL TO ENCODE"

}

The service will return the following json

{

    "encodedUrl": "URL ENCODED",

    "protocol": "PROT"

}

A screenshot of a computer

Description automatically generated

In onrder to decode a encoded URL , we need to use the http Get method in the following way

http://localhost:8085/urlshortner/decode? urlEncoded=urltodecode

if the url was previously encoded will return the following json

{

    "decodedUrl": "URL DECODED",

    "protocol": "PROT"

}

If the url in input is not an encoded url, the system just returns 404 code to the client.

A screenshot of a computer

Description automatically generated