

# Infobip

## Java url shortner service

Url shortner service shortens the long url into 5 digit unique alphanumeric string, it uses 62 alphanumeric literals to generate unique code, which gives  $62^5$  number of unique values. This shortened url can be used to redirect back to original long url. For using this service, user will have to register itself with account id. He will get generated password after successful registration.

This project uses basic authentication of spring, so user will have to pass his account id and password to use the rest calls. After registration user can register any number of long urls to generate shortened url's. User can also get his usage statistics by passing account id.

Url shortener service project is running on http port 8080. The base url is

<http://localhost:8080>

## Building project

- Go to the project directory
- Run the command

```
mvn clean install
```

## Run project

```
java -jar target/infobip-0.0.1-SNAPSHOT.jar
```

## Rest calls

Creating account:

method **type** : post

http://localhost:8080/account

Demo **type**:

```
curl -X POST \  
  http://localhost:8080/account \  
  -H 'cache-control: no-cache' \  
  -H 'content-type: application/json' \  
  -H 'postman-token: 5a49da0a-8fe1-bd52-a1d7-625574f993bd'  
  \  
  -d '{  
    "accountId": "username"  
  }'
```

Register url:

After the account is created you can register the url to be shortened.

Method **type** : post

http://localhost:8080/register

Demo type:

```
curl -X POST \
  http://localhost:8080/register \
  -H 'authorization: Basic cGF2YW46aDNyWGxNVGw=' \
  -H 'cache-control: no-cache' \
  -H 'content-type: application/json' \
  -H 'postman-token: c2201ac6-dd18-0988-d293-e2816e7ff320' \
  -d '{
    "url": "http://www.facebook.com",
    "redirectType" : 308
  }'
```

Result :

Shortened url : localhost:8080/vxte0I

You can use this shortened url to hit the original website with authorization credentials. This url will redirect you to original long url.

Redirect url :

localhost:8080/vxte0I

Demo:

```
curl -X GET \
  http://localhost:8080/vxte0I \
```

```
-H 'authorization: Basic cGF2YW46aDNyWGxNVGw=' \
-H 'cache-control: no-cache' \
-H 'postman-token: 9f74373c-cced-7aea-4365-9a989add8662'
,
```

You can get statistics of the user too, how many time he has used shortened url.

User statistics:

```
http://localhost:8080/statistic/username
```

Demo:

```
curl -X GET \
  http://localhost:8080/statistic/username \
  -H 'authorization: Basic cGF2YW46akZKTGQwTXo=' \
  -H 'cache-control: no-cache' \
  -H 'content-type: application/json' \
  -H 'postman-token: 357b5645-7aa0-c4c4-5847-f31f5d2cd581'
,
```

Result:

```
{
  "http://www.google.com": 1,
  "http://www.facebook.com": 1
}
```