

## **Backend Technical Test Atmatech**

### **Task**

Create a web service to shorten the web url. The web service can also receive the short url generated by the web service and can be reversed to the original url. After completing the task, push the code to your Github repository and send us the link.

### **Requirements**

- Programming language: Go
  - Use hashmap for database (in memory)
  - Use the programming language basic HTTP server to create the web service •
- Short URL cannot be duplicated for multiple long urls

### **Example**

- Example for shorten url

#### **Request:**

```
curl -d '{"url": "https://google.com"}' http://shorten-url-service/short-url
```

#### **Response:**

```
{"url": "https://google.com", "short_url": "http://shorten-url-service/short/aBCsa"}
```

- Example to get original url

#### **Request:**

```
curl -d '{"short_url": "http://shorten-url-service/short/aBCsa"}' http://shorten-url-service/long-url
```

#### **Response:**

```
{"url": "http://google.com", "short_url": "http://shorten-url-service/short/aBCsa"}
```

**Scoring:**

- Focus on core function
- We love high quality code
- Do your best and happy coding!