

FastAPI encryptng service

I. AUTHENTICATION

After service is running, you are free to open page <http://localhost:8000/docs> to use smart web UI for API:

FastAPI 0.1.0 OAS3
/openapi.json

default ^

POST /token Login ^

GET /encode/ Encode ^

GET /decode/ Decode ^

Schemas ^

Body_login_token_post >

HTTPValidationError >

Token >

ValidationError >

First of all you must be authorized throug /token path with user «test1» (password «test1»):

POST /token Login ^

Parameters Cancel Reset

No parameters

Request body required application/x-www-form-urlencoded ^

grant_type
string
pattern: password

☐ Send empty value

username * required
string

password * required
string

scope
string

☐ Send empty value

client_id
string

☐ Send empty value

client_secret
string

☐ Send empty value

Execute

After pressing «Execute» button you shoul see response from server in «Responses» area at block «200»:

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/token' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/x-www-form-urlencoded' \
  -d 'username=test1&password=test1'
```

Request URL

http://127.0.0.1:8000/token

Server response

Code

Details

200

Response body

```
{
  "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJ0ZXN0MSIsImV4cCI6MTYzMTQ3MDc1M30.26C0-mkhNBtAlcRrChnfEk3Um8EIsGac3VM7xbv0t0U",
  "token_type": "Bearer"
}
```

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Response headers

```
content-length: 165
content-type: application/json
date: Sun, 12 Sep 2021 17:49:11 GMT
server: uvicorn
```

Field named «access_token» contain your special token, which used to identify you on server side. After that you are free to use /encode and /decode paths.

II. ENCODE

Next block, named «/encode» encodes given string using XOR cipher. Expand field, and enter some text:

GET

/encode/ Encode

Parameters

Cancel

Name	Description
source string (query)	<input type="text" value="Some valuable text"/>

Execute

After pressing «Execute» you shall see encrypted response in block below:

GET

/encode/ Encode

Parameters

Cancel

Name	Description
source string (query)	<input type="text" value="Some valuable text"/>

Execute

Clear

Responses

Curl

```
curl -X 'GET' \
'http://127.0.0.1:8000/encode/?source=Some%20valuable%20text' \
-H 'accept: application/json'
```

Request URL

```
http://127.0.0.1:8000/encode/?source=Some%20valuable%20text
```

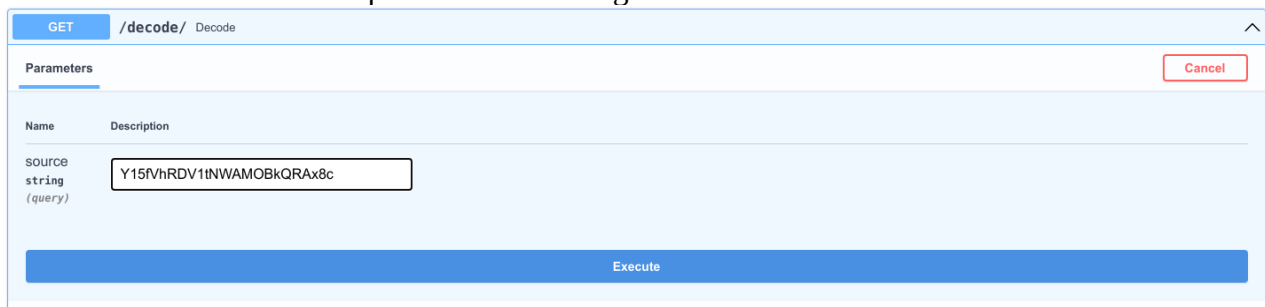
Server response

Code	Details
200	<div><div>Response body</div><div><pre>"Y15FVhRDV1tNWAM0BKQRAx8c"</pre></div><div><div>Download</div></div></div> <div><div>Response headers</div><div><pre>content-length: 26 content-type: application/json date: Sun, 12 Sep 2021 17:56:41 GMT server: uvicorn</pre></div></div>

That is your encrypted string.

III. DECODE

To check proper work of decoding, let's copy result from previous paragraph. Expand next block named «/decode» and paste encoded string into field:



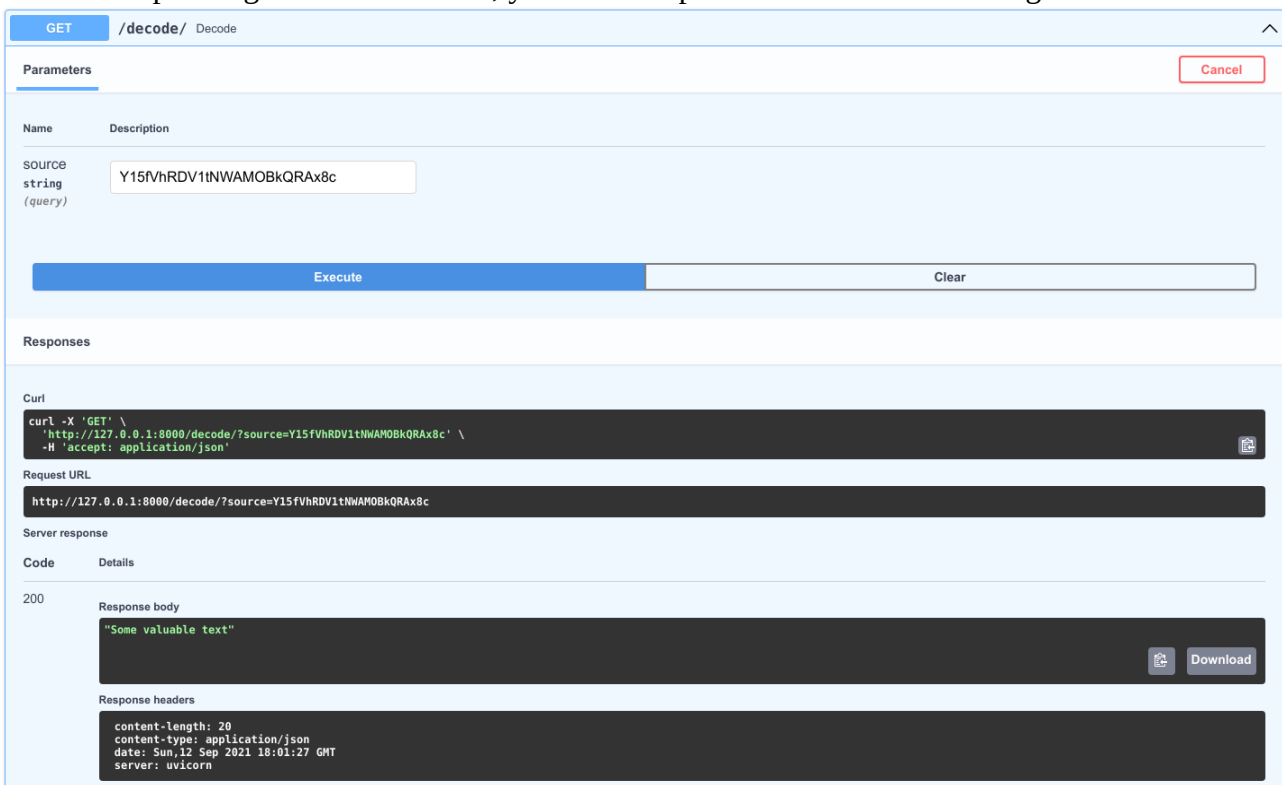
GET /decode/ Decode

Parameters Cancel

Name	Description
SOURCE string (query)	<input type="text" value="Y15fVhRDV1tNWAMOBkQRAx8c"/>

Execute

After pressing «Execute» button, you'll see response with our source string:



GET /decode/ Decode

Parameters Cancel

Name	Description
SOURCE string (query)	<input type="text" value="Y15fVhRDV1tNWAMOBkQRAx8c"/>

Execute Clear

Responses

Curl

```
curl -X 'GET' \
  http://127.0.0.1:8000/decode/?source=Y15fVhRDV1tNWAMOBkQRAx8c' \
  -H 'accept: application/json'
```

Request URL

```
http://127.0.0.1:8000/decode/?source=Y15fVhRDV1tNWAMOBkQRAx8c
```

Server response

Code	Details
200	<div><p>Response body</p><pre>"Some valuable text"</pre><p>Response headers<pre>content-length: 20 content-type: application/json date: Sun, 12 Sep 2021 18:01:27 GMT server: uvicorn</pre></p></div> Download

Congrats! It's working!