

Using ARC

swppfall2017 hw3

ARC

- ARC (Advanced REST Client) is a chrome plugin for testing HTTP APIs
- You can see how your API server responds with your custom requests.
- Install from chrome web store
 - <https://chrome.google.com/webstore/detail/advanced-rest-client/hgmloofddfdnphfgcellkdfbfbjeloo>

ARC

Request

☒ Use XHR

HTTP request

Socket

History

Saved

Projects

> Request URL



GET



POST



PUT



DELETE



PATCH

Other methods



Raw headers

Headers form

Headers sets

Variables

A✓

0 bytes

SEND



Selected environment: default

1. Sending a GET request

- Write url of your GET API
- Select 'GET' among the method options
- Click the 'SEND' button to send request
- Response will be shown below

ARC

Request

 Use XHR

HTTP request

`http://localhost:8000/api/hero`

Socket

History

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Projects



GET



POST



PUT



DELETE



PATCH

Other methods



Raw headers

Headers form

Headers sets

Variables



0 bytes

SEND

200 OK

6.00 ms

DETAILS

Raw

JSON



```
[{"id": 2, "name": "Shin"}, {"id": 3, "name": "Song"}]
```



Selected environment: default

2. Sending a POST request with CSRF token

- To send a POST, PUT or DELETE requests, you should append the CSRF token for security
- You should first get the CSRF token from Django
- In the skeleton code of homework 3, `/api/token` is provided for getting the CSRF token

2-1. Getting the CSRF token

- Send a GET request to `/api/token`
 - Response code would be "204 No Content"
- Open "DETAILS" tab and select "Response headers" tab
- Among the headers, you can find
"Set-Cookie: csrftoken=~~~~~"

HTTP request

Socket

History

Saved

Projects

 http://localhost:8000/api/token 

GET



POST



PUT



DELETE



PATCH

Other methods



Raw headers

Headers form

Headers sets

Variables



0 bytes

SEND

204 No Content

7.00 ms

DETAILS ^

Response headers 7

Request headers 1

Redirects 0

Timings

Content-Length: 0

Content-Type: text/html; charset=utf-8

Date: Mon, 09 Oct 2017 14:41:02 GMT

Server: WSGIServer/0.2 (Python/3.6.2)

Set-Cookie: csrftoken=QGHSrGb6gfrUf6CasGhpB85HCMJP5ypZurwsfQfv5bEZxsJyYLaGnn2azat8KXuK; expires=Mon, 08-Oct-2018 14:41:02 GMT; Max-Age=31449600; Path=/

Vary: Cookie

X-Frame-Options: SAMEORIGIN



The response was empty



2-2. Send a POST request with the CSRF token

- Copy the token and add in “Raw headers” as
‘X-CSRFTOKEN: [your csrf token]’
- Also add ‘Content-Type: application/json’
- Write your POST data in the “Raw payload” tab in JSON format

HTTP request

Socket

History

Saved

Projects

`> http://localhost:8000/api/hero`☐ GET☒ POST☐ PUT☐ DELETE☐ PATCH

Other methods

application/json

Raw headers

Headers form

Headers sets

Variables

```
X-CSRFToken: QGH5rGb6gfrUf6CasGhpB85HCMJP5ypZurwsfQfv5bEZxsJyYLa6nn2azat8KXuK
Content-Type: application/json
```



108 bytes

Raw payload

Data form

Files

```
{"name": "New Hero"}
```

SEND

201 Created

42.00 ms

DETAILS ^

Response headers 5

Request headers 4

Redirects 0

Timings

```
Content-Length: 0
Content-Type: text/html; charset=utf-8
Date: Mon, 09 Oct 2017 14:50:10 GMT
Server: WSGIServer/0.2 CPython/3.6.2
X-Frame-Options: SAMEORIGIN
```