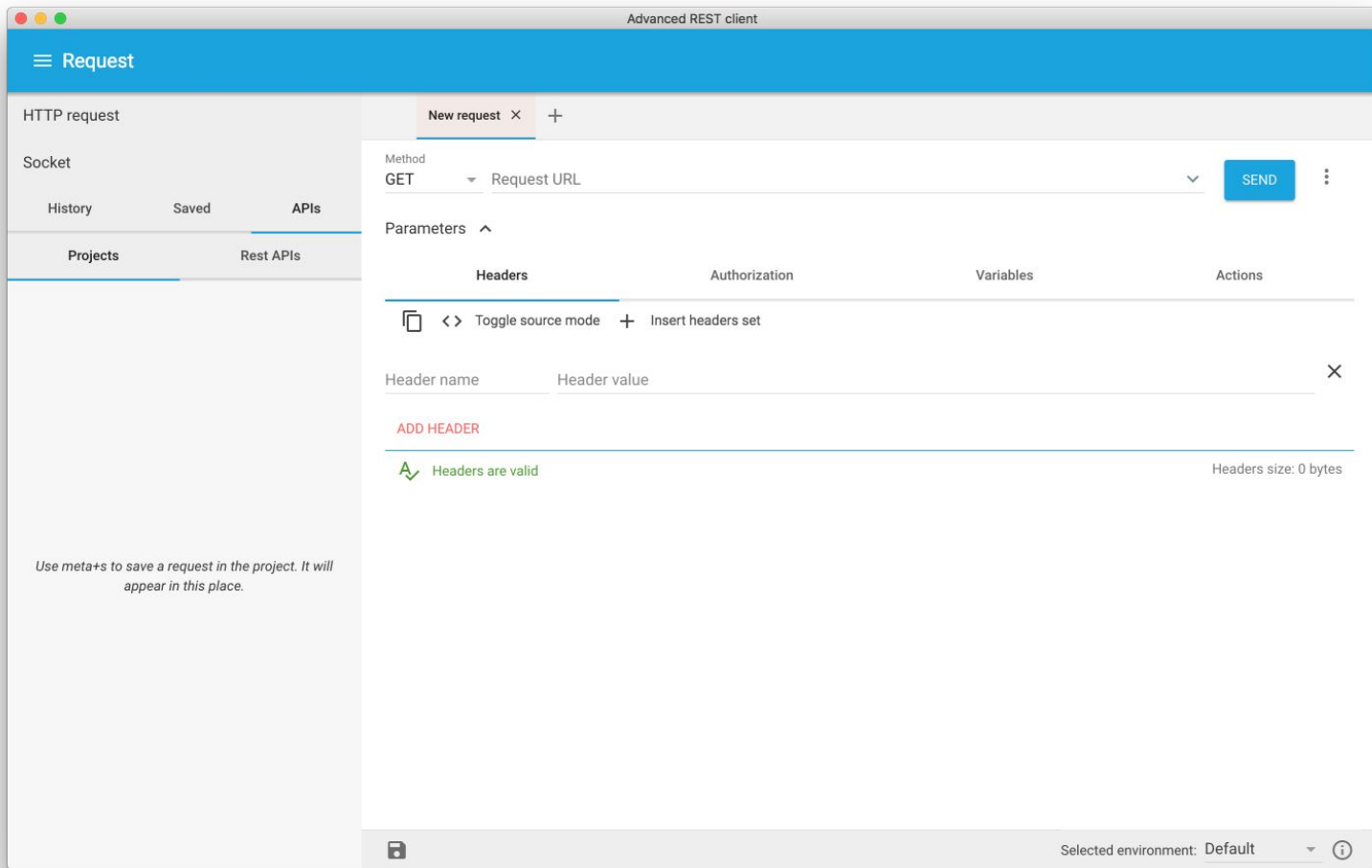# Using ARC

swppfall2018 hw3

ARC

- ARC (Advanced REST Client) is an app for testing HTTP APIs
- You can see how your API server responds with your custom requests.

- Install from chrome web store
  - https://install.advancedrestclient.com

Request

HTTP request

Socket

History | Saved | APIs

Projects | Rest APIs

Use meta+s to save a request in the project. It will appear in this place.

New request ✕ | +

Method
GET ▼ | Request URL ▼ | SEND | ⋮

Parameters ∧

Headers | Authorization | Variables | Actions

⧉ | ‹› Toggle source mode | + Insert headers set

Header name | Header value | ✕

ADD HEADER

⩗ Headers are valid | Headers size: 0 bytes

💾 | 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

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=~~~~~~~~~~"

ARC

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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 CPython/3.6.2
Set-Cookie: csrftoken=QGH5rGb6gfrUf6CasGhpB85HCMJP5ypZurwsfQfv5bEZXsJyYLaGnn2azat8KXuK; expires=Mon, 08-Oct-2018 14:41:02 GMT; Max-Age=31449600; Path=/
Vary: Cookie
X-Frame-Options: SAMEORIGIN

The response was empty

Selected environment: default

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
  - (or "Body" tab in the latest version)

ARC

Request

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HTTP request

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> http://localhost:8000/api/hero

○ GET ● POST ○ PUT ○ DELETE ○ PATCH   Other methods

application/json

Raw headers   Headers form   Headers sets   Variables

X-CSRFTOKEN: QGH5rGb6gfrUf6CasGhpB85HCMJP5ypZurwsfQfv5bEZXsJyYLaGnn2azat8KXuK
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

Selected environment: default