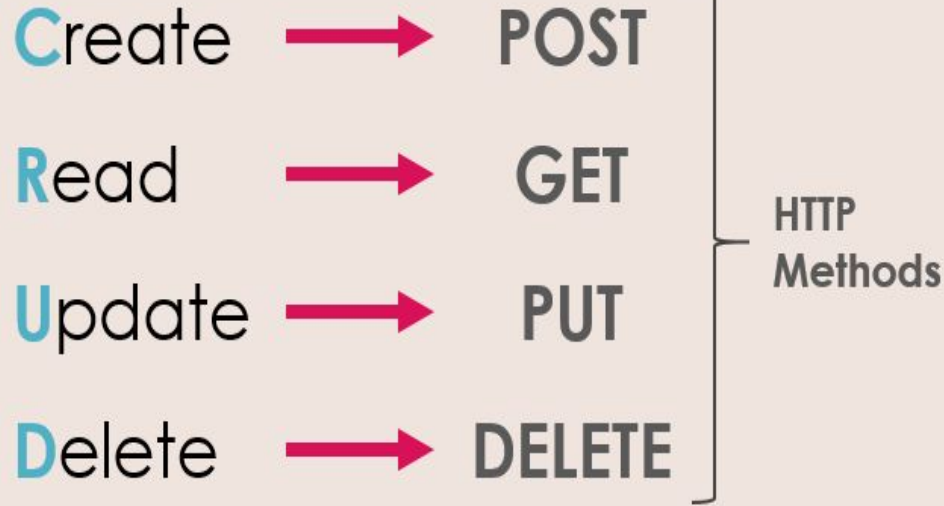


API Testing

1. HTTP Methods?
2. What things do we test?
3. Practice
4. Review day 7
5. Project tasks & Interview questions

Review day 7

1. HTTP Methods?



API tasks



Swagger
powered by SMARTBEAR

definition.yaml

AAS EndUser REST API 1.0.0 OAS3

definition.yaml

This document describes EndUser REST API for AAS

EnduserDiscovery

GET /resources The initial discovery call

Applications

POST /applications Creates an Application

GET /applications Get list of applications within AAS server

GET /applications/{applicationid} Get certain application by ID

PUT /applications/{applicationid} Updates specified application

DELETE /applications/{applicationid} Deletes specified application

POST /applications/{applicationid}/folders Creates a folder in the application.

GET /applications/{applicationid}/folders Get list of folders in the application

POST /applications/{applicationid}/tasks Creates a task in the application.

Task	Method	Path
Create a new task	POST	/tasks
Delete an existing task	DELETE	/tasks/{id}
Get a specific task	GET	/tasks/{id}
Search for tasks	GET	/tasks
Update an existing task	PUT	/tasks/{id}



WeTest
TEST - INSURE

Example API on swagger

publicapi-test /swagger/index.html

POST /v2/export/series/{type} Get multiple series metadata

Try it out

Parameters

Name	Description
type * required string (path)	Type of the series to retrieve. Available values: ,customised, imported, costmodel, shared, clientlibrary, ,
catMetadata boolean (query)	Boolean value (true, false) that will return category and subCategory of the series. If not supplied the default option is false.
metadata boolean (query)	Boolean value (true, false) that will return metadata of the model. If not supplied the default option is false.
seriesType boolean (query)	Boolean value (true, false) that will return series type of the series. If not supplied the default option is false.

Request body application/json-patch+json

Codes of the series to retrieve (written in quotes, separated by commas).
Example Value | Schema

```
{
  "BCSD",
  "CFAB",
  "GDP"
}
```

Responses

Code	Description	Links
------	-------------	-------

2. What things do we test?

Request

Raw Params Headers Hex

```
POST /insecure/meothd/userinfo.php: path traversal/idor HTTP/1.1: out of date
Host: testphp.vulnweb.com: open redirection, originatcal source...
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:72.0) Gecko/20100101 Firefox/72.0
command injection
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: en,vi-VN;q=0.8,vi;q=0.5,en-US;q=0.3
Content-Type: application/x-www-form-urlencoded: malwere, file extention
Content-Length: 31
Origin: http://testphp.vulnweb.com: SOP, CORS...
Connection: close
Referer: http://testphp.vulnweb.com/login.php:...
Upgrade-Insecure-Requests: 1
```

```
uname=fddgdgdgdg: xxs, sqlinject&pass=gfdgdgdgdgd: database, source...
```

Response

Raw Headers Hex

```
HTTP/1.1 302 Found
Server: nginx/1.4.1
Date: Sat, 08 Feb 2020 02:11:26 GMT
Content-Type: text/html
Connection: close
X-Powered-By: PHP/5.3.10-1-lucid+2uvsig2
Location: login.php
Content-Length: 14
```

you must login

Request

Raw Params Headers Hex

```
POST /comment.php HTTP/1.1
Host: testphp.vulnweb.com
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:74.0)
Gecko/20100101 Firefox/74.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: en,vi-VN;q=0.8,vi;q=0.5,en-US;q=0.3
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 100
Origin: http://testphp.vulnweb.com
Connection: close
Referer: http://testphp.vulnweb.com/comment.php?aid=2
Cookie: login=test12Test
Upgrade-Insecure-Requests: 1
```

```
name=130yournamehere&13&comment=nhantcomment&Submit=Submit&hpaction=
ho+14_POST15Bcomment15D43B
```

Response

Raw Headers Hex HTML Render

```
HTTP/1.1 200 OK
Server: nginx/1.4.1
Date: Wed, 11 Feb 1970 01:49:19 GMT
Content-Type: text/html
Connection: close
X-Powered-By: PHP/5.3.10-1-lucid+2uvsig2
Content-Length: 565
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<title>
<your name here> commented</title>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<style type="text/css">
</style>
<body>
<div>
margin-left: 0px;
margin-top: 0px;
margin-right: 0px;
margin-bottom: 0px;
</div>
</body>
</html>
```



3. Practice

Rental:

1. **Create API**: get all tools, get a single tool, create an order, get all orders
2. **Create test case**: get all tools, get a single tool

5. Interview question

1. How many kind of http methods? The meaning of each one?
2. What elements do you test with an API?
3. Why do people need to test api when people done UI testing before?

Project tasks

Rental Project: Please see .doc requirement on share Driver: /Document

(The API is available at <https://simple-tool-rental-api.glitch.me>)

Create test case:

- Get all tools
- Get a single tool
- Get all orders