

流量分析

1、请求一个 location 没啥卵用

Req:

```
GET http://seat.lib.whu.edu.cn/ HTTP/1.1
Host: seat.lib.whu.edu.cn
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:63.0) Gecko/20100101 Firefox/63.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Connection: keep-alive
Cookie: JSESSIONID=35D29F58753C68CF42CE20D596A83AF7
Upgrade-Insecure-Requests: 1
```

Param:JSESSIONID

Res:

```
HTTP/1.1 302 Found
Date: Mon, 10 Dec 2018 01:37:30 GMT
Server: Apache-Coyote/1.1
X-Frame-Options: SAMEORIGIN
Location: http://seat.lib.whu.edu.cn/login?targetUri=%2F
Content-Length: 0
Keep-Alive: timeout=5, max=1000
Connection: Keep-Alive
```

2、请求获得主页(重定向来的)

Req: JSESSIONID 同上一个

```
GET http://seat.lib.whu.edu.cn/login?targetUri=%2F HTTP/1.1
Host: seat.lib.whu.edu.cn
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:63.0) Gecko/20100101 Firefox/63.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Connection: keep-alive
Cookie: JSESSIONID=35D29F58753C68CF42CE20D596A83AF7
Upgrade-Insecure-Requests: 1
```

Res: 返回首页信息。(里面藏有 token)

```
XML
HTTP/1.1 200 OK
Date: Mon, 10 Dec 2018 01:37:30 GMT
Server: Apache-Coyote/1.1
X-Frame-Options: SAMEORIGIN
Content-Type: text/html; charset=UTF-8
Content-Language: zh-CN
Keep-Alive: timeout=5, max=999
Connection: Keep-Alive
Content-Length: 9010

<!DOCTYPE html>
<html>
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
  <title>首页</title>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="shortcut icon" href="/static/D4IVMkzmNj720j3Fh2C2TffEqedXopZEw95HhtmlKMIm.ico" type="image/x-ico">
</head>
<body>
  <div class="container">
    <div class="row">
      <div class="col-md-12">
        <div class="text-align: center; padding: 20px 0;>
          <h1>欢迎来到图书馆</h1>
          <h2>请登录后使用</h2>
          <a href="/login" class="btn btn-primary">登录</a>
          <a href="/register" class="btn btn-primary">注册</a>
        </div>
      </div>
    </div>
  </div>
</body>
</html>
```

3、登录认证

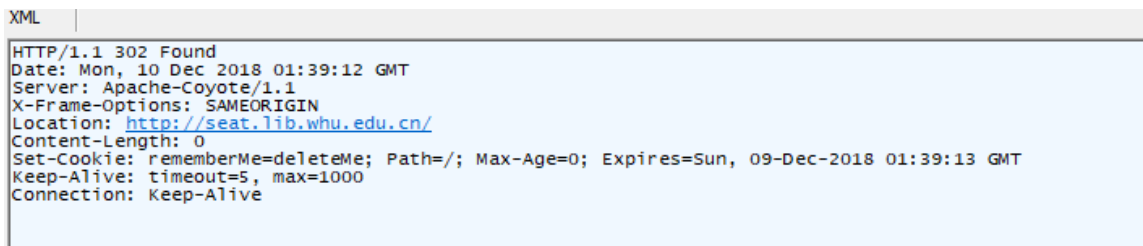
Req:



Param:TOKEN 和 URI 来自登陆页面，authid 固定，appid 和 appAuthKey 固定写在前面的某个js 里，直接用

QueryString	
Name	Value
Body	
Name	Value
SYNCHRONIZER_TOKEN	642a5b7f-c309-4d16-8dc5-688f077d279e
SYNCHRONIZER_URI	/login
username	[REDACTED]
password	[REDACTED]
authid	-1
appid	a3a5c1fa9e41c2b2447a52c5bd7ea0
appAuthKey	a109981dd38540d5b20b4af760d7f6f1

Res:



4、请求登陆后页面(重定向来的?)

Req:

```
GET http://seat.lib.whu.edu.cn/ HTTP/1.1
Host: seat.lib.whu.edu.cn
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:63.0) Gecko/20100101 Firefox/63.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Referer: http://seat.lib.whu.edu.cn/login?targetUri=%2F
Connection: keep-alive
Cookie: JSESSIONID=35D29F58753C6BCF42CE20D596A83AF7
Upgrade-Insecure-Requests: 1
```

Res:

```
HTTP/1.1 200 OK
Date: Mon, 10 Dec 2018 01:39:13 GMT
Server: Apache-Coyote/1.1
X-Frame-Options: SAMEORIGIN
Content-Type: text/html; charset=UTF-8
Content-Language: zh-CN
Keep-Alive: timeout=5, max=999
Connection: Keep-Alive
Content-Length: 37743

<html>
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
  <title>自选座位 :: 图书馆空间预约系统</title>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta name="keywords" content="利息系统, 利息软件, 图书馆空间预约系统, 占座系统, 私有云网盘开发商"/>
  <meta name="description" content=""/>
  <link rel="shortcut icon" href="/static/D4IVMkzmNj720jJFh2C2TffEqedXopZEw95HhtmKMIm.ico" type="image/x-ic
```

得到登陆后页面源码和一个 css

5、获得座位相关信息

Req:

```
POST http://seat.lib.whu.edu.cn/freeBook/ajaxGetRooms HTTP/1.1
Host: seat.lib.whu.edu.cn
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:63.0) Gecko/20100101 Firefox/63.0
Accept: */*
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Referer: http://seat.lib.whu.edu.cn/
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 4
Connection: keep-alive
Cookie: JSESSIONID=35D29F58753C6BCF42CE20D596A83AF7

id=1
```

Res:各个区域的对应 value

```
HTTP/1.1 200 OK
Date: Mon, 10 Dec 2018 01:39:50 GMT
Server: Apache-Coyote/1.1
X-Frame-Options: SAMEORIGIN
Content-Type: text/html; charset=UTF-8
Content-Length: 888
Keep-Alive: timeout=5, max=1000
Connection: Keep-Alive

<a href="javascript:void(0)" value="4">3C创客空间</a>

<a href="javascript:void(0)" value="5">创新学习讨论区</a>

<a href="javascript:void(0)" value="6">西自然科学区</a>

<a href="javascript:void(0)" value="7">东自然科学区</a>

<a href="javascript:void(0)" value="8">西社会科学区</a>

<a href="javascript:void(0)" value="9">西图书阅览区</a>

<a href="javascript:void(0)" value="10">东社会科学区</a>

<a href="javascript:void(0)" value="11">东图书阅览区</a>

<a href="javascript:void(0)" value="12">自主学习区</a>

<a href="javascript:void(0)" value="13">3C创客电子阅读</a>

<a href="javascript:void(0)" value="14">3C创客双屏电脑</a>

<a href="javascript:void(0)" value="15">创新学习苹果区</a>

<a href="javascript:void(0)" value="16">创新学习云桌面</a>
```

6、指定区域座位搜索功能：

Req:

```
POST http://seat.lib.whu.edu.cn/freeBook/ajaxSearch HTTP/1.1
Host: seat.lib.whu.edu.cn
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:63.0) Gecko/20100101 Firefox/63.0
Accept: */*
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Referer: http://seat.lib.whu.edu.cn/
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 89
Connection: keep-alive
Cookie: JSESSIONID=35D29F58753C6BCF42CE20D596A83AF7

onDate=2018-12-10&building=1&room=6&hour=1&startMin=720&endMin=780&power=null&window=null
```

参数：

Body	
Name	Value
onDate	2018-12-10
building	1
room	6
hour	1
startMin	720
endMin	780
power	null
window	null

这里以信图实验的话：

building=1 是信图

room 6 是前面所说 西自然科学,

hour 表示时长

startMin 开始时间 12-> 12*60=720

endMin 结束时间 13-> 13*60=780

power 带插座

window 靠窗

Res:

```
HTTP/1.1 200 OK
Date: Mon, 10 Dec 2018 01:40:15 GMT
Server: Apache-Coyote/1.1
X-Frame-Options: SAMEORIGIN
Content-Type: application/json; charset=UTF-8
Keep-Alive: timeout=5, max=1000
Connection: Keep-Alive
Content-Length: 1546

{"seatStr": "\n\n<ul class=\"item\">\n\n    \n\n    <li class=\"using\" id=\"seat_3113\" title=\"正在使用中\">\n
```

整理如下:

```
{"seatStr":
```

```
"
```

```
<ul class=\"item\">
```

```
<li class=\"using\" id=\"seat_3113\" title=\"正在使用中\">
<dl>
  <dt>005<\u002fdt>
  <dd>西自然科学区<\u002fdd>
  <\u002fdl>
  <\u002fli>
```

```
</ul>”,
```

```
“seatNum”:7,
```

```
“onDate”:“2018-12-10”,
```

```
“offset”:-1
```

```
}
```

7、选定座位后确定时间：由于抢座都是事先确定好了位置直接发包，所以应该没卵用

流程：先点击座位会得到开始时间，然后选完开始时间会得到结束时间

第一次 Req：发送选择的座位号

QueryString	
Name	Value
Body	
Name	Value
id	3113
date	2018-12-10

Res:

QueryString	
Name	Value
Body	
Name	Value
id	3113
date	2018-12-10

座位当前可以预约的开始时间：

```
HTTP/1.1 200 OK
Date: Mon, 10 Dec 2018 01:47:37 GMT
Server: Apache-Coyote/1.1
X-Frame-Options: SAMEORIGIN
Content-Type: text/html; charset=UTF-8
Content-Length: 491
Keep-Alive: timeout=5, max=1000
Connection: Keep-Alive

<input type="hidden" name="seat" value="3113" id="seat" />
<input type="hidden" name="room" value="西自然科学区" id="room" />
<input type="hidden" name="building" value="信息馆" id="building" />

<li><a href="#" time="690">11:30</a></li>
<li><a href="#" time="720">12:00</a></li>
<li><a href="#" time="750">12:30</a></li>
<li><a href="#" time="780">13:00</a></li>
<li><a href="#" time="810">13:30</a></li>
<li><a href="#" time="1320">22:00</a></li>
```

第二次发包对应点完起始时间获得右边窗口结束时间：

Req:

QueryString	
Name	Value
Body	
Name	Value
start	720
seat	3113
date	2018-12-10

Res:

HTML
HTTP/1.1 200 OK Date: Mon, 10 Dec 2018 01:47:38 GMT Server: Apache-Coyote/1.1 X-Frame-Options: SAMEORIGIN Content-Type: text/html; charset=UTF-8 Content-Length: 191 Keep-Alive: timeout=5, max=999 Connection: Keep-Alive 12:30 13:00 13:30 14:00

8、发送预约包，这是主要的步骤之一

Req:

POST http://seat.lib.whu.edu.cn/selfRes HTTP/1.1 Host: seat.lib.whu.edu.cn User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:63.0) Gecko/20100101 Firefox/63.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2 Accept-Encoding: gzip, deflate Referer: http://seat.lib.whu.edu.cn/ Content-Type: application/x-www-form-urlencoded Content-Length: 213 Connection: keep-alive Cookie: JSESSIONID=35D29F58753C6BCF42CE20D596A83AF7 Upgrade-Insecure-Requests: 1 SYNCHRONIZER_TOKEN=00d64940-9fe3-4e0e-b508-9b09b239aeb7&SYNCHRONIZER_URI=%2F&date=2018-12-10&seat=3113&start=720

Param:

