Web安全作业一 JSONP

1. 配置hosts文件

For Web Security Lab

```
10.0.0.2 web.cybersecurity.seu.edu
10.0.0.3 time.cybersecurity.seu.edu
10.0.0.4 jsonp.cybersecurity.seu.edu
```

2. <u>time.cybersecurity.seu.edu</u> 接口实现

2.1 /api/date 接口实现

```
app.get("/api/date", (req, res) => {
  res.send({ date: Date.now() })
})
```

2.2 /api/datecors 接口实现

```
app.all("/api/datecors", (req, res) => {
    res.header("Access-Control-Allow-Origin", "http://
    web.cybersecurity.seu.edu")
    res.header("Access-Control-Allow-Methods", "GET")
    res.send({ date: Date.now() })
```

2.3 /api/jsonpdate 接口实现

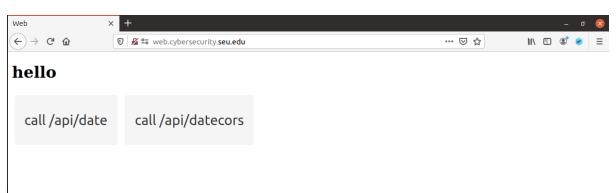
```
app.get("/api/jsonpdate", (req, res) => {
  let jsonp_command = `${req.query.callback}(${JSON.stringify(Date.now())})`
  res.send(jsonp_command)
})
```

3. web.cybersecurity.seu.edu 实现

3.1 index.html

(关于按钮样式部分代码省略)

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8" />
 <title>Web</title>
</head>
<body>
 <script>
  function onClickBtn(url) {
   let reg = new XMLHttpReguest()
   req.open("GET", url, true)
   req.onreadystatechange = () => {
    if (req.readyState === 4 && req.status === 200) {
     let data = req.responseText
     alert(data)
    }
   }
   req.send()
 </script>
 <h1>hello</h1>
 <button class="button" style="vertical-align:middle"</pre>
  onclick="onClickBtn('http://time.cybersecurity.seu.edu/api/
date')"><span>call /api/date</span></button>
 <button class="button" style="vertical-align:middle"</pre>
  onclick="onClickBtn('http://time.cybersecurity.seu.edu/api/
datecors')"><span>call /api/datecors</span></button>
</body>
```



3.2 server.js

```
const express = require("express")
const fs = require("fs")

const app = express()

app.get("/", (req, res) => {
    fs.createReadStream("index.html").pipe(res)
})

app.get("/buttons.css", (req, res) => {
    fs.createReadStream("buttons.css").pipe(res)
})
```

4. time.cybersecurity.seu.edu 实现

4.1 index.html

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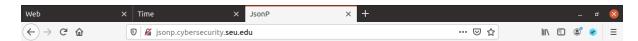
4.2 server.js

```
const express = require("express")
const fs = require("fs")
const app = express()
app.get("/", (req, res) => {
 fs.createReadStream("./index.html").pipe(res)
})
app.get("/api/date", (req, res) => {
 res.send({ date: Date.now() })
})
app.all("/api/datecors", (req, res) => {
 res.header("Access-Control-Allow-Origin", "http://
web.cybersecurity.seu.edu")
 res.header("Access-Control-Allow-Methods", "GET")
 res.send({ date: Date.now() })
})
app.get("/api/jsonpdate", (req, res) => {
 let jsonp_command = `${req.query.callback}(${JSON.stringify(Date.now())})`
 res.send(jsonp_command)
})
```

5. jsonp.cybersecurity.seu.edu 实现

5.1 index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8" />
 <title>JsonP</title>
</head>
<body>
 <h1>hello again</h1>
 <script>
  function getDate(data) {
   alert(`{\"date\":${data}}`)
  }
 </script>
 <script src="http://time.cybersecurity.seu.edu/api/jsonpdate?</pre>
callback=getDate"></script>
</body>
```



hello again

5.2 server.js

```
const express = require("express")
const fs = require("fs")

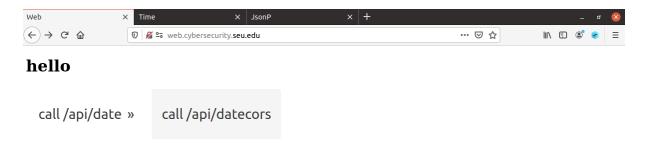
const app = express()

app.get("/", (req, res) => {
   fs.createReadStream("./index.html").pipe(res)
})

app.listen(80)
```

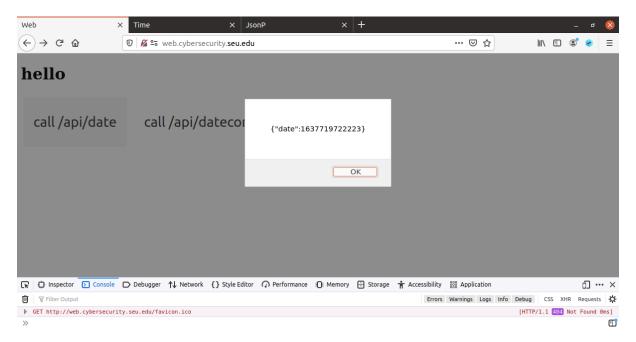
6. 实验测试

6.1 在web.cybersecurity.seu.edu 中读取接口/api/date数据





6.2 在web.cybersecurity.seu.edu 中读取接口/api/datecors数据



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6.3 在jsonp.cybersecurity.seu.edu 中通过回调读取接口/api/date数据

