

REPORT 622F5DAC4FC91C0019F8E375

Created Mon Mar 14 2022 15:22:20 GMT+0000 (Coordinated Universal Time)

Number of analyses 1

User 61955db4c8c2c714bb27c662

REPORT SUMMARY

Analyses ID Main source file Detected vulnerabilities

0

<u>fb8b7ebd-98d1-426c-a64c-b93b014a1ef3</u> /contracts/paymentmodule.sol

Started

Finished Mon Mar 14 2022 15:22:20 GMT+0000 (Coordinated Universal Time)

Mode Deep

Client Tool Mythx-Vscode-Extension

Main Source File /Contracts/Paymentmodule.Sol

DETECTED VULNERABILITIES

(HIGH	(MEDIUM	(LOW
0	0	0

ISSUES

```
UNKNOWN Arithmetic operation "++" discovered
```

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

/contracts/paymentmodule.sol

Locations

```
42 | }
43  //add to list index
44  listedNFTList.push(tokenIds[0]);
45  }
```

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

 $/ {\tt contracts/payment module.sol}\\$

```
function removeListNFT(uint256 tokenId) public virtual onlyOwner {
    require(registeredPayment[tokenId].buyer == address(0), 'RegisterPayment exists for NFT');

//unlock token
```

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

/contracts/paymentmodule.sol

Locations

```
tokenLock[listedNFT[tokenId].listedtokens[i]] = false;

//delete from index
for (uint256 i = 0; i < listedNFTList.length; i++) {
    if (listedNFTList[i] == tokenId) {</pre>
```

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

/contracts/paymentmodule.sol

Locations

```
for (uint256 i = 0; i < listedNFTList.length; i++) {
   if (listedNFTList[i] == tokenId) {
    listedNFTList[i] = listedNFTList.length - 1];
    listedNFTList.pop();
   break;</pre>
```

UNKNOWN Arithmetic operation "-" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

/contracts/paymentmodule.sol

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

/contracts/paymentmodule.sol

Locations

```
for (uint256 i = 0; i < listedTokens.length; i++) {
require(tokenIds[i] == listedTokens[i], 'One or more tokens are not listed');
}
return true;
}</pre>
```

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

/contracts/paymentmodule.sol

Locations

```
require(tokenIds[i] == listedTokens[i], 'List of token not match');

return true;
}
```

UNKNOWN Compiler-rewritable "<uint> - 1" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

/contracts/paymentmodule.sol

```
66 | listedNFTList.pop();
67 | break;
68 |
69 |
70 |
71 | delete listedNFT[tokenId];
72 |
```

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

Locations

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

Locations

```
//add to list index
listedNFTList.push(tokenIds[0]);

function existsInListNFT(uint256[] memory tokenIds) public view virtual returns (bool) {

if (listedNFT[tokenIds[0]].seller != address(0)) return true;
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

```
45 }
46
47 function existsInListNFT(uint256[] memory tokenIds) public view virtual returns (bool) {
48 if (listedNFT[tokenIds[0]].seller != address(0)) return true;
```

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

Locations

```
if (listedNFT[tokenIds[0]].seller != address(0)) return true;

for (uint256 i = 0; i < tokenIds.length; i++)
if (tokenLock[tokenIds[i]]) return true;

return false;

if (listedNFT[tokenIds[0]].seller != address(0)) return true;

return false;</pre>
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

Locations

```
function removeListNFT(uint256 tokenId) gublic virtual onlyOwner {
    require(registeredPayment[tokenId].buyer == address(0), 'RegisterPayment exists for NFT');
}
//unlock token
```

UNKNOWN Out of bounds array access

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SWC-110

Source file

/contracts/paymentmodule.sol

```
61 | }
62  //delete from index
63  for (uint 256 i = 0 i | listedNFTList length; i++) {
64   if (listedNFTList[i] == tokenId) {
65     listedNFTList[i] = listedNFTList.length - 1];
```

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

Locations

```
for (uint256 i = 0; i < listedNFTList.length; i++) {
    if (listedNFTList[i] == tokenId) {
        listedNFTList[i] = listedNFTList.length_-| 1],
        listedNFTList.pop();
        break;
    }
}</pre>
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

Locations

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

```
listedNFTList[i] = listedNFTList[listedNFTList.length - 1];
listedNFTList.pop();
break;

break;

delete listedNFT[tokenId];
}
```

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

Locations

```
//check if NFT(s) are even listed
require(listedNFT[tokenIds[0]].seller != address(0), 'NFT(s) not listed');
//check if seller is really a seller
require(listedNFT[tokenIds[0]].seller == seller, 'Submitted Seller is not Seller');
//check if payment is sufficient
require(listedNFT[tokenIds[0]].price <= payment, 'Payment is too low');</pre>
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

Locations

```
//check if seller is really a seller

require(listedNFT[tokenIds[0]].seller == seller, 'Submitted Seller is not Seller');

//check if payment is sufficient

require(listedNFT[tokenIds[0]].price <= payment, 'Payment is too low');

//check if token type supported

require(_isSameString(listedNFT[tokenIds[0]].tokenType, tokenType), 'Payment token does not match list token type');
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

```
require(listedNFT[tokenIds[0]].price <= payment, 'Payment is too low');

//check if token type supported

require(_isSameString(listedNFT[tokenIds[0]].tokenType, tokenType), 'Payment token does not match list token type');

//check if listed NFT(s) match NFT(s) in the payment and are controlled by seller

uint256[] memory listedTokens = listedNFT[tokenIds[0]].listedtokens;
```

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

Locations

```
//check if token type supported

require(_isSameString(listedNFT[tokenIds[0]].tokenType, tokenType), 'Payment token does not match list token type');

//check if listed NFT(s) match NFT(s) in the payment and are controlled by seller

uint256[] memory listedTokens = listedNFT[tokenIds[0]].listedtokens;

for (uint256 i = 0; i < listedTokens.length; i++) {
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

Locations

```
uint256[] memory listedTokens = listedNFT[tokenIds[0]].listedtokens;

for (uint256 i = 0; i < listedTokens.length; i++) {

require tokenIds[i] == listedTokens[i], 'One or more tokens are not listed');

}

return true;</pre>
```

UNKNOWN Out of bounds array access

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SWC-110

Source file

/contracts/paymentmodule.sol

```
require(tokenIds[i] == listedTokens[i], 'One or more tokens are not listed');

return true;

function addRegisterPayment(
address buyer,

uint256[] calldata tokenIds,
```

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

Locations

```
103 }
104
105 function addRegisterPayment(
106 address buyer,
107 uint256[] calldata tokenIds,
```

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SWC-110

Source file

/contracts/paymentmodule.sol

Locations

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SWC-110

Source file

/contracts/paymentmodule.sol

Locations

```
) public virtual onlyOwner {

require(registeredPayment[tokenIds[0]].buyer == address(0), 'RegisterPayment already exists');

registeredPayment[tokenIds[0]] = RegisteredPayment({buyer: buyer, boughtTokens: tokenIds, tokenType: tokenType, payment_payment_);
}
```

UNKNOWN Out of bounds array access

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SWC-110

Source file

/contracts/paymentmodule.sol

```
require(registeredPayment[tokenIds[0]].buyer == buyer, 'RegisterPayment not found');

//check if payment is sufficient

require(registeredPayment[tokenIds[0]].payment == payment, 'Payment not match');

//check if token type supported

require(_isSameString(registeredPayment[tokenIds[0]].tokenType, tokenType), 'TokenType not match');
```

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

Locations

```
require(registeredPayment[tokenIds[0]].payment == payment, 'Payment not match');

//check if token type supported

require__isSameString(registeredPayment[tokenIds[0]].tokenType, tokenType), 'TokenType not match');

//check if token list are same

uint256[] memory listedTokens = listedNFT[tokenIds[0]].listedtokens;
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/contracts/paymentmodule.sol

Locations

```
require(_isSameString(registeredPayment[tokenIds[0]].tokenType, tokenType), 'TokenType not match');

//check if token list are same

uint256[] memory listedTokens = listedNFT[tokenIds[0]].listedtokens;

for (uint256 i = 0; i < listedTokens.length; i++) {

require(tokenIds[i] == listedTokens[i], 'List of token not match');
```

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Source file

/contracts/paymentmodule.sol

```
uint256[] memory listedTokens = listedNFT[tokenIds[0]].listedtokens;

for (uint256 i = 0; i < listedTokens.length; i++) {

require tokenIds[i] == listedTokens[i], 'List of token not match');
}

return true;</pre>
```

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