

Solo Audit Report

Project Name: Birds of Space NFT Marketplace

Introduction

The Birds of Space NFT Marketplace project aims to establish a decentralized platform on the Ethereum blockchain for the trading of non-fungible tokens (NFTs). This marketplace, known as "Birds of Space NFT Marketplace," seeks to create a vibrant ecosystem where users can securely buy, sell, and trade digital assets representing unique collectibles, artworks, and virtual goods.

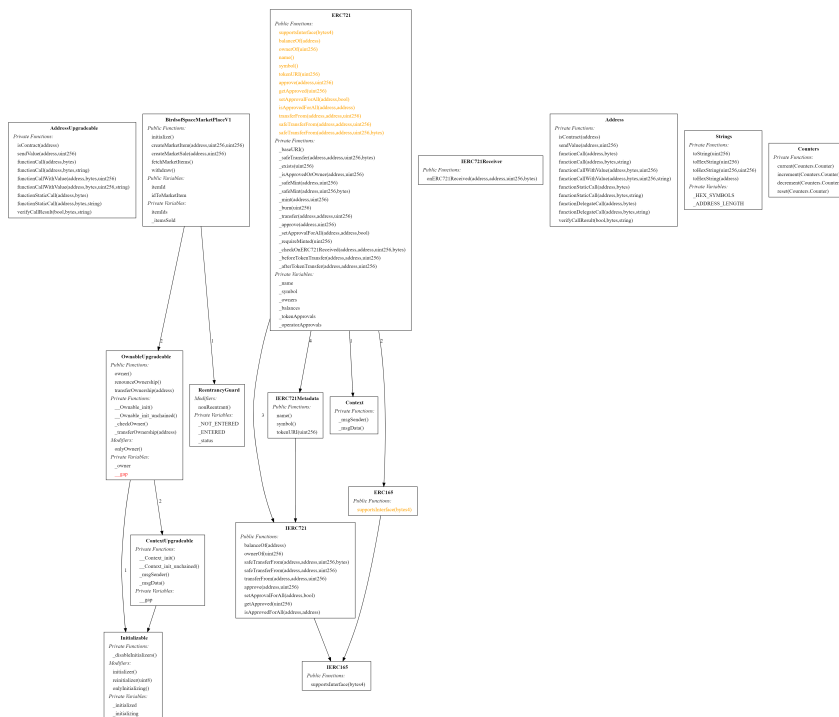
Audit Overview

The objective of this audit report is to evaluate the smart contract code and the comprehensive security measures integrated into the Birds of Space NFT Marketplace project. The assessment involves scrutinizing the solidity codebase for potential vulnerabilities and verifying adherence to the industry's best practices in smart contract development. Additionally, the audit will assess the platform's user interface for usability, accessibility, and responsiveness, ensuring a seamless and intuitive experience for users interacting with the marketplace.

Conclusion

The audit report aims to provide insights into the security posture of the Birds of Space NFT Marketplace project and identify areas for improvement. By conducting this audit, we aim to enhance the overall robustness and reliability of the smart contract codebase and user interface, thereby promoting trust and confidence among stakeholders participating in the NFT marketplace ecosystem.

Summary of Code Compilation and Quality Analysis



flow.png

- Compiled with solc
- Total number of contracts in source files: 16
- Source lines of code (SLOC) in source files: 688

- Number of assembly lines: 0
- Number of optimization issues: 0
- Number of informational issues: 69
- Number of low issues: 0
- Number of medium issues: 0
- Number of high issues: 1
- ERCs: ERC165, ERC721

Name	# functions	ERCs	ERC20 info	Complex code	Features
AddressUpgradeable	9			No	Send ETH
					Assembly
IERC721Receiver	1			No	
Address	11			No	Send ETH
					Delegatecall
					Assembly
Strings	5			No	
ERC721	45	ERC165,ERC721		No	Assembly
Counters	4			No	
BirdsofSpaceMarketPlaceV1	19			No	Receive ETH
					Send ETH
					Tokens interaction
					Upgradeable

Contract AddressUpgradeable

Function	Modifiers
isContract	[]
sendValue	[]
functionCall	[]
functionCall	[]
functionCallWithValue	[]
functionCallWithValue	[]
functionStaticCall	[]
functionStaticCall	[]
verifyCallResult	[]

Contract IERC721Receiver

Function	Modifiers
onERC721Received	[]

Contract Address

Function	Modifiers
isContract	[]
sendValue	[]
functionCall	[]
functionCall	[]
functionCallWithValue	[]
functionCallWithValue	[]
functionStaticCall	[]

Function	Modifiers
functionStaticCall	[]
functionDelegateCall	[]
functionDelegateCall	[]
verifyCallResult	[]

Contract Strings

Function	Modifiers
toString	[]
toHexString	[]
toHexString	[]
toHexString	[]
slitherConstructorConstantVariables	[]

Contract ERC721

Function	Modifiers
name	[]
symbol	[]
tokenURI	[]
balanceOf	[]
ownerOf	[]
safeTransferFrom	[]
safeTransferFrom	[]
transferFrom	[]
approve	[]
setApprovalForAll	[]
getApproved	[]
isApprovedForAll	[]
supportsInterface	[]
supportsInterface	[]
_msgSender	[]
_msgData	[]
constructor	[]
supportsInterface	[]
balanceOf	[]
ownerOf	[]
name	[]
symbol	[]
tokenURI	[]
_baseURI	[]
approve	[]
getApproved	[]
setApprovalForAll	[]
isApprovedForAll	[]
transferFrom	[]
safeTransferFrom	[]
safeTransferFrom	[]
_safeTransfer	[]
_exists	[]
_isApprovedOrOwner	[]
_safeMint	[]
_safeMint	[]
_mint	[]
_burn	[]
_transfer	[]
_approve	[]
_setApprovalForAll	[]
_requireMinted	[]
_checkOnERC721Received	[]
_beforeTokenTransfer	[]
_afterTokenTransfer	[]

Contract Counters

Function	Modifiers
current	[]
increment	[]
decrement	[]
reset	[]

Contract BirdsofSpaceMarketPlaceV1

Function	Modifiers
__Ownable_init	['onlyInitializing']
__Ownable_init_unchained	['onlyInitializing']
owner	[]
_checkOwner	[]
renounceOwnership	['onlyOwner']
transferOwnership	['onlyOwner']
_transferOwnership	[]
__Context_init	['onlyInitializing']
__Context_init_unchained	['onlyInitializing']
_msgSender	[]
_msgData	[]
_disableInitializers	[]
constructor	[]
constructor	[]
initialize	['initializer', 'onlyInitializing']
createMarketItem	['nonReentrant']
createMarketSale	['nonReentrant']
fetchMarketItems	[]
withdraw	['onlyOwner']

Contract AddressUpgradeable

- Contract vars: []
- Inheritance:: []

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
isContract(address)	internal	[]	[]	[]	['code(address)']	[]	1
sendValue(address,uint256)	internal	[]	['this']	[]	['balance(address)', 'require(bool,string)']	['recipient.call{value: amount}()']	1
functionCall(address,bytes)	internal	[]	[]	[]	['functionCall']	[]	1
functionCall(address,bytes,string)	internal	[]	[]	[]	['functionCallWithValue']	[]	1
functionCallWithValue(address,bytes,uint256)	internal	[]	[]	[]	['functionCallWithValue']	[]	1
functionCallWithValue(address,bytes,uint256,string)	internal	[]	['this']	[]	['balance(address)', 'isContract']	['target.call{value: value}(data)']	1
functionStaticCall(address,bytes)	internal	[]	[]	[]	['functionStaticCall']	[]	1
functionStaticCall(address,bytes,string)	internal	[]	[]	[]	['isContract', 'require(bool,string)']	['target.staticcall(data)']	1
verifyCallResult(bool,bytes,string)	internal	[]	[]	[]	['mload(uint256)', 'revert(string)']	[]	2

Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
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Contract Initializable

- Contract vars: ['_initialized', '_initializing']

- Inheritance: []

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
_disableInitializers()	internal	[]	['_initialized', '_initializing']	['_initialized']	['require(bool,string)']	[]	2

Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
initializer()	internal	['_initialized', '_initializing']	['_initialized', '_initializing']	['require(bool,string)']	['AddressUpgradeable.isContract(address(this))']	3
		[this]				
reinitializer(uint8)	internal	['_initialized', '_initializing']	['_initialized', '_initializing']	['require(bool,string)']	[]	1
onlyInitializing()	internal	['_initializing']	[]	['require(bool,string)']	[]	1

Contract ContextUpgradeable

- Contract vars: ['__gap']
- Inheritance: ['Initializable']

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
_disableInitializers()	internal	[]	['_initialized', '_initializing']	['_initialized']	['require(bool,string)']	[]	2
__Context_init()	internal	['onlyInitializing']	[]	[]	['onlyInitializing']	[]	1
__Context_init_unchained()	internal	['onlyInitializing']	[]	[]	['onlyInitializing']	[]	1
_msgSender()	internal	[]	[msg.sender]	[]	[]	[]	1
_msgData()	internal	[]	[msg.data]	[]	[]	[]	1

Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
initializer()	internal	['_initialized', '_initializing']	['_initialized', '_initializing']	['require(bool,string)']	['AddressUpgradeable.isContract(address(this))']	3
		[this]				
reinitializer(uint8)	internal	['_initialized', '_initializing']	['_initialized', '_initializing']	['require(bool,string)']	[]	1
onlyInitializing()	internal	['_initializing']	[]	['require(bool,string)']	[]	1

Contract OwnableUpgradeable

- Contract vars: ['_owner', '__gap']
- Inheritance: ['ContextUpgradeable', 'Initializable']

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
__Context_init()	internal	['onlyInitializing']	[]	[]	['onlyInitializing']	[]	1
__Context_init_unchained()	internal	['onlyInitializing']	[]	[]	['onlyInitializing']	[]	1
_msgSender()	internal	[]	[msg.sender]	[]	[]	[]	1
_msgData()	internal	[]	[msg.data]	[]	[]	[]	1
_disableInitializers()	internal	[]	['_initialized', '_initializing']	['_initialized']	['require(bool,string)']	[]	2
__Ownable_init()	internal	['onlyInitializing']	[]	[]	['__Ownable_init_unchained', 'onlyInitializing']	[]	1
__Ownable_init_unchained()	internal	['onlyInitializing']	[]	[]	['_msgSender', '_transferOwnership']	[]	1
owner()	public	[]	['_owner']	[]	[]	[]	1
_checkOwner()	internal	[]	[]	[]	['_msgSender', 'owner']	[]	1
renounceOwnership()	public	['onlyOwner']	[]	[]	['_transferOwnership', 'onlyOwner']	[]	1
transferOwnership(address)	public	['onlyOwner']	[]	[]	['_transferOwnership', 'onlyOwner']	[]	1
_transferOwnership(address)	internal	[]	['_owner']	['_owner']	[]	[]	1

Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
initializer()	internal	['_initialized', '_initializing', 'this']	['_initialized', '_initializing']	['require(bool,string)']	['AddressUpgradeable.isContract(address(this))']	3
reinitializer(uint8)	internal	['_initialized', '_initializing']	['_initialized', '_initializing']	['require(bool,string)']	[]	1
onlyInitializing()	internal	['_initializing']	[]	['require(bool,string)']	[]	1
onlyOwner()	internal	[]	[]	['_checkOwner']	[]	1

Contract IERC165

- Contract vars: []
- Inheritance: []

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
supportsInterface(bytes4)	external	[]	[]	[]	[]	[]	2
Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity	

Contract IERC721

- Contract vars: []
- Inheritance: ['IERC165']

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
supportsInterface(bytes4)	external	[]	[]	[]	[]	[]	2
balanceOf(address)	external	[]	[]	[]	[]	[]	2
ownerOf(uint256)	external	[]	[]	[]	[]	[]	2
safeTransferFrom(address,address,uint256,bytes)	external	[]	[]	[]	[]	[]	2
safeTransferFrom(address,address,uint256)	external	[]	[]	[]	[]	[]	2
transferFrom(address,address,uint256)	external	[]	[]	[]	[]	[]	2
approve(address,uint256)	external	[]	[]	[]	[]	[]	2
setApprovalForAll(address,bool)	external	[]	[]	[]	[]	[]	2
getApproved(uint256)	external	[]	[]	[]	[]	[]	2
isApprovedForAll(address,address)	external	[]	[]	[]	[]	[]	2
Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity	

Contract IERC721Metadata

- Contract vars: []
- Inheritance: ['IERC721', 'IERC165']

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
balanceOf(address)	external	[]	[]	[]	[]	[]	2
ownerOf(uint256)	external	[]	[]	[]	[]	[]	2
safeTransferFrom(address,address,uint256,bytes)	external	[]	[]	[]	[]	[]	2
safeTransferFrom(address,address,uint256)	external	[]	[]	[]	[]	[]	2
transferFrom(address,address,uint256)	external	[]	[]	[]	[]	[]	2
approve(address,uint256)	external	[]	[]	[]	[]	[]	2
setApprovalForAll(address,bool)	external	[]	[]	[]	[]	[]	2
getApproved(uint256)	external	[]	[]	[]	[]	[]	2
isApprovedForAll(address,address)	external	[]	[]	[]	[]	[]	2
supportsInterface(bytes4)	external	[]	[]	[]	[]	[]	2
name()	external	[]	[]	[]	[]	[]	2
symbol()	external	[]	[]	[]	[]	[]	2
tokenURI(uint256)	external	[]	[]	[]	[]	[]	2
Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity	

Contract IERC721Receiver

- Contract vars: []
- Inheritance:: []

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
onERC721Received(address,address,uint256,bytes)	external	[]	[]	[]	[]	[]	2
Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity	

Contract Address

- Contract vars: []
- Inheritance:: []

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
isContract(address)	internal	[]	[]	[]	['code(address)']	[]	1
sendValue(address,uint256)	internal	[]	['this']	[]	['balance(address)', 'require(bool,string)']	['recipient.call{value: amount}{}']	1
functionCall(address,bytes)	internal	[]	[]	[]	['functionCall']	[]	1
functionCall(address,bytes,string)	internal	[]	[]	[]	['functionCallWithValue']	[]	1
functionCallWithValue(address,bytes,uint256)	internal	[]	[]	[]	['functionCallWithValue']	[]	1
functionCallWithValue(address,bytes,uint256,string)	internal	[]	['this']	[]	['balance(address)', 'isContract']	['target.call{value: value}(data)']	1
					['require(bool,string)', 'verifyCallResult']		
functionStaticCall(address,bytes)	internal	[]	[]	[]	['functionStaticCall']	[]	1
functionStaticCall(address,bytes,string)	internal	[]	[]	[]	['isContract', 'require(bool,string)']	['target.staticcall(data)']	1
					['verifyCallResult']		
functionDelegateCall(address,bytes)	internal	[]	[]	[]	['functionDelegateCall']	[]	1
functionDelegateCall(address,bytes,string)	internal	[]	[]	[]	['isContract', 'require(bool,string)']	['target.delegatecall(data)']	1
					['verifyCallResult']		
verifyCallResult(bool,bytes,string)	internal	[]	[]	[]	['mload(uint256)', 'revert(string)']	[]	2
					['revert(uint256,uint256)']		
Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity	

Contract Context

- Contract vars: []
- Inheritance:: []

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
_msgSender()	internal	[]	['msg.sender']	[]	[]	[]	1
_msgData()	internal	[]	['msg.data']	[]	[]	[]	1
Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity	

Contract ERC165

- Contract vars: []

- Inheritance:: ['IERC165']

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
supportsInterface(bytes4)	external	[]	[]	[]	[]	[]	2
supportsInterface(bytes4)	public	[]	[]	[]	[type0]	[]	1

Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
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Contract Strings

- Contract vars: ['_HEX_SYMBOLS', '_ADDRESS_LENGTH']
- Inheritance:: []

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
toString(uint256)	internal	[]	[]	[]	[]	[new bytes(digits)]	3
toHexString(uint256)	internal	[]	[]	[]	[toHexString]	[]	2
toHexString(uint256,uint256)	internal	[]	['_HEX_SYMBOLS']	[]	[require(bool,string)]	[new bytes(2 * length + 2)]	2
toHexString(address)	internal	[]	['_ADDRESS_LENGTH']	[]	[toHexString]	[]	1
slitherConstructorConstantVariables()	internal	[]	[]	['_ADDRESS_LENGTH', '_HEX_SYMBOLS']	[]	[]	1

Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
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Contract ERC721

- Contract vars: ['_name', '_symbol', '_owners', '_balances', '_tokenApprovals', '_operatorApprovals']
- Inheritance:: ['IERC721Metadata', 'IERC721', 'ERC165', 'IERC165', 'Context']

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
name()	external	[]	[]	[]	[]	[]	2
symbol()	external	[]	[]	[]	[]	[]	2
tokenURI(uint256)	external	[]	[]	[]	[]	[]	2
balanceOf(address)	external	[]	[]	[]	[]	[]	2
ownerOf(uint256)	external	[]	[]	[]	[]	[]	2
safeTransferFrom(address,address,uint256,bytes)	external	[]	[]	[]	[]	[]	2
safeTransferFrom(address,address,uint256)	external	[]	[]	[]	[]	[]	2
transferFrom(address,address,uint256)	external	[]	[]	[]	[]	[]	2
approve(address,uint256)	external	[]	[]	[]	[]	[]	2
setApprovalForAll(address,bool)	external	[]	[]	[]	[]	[]	2
getApproved(uint256)	external	[]	[]	[]	[]	[]	2
isApprovedForAll(address,address)	external	[]	[]	[]	[]	[]	2
supportsInterface(bytes4)	external	[]	[]	[]	[]	[]	2
supportsInterface(bytes4)	public	[]	[]	[]	[type0]	[]	1
_msgSender()	internal	[]	[msg.sender]	[]	[]	[]	1
_msgData()	internal	[]	[msg.data]	[]	[]	[]	1
constructor(string,string)	public	[]	[]	['_name', '_symbol']	[]	[]	1
supportsInterface(bytes4)	public	[]	[]	[]	[supportsInterface, type0]	[]	1
balanceOf(address)	public	[]	['_balances']	[]	[require(bool,string)]	[]	1
ownerOf(uint256)	public	[]	['_owners']	[]	[require(bool,string)]	[]	1
name()	public	[]	['_name']	[]	[]	[]	1
symbol()	public	[]	['_symbol']	[]	[]	[]	1
tokenURI(uint256)	public	[]	[]	[]	['_baseURI', '_requireMinted']	[abi.encodePacked(baseURI,tokenid.toString()), tokenid.toString()]	1
					[abi.encodePacked()]		
_baseURI()	internal	[]	[]	[]	[]	[]	1

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
approve(address,uint256)	public	[]	[]	['_tokenApprovals']	['ownerOf']	[ERC721.ownerOf(tokenid)]	1
					['isApprovedForAll', 'ownerOf']		
					['require(bool,string)']		
getApproved(uint256)	public	[]	['_tokenApprovals']	[]	['_requireMinted']	[]	1
setApprovalForAll(address,bool)	public	[]	[]	[]	['_msgSender', '_setApprovalForAll']	[]	1
isApprovedForAll(address,address)	public	[]	['_operatorApprovals']	[]	[]	[]	1
transferFrom(address,address,uint256)	public	[]	[]	[]	['_isApprovedOrOwner', '_msgSender']	[]	1
					['_transfer', 'require(bool,string)']		
safeTransferFrom(address,address,uint256)	public	[]	[]	[]	['safeTransferFrom']	[]	1
safeTransferFrom(address,address,uint256,bytes)	public	[]	[]	[]	['_isApprovedOrOwner', '_msgSender']	[]	1
					['_safeTransfer', 'require(bool,string)']		
_safeTransfer(address,address,uint256,bytes)	internal	[]	[]	[]	['_checkOnERC721Received', '_transfer']	[]	1
					['require(bool,string)']		
_exists(uint256)	internal	[]	['_owners']	[]	[]	[]	1
_isApprovedOrOwner(address,uint256)	internal	[]	[]	[]	['getApproved', 'isApprovedForAll']	[ERC721.ownerOf(tokenid)]	1
					['ownerOf']		
_safeMint(address,uint256)	internal	[]	[]	[]	['_safeMint']	[]	1
_safeMint(address,uint256,bytes)	internal	[]	[]	[]	['_checkOnERC721Received', '_mint']	[]	1
					['require(bool,string)']		
_mint(address,uint256)	internal	[]	['_balances']	['_balances', '_owners']	['_afterTokenTransfer', '_beforeTokenTransfer']	['_exists', 'require(bool,string)']	1
					['_transfer', 'require(bool,string)']		
_burn(uint256)	internal	[]	['_balances', '_owners']	['_balances', '_owners']	['_afterTokenTransfer', '_approve']	[ERC721.ownerOf(tokenid)]	1
					['_beforeTokenTransfer', 'ownerOf']		
_transfer(address,address,uint256)	internal	[]	['_balances']	['_balances', '_owners']	['_afterTokenTransfer', '_approve']	[ERC721.ownerOf(tokenid)]	1
					['_beforeTokenTransfer', 'ownerOf']		
					['require(bool,string)']		
_approve(address,uint256)	internal	[]	[]	['_tokenApprovals']	['ownerOf']	[ERC721.ownerOf(tokenid)]	1
_setApprovalForAll(address,address,bool)	internal	[]	[]	['_operatorApprovals']	['require(bool,string)']	[]	1
_requireMinted(uint256)	internal	[]	[]	[]	['_exists', 'require(bool,string)']	[]	1
_checkOnERC721Received(address,address,uint256,bytes)	private	[]	[]	[]	['_msgSender', 'mload(uint256)']	[IERC721Receiver(to).onERC721Received(_msgSender(),from,tokenid,data); to.isContract()]	3
					['revert(string)', 'revert(uint256,uint256)']		
_beforeTokenTransfer(address,address,uint256)	internal	[]	[]	[]	[]	[]	1
_afterTokenTransfer(address,address,uint256)	internal	[]	[]	[]	[]	[]	1
Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity	

Contract ReentrancyGuard

- Contract vars: ['_NOT_ENTERED', '_ENTERED', '_status']
- Inheritance: []

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
constructor()	internal	[]	['_NOT_ENTERED']	['_status']	[]	[]	1
slitherConstructorConstantVariables()	internal	[]	[]	['_ENTERED', '_NOT_ENTERED']	[]	[]	1
Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity	
nonReentrant()	internal	['_ENTERED', '_NOT_ENTERED']	['_status']	['require(bool,string)']	[]	1	
		['_status']					

Contract Counters

- Contract vars: []

- Inheritance:: []

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
current(Counters.Counter)	internal	[]	[]	[]	[]	[]	1
increment(Counters.Counter)	internal	[]	[]	[]	[]	[]	1
decrement(Counters.Counter)	internal	[]	[]	[]	['require(bool,string)']	[]	1
reset(Counters.Counter)	internal	[]	[]	[]	[]	[]	1

Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
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Contract BirdsofSpaceMarketPlaceV1

- Contract vars: ['itemIds', '_itemsSold', 'itemId', 'idToMarketItem']
- Inheritance:: ['OwnableUpgradeable', 'ContextUpgradeable', 'Initializable', 'ReentrancyGuard']

Function	Visibility	Modifiers	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
__Ownable_init()	internal	['onlyInitializing']	[]	[]	['___Ownable_init_unchained', 'onlyInitializing']	[]	1
__Ownable_init_unchained()	internal	['onlyInitializing']	[]	[]	['_msgSender', '_transferOwnership']	[]	1
					['onlyInitializing']	[]	
owner()	public	[]	['_owner']	[]	[]	[]	1
_checkOwner()	internal	[]	[]	[]	['_msgSender', 'owner']	[]	1
					['require(bool,string)']	[]	
renounceOwnership()	public	['onlyOwner']	[]	[]	['_transferOwnership', 'onlyOwner']	[]	1
transferOwnership(address)	public	['onlyOwner']	[]	[]	['_transferOwnership', 'onlyOwner']	[]	1
					['require(bool,string)']	[]	
_transferOwnership(address)	internal	[]	['_owner']	['_owner']	[]	[]	1
__Context_init()	internal	['onlyInitializing']	[]	[]	['onlyInitializing']	[]	1
__Context_init_unchained()	internal	['onlyInitializing']	[]	[]	['onlyInitializing']	[]	1
_msgSender()	internal	[]	['msg.sender']	[]	[]	[]	1
_msgData()	internal	[]	['msg.data']	[]	[]	[]	1
_disableInitializers()	internal	[]	['_initialized', '_initializing']	['_initialized']	['require(bool,string)']	[]	2
constructor()	internal	[]	['_NOT_ENTERED']	['_status']	[]	[]	1
constructor()	public	[]	[]	[]	['_disableInitializers']	[]	1
initialize()	public	['initializer']	[]	[]	['___Ownable_init', 'initializer']	[]	1
createMarketItem(address,uint256,uint256)	public	['nonReentrant']	['itemId', 'itemIds']	['idToMarketItem', 'itemId']	['nonReentrant', 'require(bool,string)']	['IERC721(nftContract).transferFrom(msg.sender,address(this),tokenId)', 'itemIds.increment()', 'itemIds.current()', 'new BirdsofSpaceMarketPlaceV1.MarketItem']	1
createMarketSale(address,uint256)	public	['nonReentrant']	['_itemsSold', 'idToMarketItem']	['idToMarketItem']	['nonReentrant', 'require(bool,string)']	['IERC721(nftContract).transferFrom(address(this),msg.sender,tokenId)', '_itemsSold.increment()', 'idToMarketItem[_itemId].seller.transfer(msg.value)']	1
			['msg.sender', 'this']			[]	
fetchMarketItems()	public	[]	['_itemsSold', 'idToMarketItem']	[]	[]	['_itemsSold.current()', 'itemIds.current()', 'itemIds.current()', 'new BirdsofSpaceMarketPlaceV1.MarketItem']	3
			['itemIds']			[]	
withdraw()	public	['onlyOwner']	['this']	[]	['balance(address)', 'onlyOwner']	['address(owner()).call(value: address(this).balance){}', 'owner', 'require(bool)']	1

Modifiers	Visibility	Read	Write	Internal Calls	External Calls	Cyclomatic Complexity
onlyOwner()	internal	[]	[]	['_checkOwner']	[]	1
initializer()	internal	['_initialized', '_initializing']	['_initialized', '_initializing']	['require(bool,string)']	['AddressUpgradeable.isContract(address(this))']	3
		['this']				
reinitializer(uint8)	internal	['_initialized', '_initializing']	['_initialized', '_initializing']	['require(bool,string)']	[]	1
onlyInitializing()	internal	['_initializing']	[]	['require(bool,string)']	[]	1
nonReentrant()	internal	['_ENTERED', '_NOT_ENTERED']	['_status']	['require(bool,string)']	[]	1
		['_status']				