

Web3 security easier than ever



Near Genesis
Smart contract audit report



## Table of contents

Table of contents	2
Methodology	3
Structure of contract internal.rs	4
Structure of contract lib.rs	5
Structure of contract project.rs	7
Structure of contract errors.rs	9
Structure of contract utils.rs	10
Verification check sums	11
Project evaluation	12



### Methodology

- Best code practices
- ERC20/BEP20 compliance (if applicable)
- FA2 compliance (if applicable)
- Logical bugs
- General Denial Of Service(DOS)
- Locked ether
- Private data leaks
- Using components with known vulns
- Weak PRNG
- Unused vars
- Unchecked call return method
- Code with no effects
- Pool Asset Security (backdoors in the underlying ERC-20)
- Function visibility
- Use of deprecated functions
- Authorization issues
- Re-entrancy
- Arithmetic Over/Under Flows

- Hidden Malicious Code
- External Contract Referencing
- Short Address/Parameter Attack
- Race Conditions/Front Running
- Uninitialized Storage Pointers
- Floating Points and Precision
- Signatures Replay



internal.rs

#### Contract methods analysis:

```
internal_ft_transfer(
   &mut self,
   project_id: u64,
   account_id: &AccountId,
   token_account_id:
   &AccountId,
   amount: Balance,
   is_in_token: bool
)
```

Vulnerabilities not detected

```
after_ft_transfer(
   &mut self,
   project_id: u64,
   account_id: AccountId,
   token_account_id:
   AccountId,
   amount: WrappedBalance,
   is_in_token: bool
)
```

Vulnerabilities not detected

```
after_is_approved(
   &mut self,
   #[callback] is_approved:
   bool,
   account_id: AccountId,
   attached_deposit:
   WrappedBalance
)
```

Vulnerabilities not detected

```
ft_on_transfer(
   &mut self,
   sender_id: ValidAccountId,
   amount: U128,
   msg: String
)
```



lib.rs

#### Contract methods analysis:

```
new(
   astro_id: ValidAccountId,
   listing_fee:
   WrappedBalance,
   astrodao_fee:
   WrappedBalance
)
```

Vulnerabilities not detected

assert\_astro(&self)

Vulnerabilities not detected

append\_admin\_account\_id(&mut
self, admin\_account\_id:
AccountId)

Vulnerabilities not detected

get\_admin\_account\_ids(&self)

Vulnerabilities not detected

remove\_token\_account\_id(&mut
self, token\_account\_id:
AccountId)

Vulnerabilities not detected

assert\_owner(&self)

Vulnerabilities not detected

assert\_admin(&self)

Vulnerabilities not detected

remove\_admin\_account\_id(&mut
self, admin\_account\_id:
AccountId)

Vulnerabilities not detected

append\_token\_account\_id(&mut
self, token\_account\_id:
AccountId)

Vulnerabilities not detected

get\_token\_account\_ids(&self)



set\_astrodao\_account(&mut
self, astro\_id:
ValidAccountId)

Vulnerabilities not detected

get\_astrodao\_account(&self)

Vulnerabilities not detected

set\_astrodao\_fee(&mut self,
astrodao\_fee:
WrappedBalance)

Vulnerabilities not detected

get\_astrodao\_fee(&self)

Vulnerabilities not detected

set\_listing\_fee(&mut self,
listing\_fee: WrappedBalance)

Vulnerabilities not detected

get\_listing\_fee(&self)



project.rs

#### Contract methods analysis:

assert\_valid\_not\_started(&se
lf)

Vulnerabilities not detected

into\_output(self,
project\_id: u64)

Vulnerabilities not detected

is\_ended(&self)

Vulnerabilities not detected

internal\_get\_project(&self,
project\_id: u64)

Vulnerabilities not detected

update\_project(&mut self,
project\_id: u64,
project\_input: ProjectInput)

Vulnerabilities not detected

unpublish\_project(&mut self,
project\_id: u64)

Vulnerabilities not detected

from\_input(project\_id: u64,
project\_input: ProjectInput,
owner\_id: AccountId)

Vulnerabilities not detected

is\_started(&self)

Vulnerabilities not detected

internal\_unwrap\_project(&se
lf, project\_id: u64)

Vulnerabilities not detected

register\_project(&mut self,
project\_input: ProjectInput)

Vulnerabilities not detected

publish\_project(&mut self,
project\_id: u64)

Vulnerabilities not detected

get\_project(&self,
project\_id: u64)



get\_projects(&self,
from\_index: Option<u64>,
limit: Option<u64>)

Vulnerabilities not detected

get\_num\_balances(&self,
project\_id: u64, account\_id:
ValidAccountId)

Vulnerabilities not detected

project\_deposit\_in\_token(&
mut self, project\_id: u64,
amount: WrappedBalance)

Vulnerabilities not detected

project\_withdraw\_in\_token\_an
d\_astrodao(&mut self,
project\_id: u64)

Vulnerabilities not detected

project\_withdraw\_remaining\_o
ut\_token(&mut self,
project\_id: u64)

Vulnerabilities not detected

get\_projects\_by\_id(&self,
project\_ids: Vec<u64>)

Vulnerabilities not detected

remove\_project(&mut self,
project\_id: u64)

Vulnerabilities not detected

project\_withdraw\_in\_token(&
mut self, project\_id: u64,
amount:
Option<WrappedBalance>)

Vulnerabilities not detected

project\_withdraw\_out\_token(&
mut self, project\_id: u64,
amount:
Option<WrappedBalance>)



errors.rs

Contract methods analysis	Contract	methods	analysis
---------------------------	----------	---------	----------



utils.rs

Contract methods analysis	ethods analysis	method	Contract
---------------------------	-----------------	--------	----------



## Verification check sums

Contract name	Bytecode hash(SHA 256)	
internal.rs	4c0c08091da1ba0bbeceaf9a8380efe4ce0609150c4a4 281dd26435e443545c6	
lib.rs	4ead59cf12911f5107a07ae4608eddd31ae2dc38e1fb4 5c5ab68c0ad6420ae7f	
project.rs	1cc4daf86365794a07dc0f89deeba0151ef420c65b6b7 73cb8b7aac482887673	
errors.rs	1a36a3f571459fcbde0b1ba5eb622c14ac3a80364e354 4c74e933ce1e955d6f2	
utils.rs	99f9aa590bc3fcd4285f0a0511a2a1633b1e047f076d6 7dcf4170ab0a66383e6	
Link to source code: <a href="https://github.com/NearGenesis/launchpad-smartcontract">https://github.com/NearGenesis/launchpad-smartcontract</a>		



## Project evaluation



10/10

# Get in touch 💥





@smartstatetech



**@smartstate** 



**@SmartStateAudit** 



**@smartstatetech** 



@smartstate.tech

View this report on Smartstate.tech

info@smartstate.tech smartstate.tech

