

## Hack DLT: Project Submission

# CoInteract

*Contract interaction Web Tool*

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# ColInteract

## Motivation

*While building ethereum project on DL Unify, we found we needed a devtool to interact with contract through an user interface at any point in development lifecycle.*

### Benefits:

- ❖ UI based interaction with smart contract to any network.
- ❖ Use mnemonic keys to sign the contract call or use metamask.
- ❖ Load contract via:
  - ABI
  - Compile JSON File
  - DLTestNet Explorer
- ❖ Execute contract by passing arguments if req.
- ❖ Side Logs pane on the same page for network activity.
  - No need to open multiple windows.
  - Productivity boost.
- ❖ You can load contract and interact with it at any point of dev lifecycle.

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## Tools and Services Used

- ❖ DL Gateway Ethereum project creation.
- ❖ Metamask Integration.
- ❖ DL Testnet Explorer.
- ❖ DL Testnet Network.
- ❖ Remix

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## Snapshot

← → ↺ 🌐 localhost:3000

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Connection

🦊 MetaMask

Provider: Connected  
Signer: Connected  
Network: unknown (2012018)  
Address: 0x28CbD506d22B28434815b5...

Custom Signer (optional)

Private Key / Mnemonic:  
bomb crumble plunge student unfolc

Connect

Contracts:

ERC721

HelloWorldLive

Add Contract

ERC721

Contract Address

Custom:  
0x7Aa9F68a5a79E90d5e4f8b081dbAb7E11dAf8619

From artifact @ network unknown (2012018):  
No address found in artifact

Selected contract address:  
0x7Aa9F68a5a79E90d5e4f8b081dbAb7E11dAf8619

Log

Clear

[09:53:04] Hello\_2  
[09:53:22] tx.hash: 0xdf9700c92d7a5a0d852dcdcf37a127c6b6e37785eab19a1021fcfa7d1218e4bfe  
[09:53:33] tx mined: 0xdf9700c92d7a5a0d852dcdcf37a127c6b6e37785eab19a1021fcfa7d1218e4bfe  
[09:53:43] hello\_3  
[09:54:15] Error: Internal JSON-RPC error.

Functions (arity):

approve(2)  
balanceOf(1)  
baseURI(0)  
getApproved(1)  
isApprovedForAll(2)  
**name(0)**  
ownerOf(1)  
safeTransferFrom(3)  
safeTransferFrom(4)  
setApprovalForAll(2)  
supportsInterface(1)  
symbol(0)  
tokenByIndex(1)  
tokenOfOwnerByIndex(2)  
tokenURI(1)  
totalSupply(0)

Function info

Name:  
State Mutability:  
Outputs:  
{0}string

name  
view

Call function

Submit Encode ☐ custom gas limit

Path: undefined

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Thank you !!