TESTING OF THE MARKETPLACE SMART CONTRACT

HASKELL VERSION

-- Ange is a seller sampleSeller :: Seller

sampleSeller = "039f51d0c3f33b9d4c78d4492548d62fdf116f1dbbdfa5e0d6d900dd"

-- robert is the buyer sampleBuyer :: Buyer

sampleBuyer = "53b4939fa0fef0b160ee80334f179d4251d59e064876ae030749ef66"

-- MarketPlaceOwner ----Cyprien

sampleMarketplaceOwner :: MarketplaceOwner

sampleMarketplaceOwner =

"c1272b677c5d0a894f5dd5472711aab5ca59d856f55d12157670c930"

NFT:

nftSymbol: IVOCOINS

nftImage: ipfs://QmUNt1Ziv2915gN23SVtAswKZQY9cPtMGmcNzgEQq7Pxh9

Displaying nft-marketplace

guess@NYC:~/emurgo-test/jambhala\$ j cli -l

Build profile: -w ghc-8.10.7 -O1

In order, the following will be built (use -v for more details):

- jambhala-0.5.0.0 (lib) (file src/Contracts/MarketPlace.hs changed)
- jambhala-0.5.0.0 (exe:cli) (dependency rebuilt)

Preprocessing library for jambhala-0.5.0.0..

Building library for jambhala-0.5.0.0..

[29 of 30] Compiling Contracts. Market Place (src/Contracts/Market Place.hs,

 $/home/guess/emurgo-test/jambhala/dist-newstyle/build/x86_64-linux/ghc-8.10.7/jambhala-linux/ghc-9.10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7/jambhala-10.7$

0.5.0.0/build/Contracts/MarketPlace.o, /home/guess/emurgo-test/jambhala/dist-

 $newstyle/build/x86_64-linux/ghc-8.10.7/jambhala-0.5.0.0/build/Contracts/MarketPlace.dyn_o\,)$

Preprocessing executable 'cli' for jambhala-0.5.0.0..

Building executable 'cli' for jambhala-0.5.0.0..

Linking /home/guess/emurgo-test/jambhala/dist-newstyle/build/x86_64-linux/ghc-

8.10.7/jambhala-0.5.0.0/x/cli/build/cli/cli ...

Available Contracts:

auction

burn

custom-typed

forward-minting

forward-minting-policy

free-minting

gift

guessing

nft

nft-marketplace

param-vesting

signed-minting

```
simple-typed
simple-untyped
state-counter
vesting
```

Write and export nft-marketplace

```
guess@NYC:~/emurgo-test/jambhala$ j cli -w nft-marketplace
File '/home/guess/emurgo-test/jambhala/cardano-cli-guru/assets/scripts/plutus/nft-
marketplace.plutus' already exists. Do you want to overwrite it? (Y/N): Y
Wrote script to '/home/guess/emurgo-test/jambhala/cardano-cli-guru/assets/scripts/plutus/nft-
marketplace.plutus'
File '/home/guess/emurgo-test/jambhala/cardano-cli-guru/assets/addr/nft-marketplace.addr'
already exists. Do you want to overwrite it? (Y/N): Y
Wrote address 'addr_test1wg4rtdmealsck78y69x2w5sjne3vs4uac6nwf658fszyv3cj0p5c4' to
```

'/home/guess/emurgo-test/jambhala/cardano-cli-guru/assets/addr/nft-marketplace.addr'
File '/home/guess/emurgo-test/jambhala/cardano-cli-guru/assets/data/lockedNFT1.json'
already exists. Do you want to overwrite it? (Y/N): Y

Wrote data to '/home/guess/emurgo-test/jambhala/cardano-cli-guru/assets/data/lockedNFT1.json':

```
},
{
    "bytes": "49564f434f494e53"
},
{
    "bytes": "039f51d0c3f33b9d4c78d4492548d62fdf116f1dbbdfa5e0d6d900dd"
},
{
    "int": 1000000
}
}
```

File '/home/guess/emurgo-test/jambhala/cardano-cli-guru/assets/data/unlockRedeemer.json' already exists. Do you want to overwrite it? (Y/N): Y

```
Wrote data to '/home/guess/emurgo-test/jambhala/cardano-cli-
guru/assets/data/unlockRedeemer.json':
  "constructor": 1,
  "fields": []
}
File '/home/guess/emurgo-test/jambhala/cardano-cli-guru/assets/data/lockRedeemer.json'
already exists. Do you want to overwrite it? (Y/N): Y
Wrote data to '/home/guess/emurgo-test/jambhala/cardano-cli-
guru/assets/data/lockRedeemer.json':
  "constructor": 0,
  "fields": []
Test after unlocking
guess@NYC:~/emurgo-test/jambhala$ j cli -t nft-marketplace
Build profile: -w ghc-8.10.7 -O1
In order, the following will be built (use -v for more details):
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- jambhala-0.5.0.0 (exe:cli) (dependency rebuilt)
Preprocessing library for jambhala-0.5.0.0..
Building library for jambhala-0.5.0.0..
[29 of 30] Compiling Contracts. Market Place (src/Contracts/Market Place.hs,
/home/guess/emurgo-test/jambhala/dist-newstyle/build/x86_64-linux/ghc-8.10.7/jambhala-
0.5.0.0/build/Contracts/MarketPlace.o, /home/guess/emurgo-test/jambhala/dist-
newstyle/build/x86_64-linux/ghc-8.10.7/jambhala-0.5.0.0/build/Contracts/MarketPlace.dyn_o)
[30 of 30] Compiling Contracts
                                (src/Contracts.hs, /home/guess/emurgo-test/jambhala/dist-
newstyle/build/x86_64-linux/ghc-8.10.7/jambhala-0.5.0.0/build/Contracts.o,
/home/guess/emurgo-test/jambhala/dist-newstyle/build/x86_64-linux/ghc-8.10.7/jambhala-
0.5.0.0/build/Contracts.dyn_o) [Contracts.MarketPlace changed]
Preprocessing executable 'cli' for jambhala-0.5.0.0..
Building executable 'cli' for jambhala-0.5.0.0..
[1 of 1] Compiling Main
                            (j-cli/Main.hs, /home/guess/emurgo-test/jambhala/dist-
newstyle/build/x86_64-linux/ghc-8.10.7/jambhala-0.5.0.0/x/cli/build/cli/cli-tmp/Main.o)
[Contracts changed]
Linking /home/guess/emurgo-test/jambhala/dist-newstyle/build/x86_64-linux/ghc-
8.10.7/jambhala-0.5.0.0/x/cli/build/cli/cli ...
[INFO] Slot 0: TxnValidate
c87be2c2d75bf26a854275b142abe178c829cb2e81da35e5f8cd522d4f0dde84[]
[INFO] Slot 1: 00000000-0000-4000-8000-00000000000 {Wallet W[1]}:
        Contract instance started
[INFO] Slot 1: 00000000-0000-4000-8000-00000000001 {Wallet W[2]}:
        Contract instance started
[INFO] Slot 1: 00000000-0000-4000-8000-00000000002 {Wallet W[3]}:
        Contract instance started
[INFO] Slot 1: 00000000-0000-4000-8000-00000000001 {Wallet W[2]}:
```

Receive endpoint call on 'grab' for Object (fromList [("contents", Array [Object (fromList [("getEndpointDescription",String "grab")]),Object (fromList [("unEndpointValue",Object (fromList [("unTokenName",String "NFT1")]))]),("tag",String "ExposeEndpointResp")]) [INFO] Slot 1: W[2]: Balancing an unbalanced transaction: Tx ba466e239054bec1a866af7224adf4acef08111ed8a09da113e2335a841e778c: inputs: reference inputs: collateral inputs: outputs: - 3000000 lovelace addressed to PubKeyCredential: c1272b677c5d0a894f5dd5472711aab5ca59d856f55d12157670c930 (no staking credential) - 3000000 lovelace addressed to PubKeyCredential: 039f51d0c3f33b9d4c78d4492548d62fdf116f1dbbdfa5e0d6d900dd (no staking credential) mint: fee: 0 lovelace validity range: Interval {ivFrom = LowerBound NegInf True, ivTo = UpperBound PosInf True} data: redeemers: Utxo index: [INFO] Slot 1: W[2]: Finished balancing: Tx 1e28cd00f9df1bd57787435a474f7aabad8dae19845b47a03ff982a1096834b2: - c87be2c2d75bf26a854275b142abe178c829cb2e81da35e5f8cd522d4f0dde84!10 reference inputs: collateral inputs: outputs: - 3000000 lovelace addressed to PubKeyCredential: c1272b677c5d0a894f5dd5472711aab5ca59d856f55d12157670c930 (no staking credential) - 3000000 lovelace addressed to PubKeyCredential: 039f51d0c3f33b9d4c78d4492548d62fdf116f1dbbdfa5e0d6d900dd (no staking credential) - 3832739 lovelace addressed to PubKeyCredential: 80a4f45b56b88d1139da23bc4c3c75ec6d32943c087f250b86193ca7 (no staking credential) mint. fee: 167261 lovelace validity range: Interval {ivFrom = LowerBound NegInf True, ivTo = UpperBound PosInf True} data: redeemers: [INFO] Slot 1: W[2]: Signing tx: 1e28cd00f9df1bd57787435a474f7aabad8dae19845b47a03ff982a1096834b2 [INFO] Slot 1: W[2]: Submitting tx: 1e28cd00f9df1bd57787435a474f7aabad8dae19845b47a03ff982a1096834b2 [INFO] Slot 1: W[2]: TxSubmit: 1e28cd00f9df1bd57787435a474f7aabad8dae19845b47a03ff982a1096834b2 [INFO] Slot 1: TxnValidate

1e28cd00f9df1bd57787435a474f7aabad8dae19845b47a03ff982a1096834b2 []

[INFO] Slot 2: 00000000-0000-4000-8000-00000000001 {Wallet W[2]}:

Contract log: String "Unlocked NFT from contract"

Final balances

Wallet 2: 93832739 lovelace Wallet 1: 100000000 lovelace Wallet 3: 100000000 lovelace

PubKeyHash 039f51d0c3f33b9d4c78d4492548d62fdf116f1dbbdfa5e0d6d900dd: 3000000

lovelace

PubKeyHash c1272b677c5d0a894f5dd5472711aab5ca59d856f55d12157670c930: 3000000

lovelace

AIKEN TESTING

guess@NYC:~/emurgo-test/jambhala/jambhalaiken\$ aiken check -m marketplace Compiling aiken-lang/stdlib 1.7.0 (/home/guess/emurgo-test/jambhala/jambhalaiken/build/packages/aiken-lang-stdlib)

Compiling jambhala/jambhalaiken 0.0.0 (/home/guess/emurgo-test/jambhala/jambhalaiken) Summary 0 errors, 0 warnings