Stake Contract

- A doctor registers by giving NPI no. as a profile url in action regbydoctor
- eosaidchains self adds into admins list by action compaddadmin
- · eosaidchains then as a admin verifies new doctors
- Patient stakes "500 TRPM" tokens to get rehab from doctor.
- The assigned doctor startrehab & set the lock period of 30 days.
- The Dr. can endrehab by setting the status as "cured" or "caught".
- If cured, then Dr. gets 5% & remaining is returned back to the patient.
- Else if caught, then Dr. gets 100% tokens & the patient loses entirely.
- A doctor can be removed from the admins list when the no. is 5

About

- contract name tropiumstake
- contract's account name trpm111stake
- action
- regbydoctor
- verify
- blacklist
- compaddadmin
- addadmin [Inline action]
- remadmin [Inline action]
- stake [notify action]
- startrehab
- endrehab
- unstake
- sendalert [Inline action]
- table
- stakewallet
- admins
- auth

Compile

```
$ eosio-cpp tropiumstake.cpp -o tropiumstake.wasm
Warning, empty ricardian clause file
Warning, empty ricardian clause file
Warning, action <setadmins> does not have a ricardian contract
Warning, action <addadmin> does not have a ricardian contract
Warning, action <remadmin> does not have a ricardian contract
Warning, action <clradmins> does not have a ricardian contract
Warning, action <startrehab> does not have a ricardian contract
Warning, action <endrehab> does not have a ricardian contract
Warning, action <unstake> does not have a ricardian contract
Warning, action <setadmins> does not have a ricardian contract
Warning, action <addadmin> does not have a ricardian contract
Warning, action <remadmin> does not have a ricardian contract
Warning, action <clradmins> does not have a ricardian contract
Warning, action <startrehab> does not have a ricardian contract
Warning, action <endrehab> does not have a ricardian contract
Warning, action <unstake> does not have a ricardian contract
```

Deploy

Deploy contract

```
$ cleost set contract trpm111stake ./
Reading WASM from
/mnt/f/Coding/github_repos/eosio_tropium_contracts/tropiumstake/tropiumsta
ke.wasm...
Publishing contract...
executed transaction:
140b1b3909e339087e107735210e912f34d915e92fea308277981bda2a831f41 11512
bytes 1027 us
         eosio <= eosio::setcode
{"account":"trpm111stake","vmtype":0,"vmversion":0,"code":"0061736d0100000
001c6011f60000060017e00600...
        eosio <= eosio::setabi
461646d696e000306646f63746...
warning: transaction executed locally, but may not be confirmed by the
network yet
```

Adding eosio.code to permissions (for inline actions)

```
$ cleost set account permission trpm111stake active --add-code
executed transaction:
2b070bd3086c310045e56ecae58674cc734d889aa5836c3ff1c381b21dcdc61b 184
bytes 149 us
# eosio <= eosio::updateauth
{"account":"trpm111stake","permission":"active","parent":"owner","auth":
{"threshold":1,"keys":[{"key...
warning: transaction executed locally, but may not be confirmed by the
network yet ]</pre>
```

Testing

Action - regbydoctor

A doctor trpmdoc11111 registers

```
$ cleost push action trpm111stake regbydoctor '["trpmdoc11111",
"http://www.hipaaspace.com/medical_billing/coding/npi/codes/npi_1891894531
.aspx"]' -p trpmdoc11111@active
executed transaction:
aa3f824fa95f52a48305d9f3886ab58935c82a4ac6e1c83cbd443a5b73b301e9 184
bytes 317 us
# trpm111stake <= trpm111stake::regbydoctor
{"doctor":"trpmdoc11111","profile_url":"http://www.hipaaspace.com/medical_billing/coding/npi/codes/n...
warning: transaction executed locally, but may not be confirmed by the network yet ]</pre>
```

view the table

```
$ cleost get table trpm111stake trpmdoc11111 auth --show-payer
  "rows": [{
      "data": {
        "doctor": "trpmdoc11111",
        "profile_url":
"http://www.hipaaspace.com/medical_billing/coding/npi/codes/npi_189189
4531.aspx",
        "user_status": "added",
        "add_timestamp": 1600709811,
        "verify_timestamp": 0,
        "blist_timestamp": 0,
        "validator verify": "",
        "validators_blacklist": []
      },
      "payer": "trpmdoc11111"
  ],
  "more": false,
  "next_key": ""
}
```

A doctor trpmdoc11111 registers again & gets error

```
$ cleost push action trpm111stake regbydoctor '["trpmdoc11111",
"http://www.hipaaspace.com/medical_billing/coding/npi/codes/npi_1891894531
.aspx"]' -p trpmdoc11111@active
Error 3050003: eosio_assert_message assertion failure
Error Details:
assertion failure with message: the doctor's info is already added.
pending console output:
```

- Likewise, trpmdoc11112, trpmdoc11113, trpmdoc11114, trpmdoc11115, trpmdoc11121 doctors register
- for doctor trpmdoc11112

• for doctor trpmdoc11113

• for doctor trpmdoc11114

```
$ cleost push action trpm111stake regbydoctor '["trpmdoc11114",
   "https://www.hipaaspace.com/
medical_billing/coding/national_provider_identifier/codes/npi_1467586115.a
spx"]' -p trpmdoc11114@active
executed transaction:
e6e27f6e4918965da90eca99df8c79c99142042a109a415e0ca84c135f3f4af0 208
bytes 250 us
# trpm111stake <= trpm111stake::regbydoctor
{"doctor":"trpmdoc11114","profile_url":"https://www.hipaaspace.com/medical
_billing/coding/national_p...
warning: transaction executed locally, but may not be confirmed by the
network yet ]</pre>
```

• for doctor trpmdoc11115

```
$ cleost push action trpm111stake regbydoctor '["trpmdoc11115",
"https://www.hipaaspace.com/
medical_billing/coding/national_provider_identifier/codes/npi_1467586115.a
spx"]' -p trpmdoc11115@active
executed transaction:
9a9d7606b752ed05d5d62b96ef553f21203d036402857f25a1fefec7b0818e9c 208
bytes 176 us
# trpm111stake <= trpm111stake::regbydoctor
{"doctor":"trpmdoc11115","profile_url":"https://www.hipaaspace.com/medical
_billing/coding/national_p...
warning: transaction executed locally, but may not be confirmed by the
network yet ]</pre>
```

• for doctor trpmdoc11121

Action - compaddadmin

founder eosaidchains add itself as admin to the list

view the table

founder eosaidchains add itself as admin to the list again & gets error

```
$ cleost push action trpm111stake compaddadmin '[]' -p eosaidchains@active
Error 3050003: eosio_assert_message assertion failure
Error Details:
assertion failure with message: admins list is already initialized by
founder: 'eosaidchains'. So, can't be redone.
pending console output:
```

Action - verify

• founder eosaidchains verifies the doctor trpmdoc11111

view the table auth

```
$ cleost get table trpm111stake trpmdoc11111 auth --show-payer
  "rows": [{
      "data": {
        "doctor": "trpmdoc11111",
        "profile_url":
"http://www.hipaaspace.com/medical_billing/coding/npi/codes/npi_1891894531
.aspx",
        "user_status": "verified",
        "add_timestamp": 1600709811,
        "verify_timestamp": 1600716255,
        "blist_timestamp": 0,
        "validator_verify": "eosaidchains",
        "validators_blacklist": []
      },
      "payer": "trpm111stake"
  ],
  "more": false,
  "next_key": ""
}
```

Observations

- doctor has been verified
- doctor has been added into the admins list
- Now, other than eosaidchains, other admins like trpmdoc11111 can verify new doctors trpmdoc11112, trpmdoc11113
- to verify trpmdoc11112

```
$ cleost get table trpm111stake trpm111stake admins --show-payer
  "rows": [{
      "data": {
        "type": "doctor",
        "vector_admin": [
          "eosaidchains",
          "trpmdoc11111",
          "trpmdoc11112"
        ]
      },
      "payer": "trpm111stake"
    }
  ],
  "more": false,
  "next_key": ""
}
```

• to verify trpmdoc11113

```
$ cleost push action trpm111stake verify '["trpmdoc11111",
"trpmdoc11113"]' -p trpmdoc11111@active
executed transaction:
cf525883fd62826c893757ce6a3723f26c1196aab12c5e59307a1eddd0096b21 112
bytes 207 us
# trpm111stake <= trpm111stake::verify
{"verified_doctor":"trpmdoc11111","new_doctor":"trpmdoc11113"}
# trpm111stake <= trpm111stake::addadmin {"doctor":"trpmdoc11113"}
warning: transaction executed locally, but may not be confirmed by the
network yet ]</pre>
```

```
$ cleost get table trpm111stake trpm111stake admins --show-payer
  "rows": [{
      "data": {
        "type": "doctor",
        "vector_admin": [
          "eosaidchains",
          "trpmdoc11111",
          "trpmdoc11112",
          "trpmdoc11113"
        ]
      },
      "payer": "trpm111stake"
    }
  ],
  "more": false,
  "next key": ""
}
```

- Now, new admins like trpmdoc11112 can verify new doctors trpmdoc11114, trpmdoc11115, trpmdoc11121
- to verify trpmdoc11114

view the table admins

```
$ cleost get table trpm111stake trpm111stake admins --show-payer
  "rows": [{
      "data": {
        "type": "doctor",
        "vector_admin": [
          "eosaidchains",
          "trpmdoc11111",
          "trpmdoc11112",
          "trpmdoc11113",
          "trpmdoc11114"
        ]
      },
      "payer": "trpm111stake"
    }
  ],
  "more": false,
  "next key": ""
}
```

• to verify trpmdoc11115

```
$ cleost push action trpm111stake verify '["trpmdoc11112",
"trpmdoc11115"]' -p trpmdoc11112@active
executed transaction:
726d8ef5ae1b97e9d505b8c2738c7819903a2d8886d201b9913f4942c21ccec7 112
bytes 208 us
# trpm111stake <= trpm111stake::verify
{"verified_doctor":"trpmdoc11112","new_doctor":"trpmdoc11115"}
# trpm111stake <= trpm111stake::addadmin {"doctor":"trpmdoc11115"}
warning: transaction executed locally, but may not be confirmed by the
network yet ]</pre>
```

```
$ cleost get table trpm111stake trpm111stake admins --show-payer
  "rows": [{
      "data": {
        "type": "doctor",
        "vector_admin": [
          "eosaidchains",
          "trpmdoc11111",
          "trpmdoc11112",
          "trpmdoc11113",
          "trpmdoc11114",
          "trpmdoc11115"
        ]
      },
      "payer": "trpm111stake"
  ],
  "more": false,
  "next_key": ""
}
```

• to verify trpmdoc11121

```
$ cleost get table trpm111stake trpm111stake admins --show-payer
  "rows": [{
      "data": {
        "type": "doctor",
        "vector_admin": [
          "eosaidchains",
          "trpmdoc11111",
          "trpmdoc11112",
          "trpmdoc11113",
          "trpmdoc11114",
          "trpmdoc11115",
          "trpmdoc11121"
        ]
      },
      "payer": "trpm111stake"
    }
 ],
  "more": false,
  "next_key": ""
}
```

Action - blacklist

Now, let's blacklist a doctor trpmdoc11113 from the admins list. This requires 5
doctors to blacklist the doctor. 1. blacklist by eosaidchains

```
$ cleost push action trpm111stake blacklist '["eosaidchains",
"trpmdoc11113"]' -p eosaidchains@active
executed transaction:
4f5054342a0607ae5f1ff11b87b792f4f10a8b6eede5a06bb315259cac028c19 112
bytes 221 us
# trpm111stake <= trpm111stake::blacklist
{"verified_doctor":"eosaidchains","doctor":"trpmdoc11113"}
warning: transaction executed locally, but may not be confirmed by the
network yet ]</pre>
```

```
$ cleost get table trpm111stake trpm111stake admins --show-payer
  "rows": [{
      "data": {
        "type": "doctor",
        "vector_admin": [
          "eosaidchains",
          "trpmdoc11111",
          "trpmdoc11112",
          "trpmdoc11113",
          "trpmdoc11114",
          "trpmdoc11115",
          "trpmdoc11121"
        ]
      },
      "payer": "trpm111stake"
    }
  ],
  "more": false,
  "next_key": ""
}
```

view the table auth

```
$ cleost get table trpm111stake trpmdoc11113 auth --show-payer
  "rows": [{
      "data": {
        "doctor": "trpmdoc11113",
        "profile_url":
"https://www.hipaaspace.com/medical_billing/coding/national_provider_i
dentifier/codes/npi_1467586115.aspx",
        "user_status": "blacklisted",
        "add_timestamp": 1600716893,
        "verify_timestamp": 1600719809,
        "blist_timestamp": 1600720704,
        "validator_verify": "trpmdoc11111",
        "validators_blacklist": [
          "eosaidchains"
        1
      },
      "payer": "trpm111stake"
    }
  ],
  "more": false,
  "next_key": ""
}
```

2. blacklist by trpmdoc11111

view the table admins

```
$ cleost get table trpm111stake trpm111stake admins --show-payer
  "rows": [{
      "data": {
        "type": "doctor",
        "vector_admin": [
          "eosaidchains",
          "trpmdoc11111",
          "trpmdoc11112",
          "trpmdoc11113",
          "trpmdoc11114",
          "trpmdoc11115",
          "trpmdoc11121"
        ]
      },
      "payer": "trpm111stake"
    }
  ],
  "more": false,
  "next_key": ""
}
```

view the table auth

```
$ cleost get table trpm111stake trpmdoc11113 auth --show-payer
  "rows": [{
      "data": {
        "doctor": "trpmdoc11113",
        "profile_url":
"https://www.hipaaspace.com/medical_billing/coding/national_provider_i
dentifier/codes/npi_1467586115.aspx",
        "user_status": "blacklisted",
        "add_timestamp": 1600716893,
        "verify_timestamp": 1600719809,
        "blist_timestamp": 1600720756,
        "validator_verify": "trpmdoc11111",
        "validators_blacklist": [
          "eosaidchains",
          "trpmdoc11111"
        ]
      },
      "payer": "trpm111stake"
  ],
  "more": false,
  "next_key": ""
}
```

3. blacklist by trpmdoc11112

```
$ cleost push action trpm111stake blacklist '["trpmdoc11112",
"trpmdoc11113"]' -p trpmdoc11112@active
executed transaction:
4af6e38bca522e04241f37b667ae875c75b68e77ee1981460dc0008e02d7a09c 112
bytes 281 us
# trpm111stake <= trpm111stake::blacklist
{"verified_doctor":"trpmdoc11112","doctor":"trpmdoc11113"}
warning: transaction executed locally, but may not be confirmed by the
network yet ]</pre>
```

```
$ cleost get table trpm111stake trpm111stake admins --show-payer
  "rows": [{
      "data": {
        "type": "doctor",
        "vector_admin": [
          "eosaidchains",
          "trpmdoc11111",
          "trpmdoc11112",
          "trpmdoc11113",
          "trpmdoc11114",
          "trpmdoc11115",
          "trpmdoc11121"
        ]
      },
      "payer": "trpm111stake"
    }
  ],
  "more": false,
  "next_key": ""
}
```

view the table auth

```
$ cleost get table trpm111stake trpmdoc11113 auth --show-payer
  "rows": [{
      "data": {
        "doctor": "trpmdoc11113",
        "profile_url":
"https://www.hipaaspace.com/medical_billing/coding/national_provider_i
dentifier/codes/npi_1467586115.aspx",
        "user_status": "blacklisted",
        "add_timestamp": 1600716893,
        "verify_timestamp": 1600719809,
        "blist_timestamp": 1600720833,
        "validator_verify": "trpmdoc11111",
        "validators_blacklist": [
          "eosaidchains",
          "trpmdoc11111",
          "trpmdoc11112"
        ]
      },
      "payer": "trpm111stake"
    }
  ],
  "more": false,
  "next_key": ""
}
```

```
$ cleost push action trpm111stake blacklist '["trpmdoc11114",
"trpmdoc11113"]' -p trpmdoc11114@active
executed transaction:
1eba132df4202f1a0a1f4d79d393bc214cee3fb84174f0f623bca8bbdb9dfc1c 112
bytes 210 us
# trpm111stake <= trpm111stake::blacklist
{"verified_doctor":"trpmdoc11114","doctor":"trpmdoc11113"}
warning: transaction executed locally, but may not be confirmed by the
network yet  ]</pre>
```

view the table admins

```
$ cleost get table trpm111stake trpm111stake admins --show-payer
  "rows": [{
      "data": {
        "type": "doctor",
        "vector_admin": [
          "eosaidchains",
          "trpmdoc11111",
          "trpmdoc11112",
          "trpmdoc11113",
          "trpmdoc11114",
          "trpmdoc11115",
          "trpmdoc11121"
        ]
      },
      "payer": "trpm111stake"
    }
  ],
  "more": false,
  "next_key": ""
}
```

view the table auth

```
$ cleost get table trpm111stake trpmdoc11113 auth --show-payer
  "rows": [{
      "data": {
        "doctor": "trpmdoc11113",
        "profile url":
"https://www.hipaaspace.com/medical_billing/coding/national_provider_i
dentifier/codes/npi_1467586115.aspx",
        "user_status": "blacklisted",
        "add_timestamp": 1600716893,
        "verify_timestamp": 1600719809,
        "blist_timestamp": 1600720992,
        "validator_verify": "trpmdoc11111",
        "validators_blacklist": [
          "eosaidchains",
          "trpmdoc11111",
          "trpmdoc11112",
          "trpmdoc11114"
        1
      },
      "payer": "trpm111stake"
    }
  ],
  "more": false,
  "next_key": ""
}
```

5. blacklist by trpmdoc11115

```
$ cleost push action trpm111stake blacklist '["trpmdoc11115",
"trpmdoc11113"]' -p trpmdoc11115@active
executed transaction:
627956fe804fb2061b0a13455b617050326b8ecf2a90453f2d1379b3fdb5e4fb 112
bytes 204 us
# trpm111stake <= trpm111stake::blacklist
{"verified_doctor":"trpmdoc11115","doctor":"trpmdoc11113"}
# trpm111stake <= trpm111stake::remadmin {"doctor":"trpmdoc11113"}
warning: transaction executed locally, but may not be confirmed by the
network yet ]</pre>
```

```
$ cleost get table trpm111stake trpm111stake admins --show-payer
  "rows": [{
      "data": {
        "type": "doctor",
        "vector_admin": [
          "eosaidchains",
          "trpmdoc11111",
          "trpmdoc11112",
          "trpmdoc11114",
          "trpmdoc11115",
          "trpmdoc11121"
        ]
      },
      "payer": "trpm111stake"
  ],
  "more": false,
  "next_key": ""
}
```

view the table auth

```
$ cleost get table trpm111stake trpmdoc11113 auth --show-payer
  "rows": [{
      "data": {
        "doctor": "trpmdoc11113",
        "profile_url":
"https://www.hipaaspace.com/medical_billing/coding/national_provider_i
dentifier/codes/npi_1467586115.aspx",
        "user_status": "blacklisted",
        "add_timestamp": 1600716893,
        "verify_timestamp": 1600719809,
        "blist_timestamp": 1600721078,
        "validator_verify": "trpmdoc11111",
        "validators_blacklist": [
          "eosaidchains",
          "trpmdoc11111",
          "trpmdoc11112",
          "trpmdoc11114",
          "trpmdoc11115"
        ]
      },
      "payer": "trpm111stake"
    }
  ],
  "more": false,
  "next_key": ""
}
```

 After 5 other doctors (as admins) when votes for blacklisting the doctor trpmdoc11113, then the doctor is removed from the admin list

Action - stake [Payable action]

- patient trpmuser1112 transfers "500 TRPM" for stake before admitting into rehab
- view the token accounts table

```
$ cleost get table trpm111token trpmuser1112 accounts
{
   "rows": [{
        "balance": "610.9600 TRPM"
     }
   ],
   "more": false,
   "next_key": ""
}
```

transfers token - 500 TRPM, otherwise not transferred

```
$ cleost push action trpm111token transfer '["trpmuser1112",
"trpm111stake", "500.0000 TRPM", "transfer 500 TRPM tokens for Rehab
admission"]' -p trpmuser1112@active
executed transaction:
a67dda52e57dbcff0b16407e5073d0643f4d56bd371f0dfb2da5ac6aa60eeede 176
bytes 325 us
# trpm111token <= trpm111token::transfer</pre>
{"from":"trpmuser1112","to":"trpm111stake","quantity":"500.0000
TRPM", "memo": "transfer 500 TRPM toke...
# trpmuser1112 <= trpm111token::transfer</pre>
{"from":"trpmuser1112","to":"trpm111stake","quantity":"500.0000
TRPM", "memo": "transfer 500 TRPM toke...
# trpm111stake <= trpm111token::transfer</pre>
{"from":"trpmuser1112","to":"trpm111stake","quantity":"500.0000
TRPM", "memo": "transfer 500 TRPM toke...
warning: transaction executed locally, but may not be confirmed by the
network yet
                    1
```

• view the table stakewallet

```
$ cleost get table trpm111stake trpmuser1112 stakewallet --show-payer
  "rows": [{
      "data": {
        "staked_qty": "500.0000 TRPM",
        "lock_timestamp": 0,
        "start_timestamp": 0,
        "end timestamp": 0,
        "doctor": "",
        "patient_status": "unassigned"
      },
      "payer": "trpm111stake"
    }
  ],
  "more": false,
  "next_key": ""
}
```

Action - startrehab

• trpmdoc11111 sets lock period of 30 days for the patient trpmuser1112

```
$ cleost push action trpm111stake startrehab '["trpmdoc11111",
"trpmuser1112", "1603315246"]' -p trpmdoc11111@active
executed transaction:
baef75039a2ec4e248c3039ee3c25104c81bf348b4bbcabe70cae6d54aa8e34d 112
bytes 277 us
# trpm111stake <= trpm111stake::startrehab</pre>
{"verified_doctor":"trpmdoc11111","patient":"trpmuser1112","lock_timestamp
":1603315246}
# trpm111stake <= trpm111stake::sendalert</pre>
{"user":"trpmuser1112", "message": "Your rehab period is started by the
doctor: 'trpmdoc11111'."}
# trpmuser1112 <= trpm111stake::sendalert</pre>
{"user":"trpmuser1112","message":"Your rehab period is started by the
doctor: 'trpmdoc11111'."}
warning: transaction executed locally, but may not be confirmed by the
network yet
                    ]
```

• View the table stakewallet

```
$ cleost get table trpm111stake trpmuser1112 stakewallet --show-payer
  "rows": [{
      "data": {
        "staked_qty": "500.0000 TRPM",
        "lock_timestamp": 1603315246,
        "start_timestamp": 1600723257,
        "end timestamp": 0,
        "doctor": "trpmdoc11111",
        "patient_status": "assigned"
      },
      "payer": "trpm111stake"
    }
  ],
  "more": false,
  "next_key": ""
}
```

Action - endrehab

· Some other doctor tries to end the rehab & gets error

```
$ cleost push action trpm111stake endrehab '["trpmdoc11115",
"trpmuser1112", "caught"]' -p trpmdoc11115@active
Error 3050003: eosio_assert_message assertion failure
Error Details:
assertion failure with message: parsed Doctor's name does not match with
assigned Dr. name.
pending console output:
```

Case-1: Caught

trpmdoc11111 caught & ends rehab.

```
$ cleost push action trpm111stake endrehab '["trpmdoc11111",
"trpmuser1112", "caught"]' -p trpmdoc11111@active
executed transaction:
818efd04b014c6b6039ea81473788873e50e30b9ce62846ad7ee77ecbf473c36 120
bytes 201 us
# trpm111stake <= trpm111stake::endrehab</pre>
{"doctor":"trpmdoc11111","patient":"trpmuser1112","patient_status":"caught
# trpm111stake <= trpm111stake::sendalert</pre>
{"user":"trpmuser1112","message":"Your rehab period is ended as the
doctor: 'trpmdoc11111' mentioned...
# trpmuser1112 <= trpm111stake::sendalert</pre>
{"user":"trpmuser1112","message":"Your rehab period is ended as the
doctor: 'trpmdoc11111' mentioned...
warning: transaction executed locally, but may not be confirmed by the
network yet
                    ]
```

View the table stakewallet

```
$ cleost get table trpm111stake trpmuser1112 stakewallet --show-payer
  "rows": [{
      "data": {
        "staked_qty": "500.0000 TRPM",
        "lock_timestamp": 1603315246,
        "start_timestamp": 1600723257,
        "end_timestamp": 1600723416,
        "doctor": "trpmdoc11111",
        "patient_status": "caught"
      },
      "payer": "trpm111stake"
    }
  ],
  "more": false,
  "next key": ""
}
```

Case-2: Cured

Action - unstake

· patient wants to unstake after rehab is ended with "caught" status

```
$ cleost push action trpm111stake unstake '["trpmuser1112"]' -p
trpmuser1112@active
executed transaction:
0b74a3a54cb2422e70716b817118fa450ab557d7616290a6290d42d54304af4c 104
bytes 331 us
# trpm111stake <= trpm111stake::unstake</pre>
                                                {"patient":"trpmuser1112"}
# trpm111token <= trpm111token::transfer</pre>
{"from":"trpm111stake","to":"trpmdoc11111","quantity":"500.0000
TRPM", "memo": "TROPIUM Stake contract...
# trpm111stake <= trpm111stake::sendalert</pre>
{"user":"trpmuser1112", "message": "You lose your staked tokens: '500.0000
TRPM' for rehab"}
# trpm111stake <= trpm111token::transfer</pre>
{"from":"trpm111stake","to":"trpmdoc11111","quantity":"500.0000
TRPM", "memo": "TROPIUM Stake contract...
>> Either money is not sent to the contract or contract itself is the
buyer.
# trpmdoc11111 <= trpm111token::transfer</pre>
{"from":"trpm111stake","to":"trpmdoc11111","quantity":"500.0000
TRPM", "memo": "TROPIUM Stake contract...
# trpmuser1112 <= trpm111stake::sendalert</pre>
{"user":"trpmuser1112", "message": "You lose your staked tokens: '500.0000
TRPM' for rehab"}
warning: transaction executed locally, but may not be confirmed by the
network yet
                    1
```

- Here, the patient loses all its staked tokens to Doctor.
- view the doctor's TRPM balance

```
$ cleost get table trpm111token trpmdoc11111 accounts --show-payer
{
    "rows": [{
        "data": {
            "balance": "500.0000 TRPM"
        },
        "payer": "trpm111stake"
        }
    ],
    "more": false,
    "next_key": ""
}
```

• View the table stakewallet

```
$ cleost get table trpm111stake trpmuser1112 stakewallet --show-payer
{
    "rows": [],
    "more": false,
    "next_key": ""
}
```

TODO

- the auth table data ownership is transferred from new doctor to contract itself. as the verification is done.
- transfer back to the new doctor by an ACTION owndata(), only then the doctor is added to the admins list.