

Mnemonics and ropsten endpoint information have been removed from app.js and truffle-config files.

Contract address is at 0x2250Bcd37C365C258D6DdEc3CD146FB3ac4C6DbC

```
thoth-contract — -bash — 160x55

Starting migrations...
=====
> Network name:      'ropsten'
> Network id:        3
> Block gas limit: 8000000 (0x7a1200)

1_initial_migration.js
=====

  Deploying 'Migrations'
  -----
  > transaction hash: 0x86c1e32ed38691c9e30c3aa1d8dd363ee8b52a2188daca326b27597e8a91de1
  > Blocks: 1        Seconds: 44
  > contract address: 0xCF8de166B63CB7c9A997698316db5Fff4b34cd52
  > block number:     9203056
  > block timestamp:  1607197062
  > account:          0x242f37cd22F82D0A120979161Ac2019E683510a7
  > balance:          15.583926231854686591
  > gas used:         190011 (0x2e63b)
  > gas price:        20 gwei
  > value sent:       0 ETH
  > total cost:       0.00380022 ETH

  > Saving migration to chain.
  > Saving artifacts
  -----
  [
  > Total cost:       0.00380022 ETH
  ]

2_deploy_contracts.js
=====

  Deploying 'Thoth'
  -----
  > transaction hash: 0xe88b0afc51fa05a02d522462815e845192ac201ba4d48d8301d0bc145c28f58c
  > Blocks: 0        Seconds: 48
  > contract address: 0x2250Bcd37C365C258D6DdEc3CD146FB3ac4C6DbC
  > block number:     9203058
  > block timestamp:  1607197122
  > account:          0x242f37cd22F82D0A120979161Ac2019E683510a7
  > balance:          15.552186151854686591
  > gas used:         1544666 (0x1791da)
  > gas price:        20 gwei
  > value sent:       0 ETH
  > total cost:       0.03089332 ETH

  > Saving migration to chain.
  > Saving artifacts
  -----
  [
  > Total cost:       0.03089332 ETH
  ]
```

The following demo is explained through multiple accounts from Ganache but the app has been deployed on Infura.

In the following example the second account will act as a Hospital so it will register by typing 1 into the membership field.

For testing purposes only:

Chair: 0x816e1ca52099e29c8cd3adba1a04e6f64db501d6

Hospital 1: 0xd37282896f7862a528b97380d31e1507f19854a

Hospital 2: 0xf2ba14061986a5b2538a7b3649070c37d038e012

Manufacturer Company: 0x16756ebf03b8580ae7a7f270c3783bdccff1107f

Insurance Company: 0x73f97380fbaa465fb25036650ff686a2c4ae5c17

Doctor 1: 0x62fb6e285ea50dea533009129fbeb2e7595bb255


Docotor 2: 0xfc3ea7e494ecb454f887b13b30aba7a6b6467c26


Patient: 0xd3f4e2d80e736b5075166fd65b3444bd215f61c0


MembershipType: 1=Hospital, 2=Manufactuerer, 3=Insurance, 4=Doctor, 5=Patient


Healthcare Exchange Thoth System

Registration

 Membership Type

 Register

 Disable Membership

 Unregister

 Gnache 

Connected

Account 2
0x1D37...854A



84.9925 ETH

 Buy  Send  Swap

Assets **Activity**

 Register

Nov 24 · localhost:3000


-0 ETH
-0 ETH


 Register

Nov 24 · localhost:3000


-0 ETH
-0 ETH


When requesting an item, the Hospital inputs the manufacturer's address, their payment offer in ethers, and a password

 Request Equipment


 Equipment Request


The manufacturer will respond to the requesting address by accepting (1) or denying (0)

 Equipment Response

 Equipment Reply

The requester/Hospital account will pay the fee to the manufacturer's address, input the payment offer, and the password. The Smart Contract will check the original request hash to validate it.

 Fee Transaction

 Pay

Report Location	New Location Address	Report Location
View Location	Equipment Owner Addr	View Location

The Manufacturer or whoever is moving the equipment can update the current address or location of where the requested equipment is in the Report Location. If it has arrived at the Hospital it inputs the Hospital address id into the Report Location.

The Hospital can view where the current location of their equipment by inputting the address of the equipment owner, in this case the Manufacturer, into View Location.

➔ Request Record	Request address	Record Request
➔ Record Response	Requester address	Will approve?
		Record Reply

The Record request and response works similar to the equipment request/response. The user inputs the address of the record owner, either the patient or Insurance company representative. The recipient responds to the request by accepting (1) or denying (0) in the Will Approve box with the requester address.

For Doctors they enter the patients address in the view Record and the app will tell them if they are approved or not. The patient account would have to enter the Doctor's address in the approve field. Afterwards the system would approve the Doctor to view a patient's file.

Please note that I am switching between the Doctor and patient account in Ganache when roleplaying/testing the app.

Membership Type

5

Register

Patient approved: false

Enter address

Unregister

Record/Equipment Exchange

➡

Request Equipment

0x16756ebf03b8580ae

30

0x4265260000000000

Equipment Request

⬅

Equipment Response

0x1d37282896f7862a5

1

Equipment Reply

⬅

End Request

Owner address

End Request

💰

Fee Transaction

0x16756ebf03b8580ae

30

0x4265260000000000

Pay

Report Location

New Location Address

Report Location

View Location

Equipment Owner Addr

View Location

➡

Request Record

Request address

Record Request

⬅

Record Response

Requester address

Will approve?

Record Reply

View Record

➡

0xd3f4e2d80e736b507

Can View?

Membership Type

5

Register

Approve successful

Enter address

Unregister

Record/Equipment Exchange

➡

Request Equipment

0x16756ebf03b8580ae

30

0x4265260000000000

Equipment Request

⬅

Equipment Response

0x1d37282896f7862a5

1

Equipment Reply

⬅

End Request

Owner address

End Request

💰

Fee Transaction

0x16756ebf03b8580ae

30

0x4265260000000000

Pay

Report Location

New Location Address

Report Location

View Location

Equipment Owner Addr

View Location

➡

Request Record

Request address

Record Request

⬅

Record Response

Requester address

Will approve?

Record Reply

View Record

Record Owner Address

Can View?

👤

Approve Doctor

0x62fb6e285ea50dea5

Approve

➡

5

Register

Patient approved: true

Enter address

Unregister

Record/Equipment Exchange

Request Equipment

0x16756ebf03b8580ae

30

0x4265260000000000

Equipment Request

Equipment Response

0x1d37282896f7862a5

1

Equipment Reply

End Request

Owner address

End Request

Fee Transaction

0x16756ebf03b8580ae

30

0x4265260000000000

Pay

Report Location

New Location Address

Report Location

View Location

Equipment Owner Addr

View Location

Request Record

Request address

Record Request

Record Response

Requester address

Will approve?

Record Reply

View Record

0xd3f4e2d80e736b507

Can View?

Approve Doctor

Doctor Address

Approve

The patient can undo/deny Doctor Access by inputting the Doctor's address in the Remove Doctor.