

How to Deploy contract?

The screenshot shows the Visual Studio Code (VSCode) interface with a dark theme. On the left is the sidebar containing icons for file management, search, project, CSS, HTML, JS, SOL, and REMIX. The main area displays a Solidity code editor with the file `list123manager1.sol` open. The code defines a `List123Manager` contract with an array of `owners` and a `constructor` that adds the sender to the array. It also defines two structures: `Employee` and `EmployeeInfo`. A large watermark "Step 1" is overlaid on the code editor area.

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;

contract List123Manager {
    address[] public owners;

    constructor() {
        owners.push(msg.sender);
        isOwner[msg.sender] = true;
    }

    struct Employee {
        address employeeAddress;
        string hospitalName;
        string employeeId;
        string employeeName;
    }

    struct EmployeeInfo {
        address employeeAddress;
        string listName;
    }
}
```

Open your project in VSCode and find out the folder of SOL like this:

ETHERUM REMIX

REMX

- Compiler Compile contracts
- Debugger Transaction debugger
- IPFS Publish to IPFS
- Run & Deploy Connect to a network to run and deplo...
- Set compiler version 0.8.18**
- Start remixd client disconnected

REMX PLUGINS

- Contract verification - Sourcify Solidity contract a...
- Cookbook.dev Find any smart contract protocol an...
- Defi Explorer Explore Defi smart contracts LearnEth Learn Ethereum with Re...
- One Click Dapp A free tool to generate smart contr...
- Solhint Linter Linter for Solidity
- Tenderly Remix & Tenderly Project Integration. Verif...
- ZoKrates ZoKrates toolbox for zkSNARKs on Ethereum

list123

latest Solidity latest

0.8.23 Solidity 0.8.23

0.8.22 Solidity 0.8.22

0.8.21 Solidity 0.8.21

0.8.20 Solidity 0.8.20

0.8.19 Solidity 0.8.19

0.8.18 Solidity 0.8.18

0.8.17 Solidity 0.8.17

0.8.16 Solidity 0.8.16

0.8.15 Solidity 0.8.15

0.8.14 Solidity 0.8.14

0.8.13 Solidity 0.8.13

0.8.12 Solidity 0.8.12

0.8.11 Solidity 0.8.11

0.8.10 string hospitalName;

 string employeeId;

 string employeeName;

}

struct EmployeeInfo {

 address employeeAddress;

 string listName;

}

}

struct PregnantWoman {

 address walletAddress;

 string name;

 string idNumber;

 string hospitalName;

}

struct PregnantWomanInfo {

 address walletAddress;

 string listName;

 string idNumber;

 string name;

 string hospitalName;

}

Step 2

Open your remix plugin , set compiler version to 0.8.18 like this:

第 1 行, 第 1 檞 空格: 4 UTF-8 CRLF Solidity

PROJECT

ETHERUM REMIX

SOL > list123manager1.sol

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4
5 contract List123Manager {
6     address[] public owners;
7
8     constructor() {
9         owners.push(msg.sender);
10        isOwner[msg.sender] = true;
11    }
12
13
14     struct Employee {
15         address employeeAddress;
16         string hospitalName;
17         string employeeId;
18         string employeeName;
19     }
20
21     struct EmployeeInfo {
22         address employeeAddress;
23         string listName;
24     }
25 }
```

REMIX

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Run & Deploy X

Connection

Connect to a network to deploy

http://127.0.0.1:7545

Connect to a custom network, for example Ganache, Truffle or Hardhat.

https://remix.ethereum.org

Connect to the Remix Website via Localhost.

Connect to Wallet Connect

Disconnected

Step 3

Hit the Run&Deploy button ,make sure your Ganache is running
then hit Connect button on right hand side

問題 輸出 終端機 連接埠 偵錯主控台

REMIX IDE

[下午9:19:03]: Account changed to 0x17eFaAc58b8A987b1a16D5732d0a5D9487A638f5
[下午9:19:03]: Network is a local or custom network!
[下午9:32:49]: Get accounts...
[下午9:32:49]: Network is a local or custom network!
[下午9:32:53]: Disconnected from wallet
[下午9:32:53]: Disconnected

Open In Browser

The screenshot shows the Remix IDE interface. On the left, there's a sidebar with various tools and plugins like Ethereum Remix, Compiler, Debugger, IPFS, and REMIX PLUGINS. The main area displays a Solidity code editor with the file 'list123manager1.sol'. The code defines a contract 'List123Manager' with an array of addresses for owners and a struct 'Employee' for managing employees. A large watermark 'Step 4' is overlaid on the code editor. Below the code editor, a message says 'IF everything is alright will like this:' followed by another message 'than select list123manger1.sol hit Compile button'. The right side of the interface shows the 'Run & Deploy' tab, which is currently active, displaying a connection status with an account address '0x17eFaAc58b8A987b1a16D5732d0a5D9487A638f5'. There are buttons for 'Disconnect', 'Refresh accounts', and 'Compile'.

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;

contract List123Manager {
    address[] public owners;
    mapping(address => bool) isOwner;

    constructor() {
        owners.push(msg.sender);
        isOwner[msg.sender] = true;
    }

    struct Employee {
        address employeeAddress;
        string hospitalName;
        string employeeId;
        string employeeName;
    }

    struct EmployeeInfo {
        address employeeAddress;
        string listName;
    }
}
```

Step 4

IF everything is alright will like this:

than select list123manger1.sol hit Compile button

PROJECT

ETHERUM REMIX

REMIX

- Compiler Compile contracts
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list123manager1.sol × D_PrenatalCareCheckup.sol

SOL > list123manager1.sol

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4
5 contract List123Manager {
6     address[] public owners;
7
8     constructor() {
9         owners.push(msg.sender);
10        isOwner[msg.sender] = true;
11    }
12
13
14     struct Employee {
15         address employeeAddress;
16         string hospitalName;
17         string employeeId;
18         string employeeName;
19     }
20
21     struct EmployeeInfo {
22         address employeeAddress;
23         string listName;
```

Step 5

Run & Deploy

SOL/list123manager1.sol

Compile

CONTRACT

List123Manager - list123manager1.sol

ByteCode ABI

Deploy

Gas limit 3000000

Value 0

wei

Deploy

Deployed Contract Address

contract address

OR

At Address

問題 輸出 終端機 連接埠 偵錯主控台

```
LIT 9.40.00]. get accounts...
[下午9:46:00]: Account changed to 0x17eFaAc58b8A987b1a16D5732d0a5D9487A638f5
[下午9:46:00]: Network is a local or custom network!
[下午9:51:18]: Compiling with version soljson-v0.8.18+commit.87f61d96.js
[下午9:51:19]: Loading remote version v0.8.18+commit.87f61d96... please wait
[下午9:51:21]: Remote version v0.8.18+commit.87f61d96 loaded.
[下午9:51:22]: Compilation finished for SOL/list123manager1.sol with solidity version 0.8.18+commit.87f61d96.Emscripten clang.
```

x 0 △ 0 ⚡ 0 Open In Browser

ETHEREUM REMIX

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PROJECT

list123manager1.sol

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;

contract List123Manager {
    address[] public owners;
    constructor() {
        owners.push(msg.sender);
        isOwner[msg.sender] = true;
    }
    struct Employee {
        address employeeAddress;
        string hospitalName;
        string employeeId;
        string employeeName;
    }
    struct EmployeeInfo {
        address employeeAddress;
        string listName;
        string hospitalName;
    }
    struct WalletA {
        address walletA;
        string name;
        string idNumber;
    }
}
```

Run & Deploy

Deployed Contract Address

0xD5F255A6e9E78d94e43aab033F1ce28e14454B3c

OR

contract address

Run

List123Manager 0xD5F2...4B3c

ADDOWNER

address

TRANSACTION

Step 6

IF everything is success you will get a contract

then copy your contract address
ex: "0xD5F2...4B3c"

問題 輸出 終端機 連接埠 偵錯主控台

[下午9:56:39]: Deployment started!

[下午9:56:39]: Network is a local or custom network!

[下午9:56:39]: Gas estimate 6323376

[下午9:56:39]: Contract deployed at 0xD5F255A6e9E78d94e43aab033F1ce28e14454B3c

[下午9:56:39]: Deploying ...

[下午9:56:39]: Network is a local or custom network!

Remix IDE

PROJECT

ETHERUM REMIX

REMIX

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list123manager1.sol × D_PrenatalCareCheckup.sol

SOL > list123manager1.sol

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4
5 contract List123Manager {
6     address[] public owners;
7
8     constructor() {
9         owners.push(msg.sender);
10        isOwner[msg.sender] = true;
11    }
12
13
14     struct Employee {
15         address employeeAddress;
16         string hospitalName;
17         string employeeId;
18         string employeeName;
19     }
20
21     struct EmployeeInfo {
22         address employeeAddress;
23         string listName;
24
25     }
26
27 }
```

CONTRACT

ByteCode ABI

Deploy

Remix IDE

Run & Deploy

Connection

Disconnect

Connected accounts

Select Account

0x17eFaAc58b8A987b1a16D5732d0a5D9487A638f5

Refresh accounts

Network is a local or custom network

SOL/D_PrenatalCareCheckup.sol

Compile

Step 7

Now we need to deploy another contract

select D_PrenatalCareCheckup.sol and Compile

list123manager1.sol

Deploy

Remix IDE

輸出

終端埠

問題

LITTEBEE. Compilation finished for SOL/ list123manager1.sol with Solidity version 0.8.10+commit.0701a90.20210901163517+lang.

[下午9:56:39]: Deploying contract List123Manager started!

[下午9:56:39]: Network is a local or custom network!

[下午9:56:39]: Gas estimate 6323376

[下午9:56:39]: Contract deployed at 0xD5F255A6e9E78d94e43aab033F1ce28e14454B3c

[下午9:56:39]: Deploying ...

[下午9:56:39]: Network is a local or custom network!

Open In Browser

Step 8

When Compile is success , output will say "Compilation finished"

because of PrenatalCareCheckup.sol need include list123manager
So before deploy we need enter list123manager's address

than hit Deploy button

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;

contract List123Manager {
    address[] public owners;
    constructor() {
        owners.push(msg.sender);
        isOwner[msg.sender] = true;
    }
    struct Employee {
        address employeeAddress;
        string hospitalName;
        string employeeId;
        string employeeName;
    }
    struct EmployeeInfo {
        address employeeAddress;
        string name;
        string idNumber;
    }
}
```

PROJECT

list123manager1.sol D_PrenatalCareCheckup.sol

SOL > list123manager1.sol

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4
5 contract List123Manager {
6     address[] public owners;
7
8     constructor() {
9         owners.push(msg.sender);
10        isOwner[msg.sender] = true;
11    }
12
13
14     struct Employee {
15         address employeeAddress;
16         string hospitalName;
17         string employeeId;
18         string employeeName;
19     }
20
21     struct EmployeeInfo {
22         address employeeAddress;
23         string lastName;
24         string employeeId;
25         string emp;
26         string hos;
27     }
28
29     struct PregnantWoman {
30         address walletAddress;
31         string name;
32         string idNumber;
33     }
34 }
```

Run & Deploy D_PrenatalCareCheckup.sol

Gas limit 3000000

Value 0 wei

Deploy

Deployed Contract Address
0x2BE4c6f8f0Aa761E6ba7Ce71e26Cc47AA2D533d1

OR

contract address At Address

Run

List123Manager 0xD5F2...4B3c

NewPrenatalCareCheckup 0x2BE4...33d1

Output

Step 9

If everything is alright
You will get two contract like this:

問題 輸出 終端機 連接埠 偵錯主控台

```
[下午10:17:19]: COMPIILATION FINISHED FOR SOL/D_PrenatalCareCheckup.sol WITH SOLIDITY VERSION 0.8.10+COMMIT:1.8/10190.EMSCRIPTEN.Clang.
[下午10:17:30]: Deploying contract NewPrenatalCareCheckup started!
[下午10:17:30]: Network is a local or custom network!
[下午10:17:31]: Gas estimate 3364095
[下午10:17:31]: Contract deployed at 0x2BE4c6f8f0Aa761E6ba7Ce71e26Cc47AA2D533d1
[下午10:17:31]: Deploying ...
[下午10:17:31]: Network is a local or custom network!
```

REMIX 1

Open In Browser

Step 10

Find out 孕婦名單管理.js、權限管理.js、login.js

Change the contract Address to yours

(use List123Manager's address)

ex: "0xD5F2...4B3c"

JS 孕婦名單管理.js × JS 權限管理.js JS login.js Run & Deploy

```
const contractAddress = "0xA5d7951A4936ea2975058CE06552bc84F0D392DA";
```

Gas limit 3000000

Value 0 wei

Deploy Deployed Contract Address

0x2BE4c6f8f0Aa761E6ba7Ce71e26Cc47AA2D533d1

OR

contract address At Address

List123Manager 0xD5F2...4B3c

NewPrenatalCareCheckup 0x2BE4...33d1

Output

問題 輸出 終端機 連接埠 偵錯主控台

REMIX IDE

VERSION 0.8.10+COMMIT.8701950.E15C1PEN.Clang

[下午10:17:30]: Gas estimate 3364095

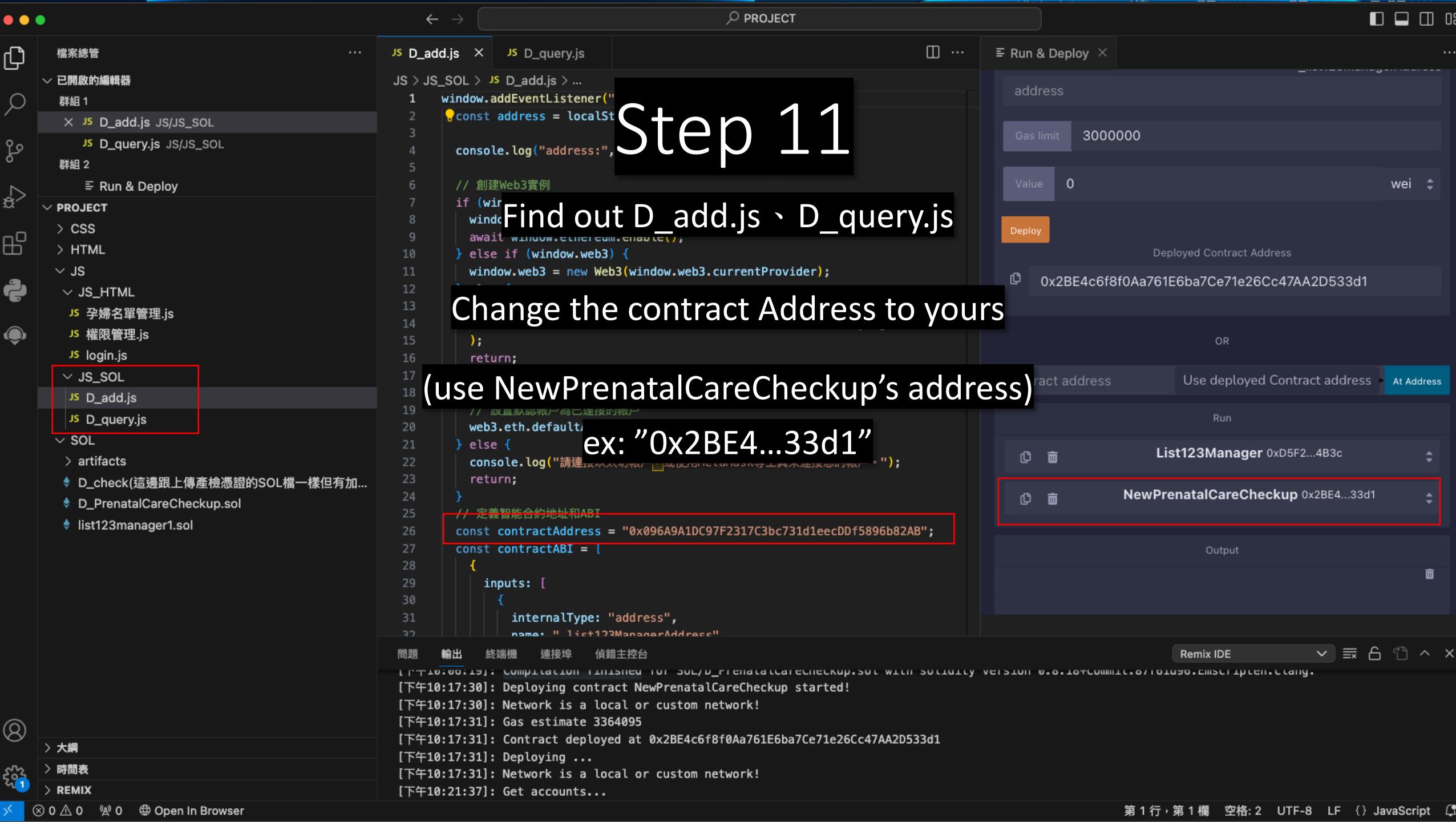
[下午10:17:31]: Contract dep 0x2BE4...33d1

[下午10:17:31]: Deploying ..

[下午10:17:31]: Network is a local or custom network!

[下午10:21:37]: Get accounts...

Open In Browser



Step 12

Now , your backend is connected to contract

but if you want to add a checkup result , you need a doctor identity

hit List123Manager and show List123Manager contract 's function ,

find out addtolist2

then enter real address from ganache,
id,Name, You can enter anything else you like

then hit TRANSACT button

ADDTOLIST2

_address
0x25D105e91c6087bF7e2Cd64A35bCBdf8b10240A6

_employeed
B01

_employeeName
B01

_hospitalName
ABC123

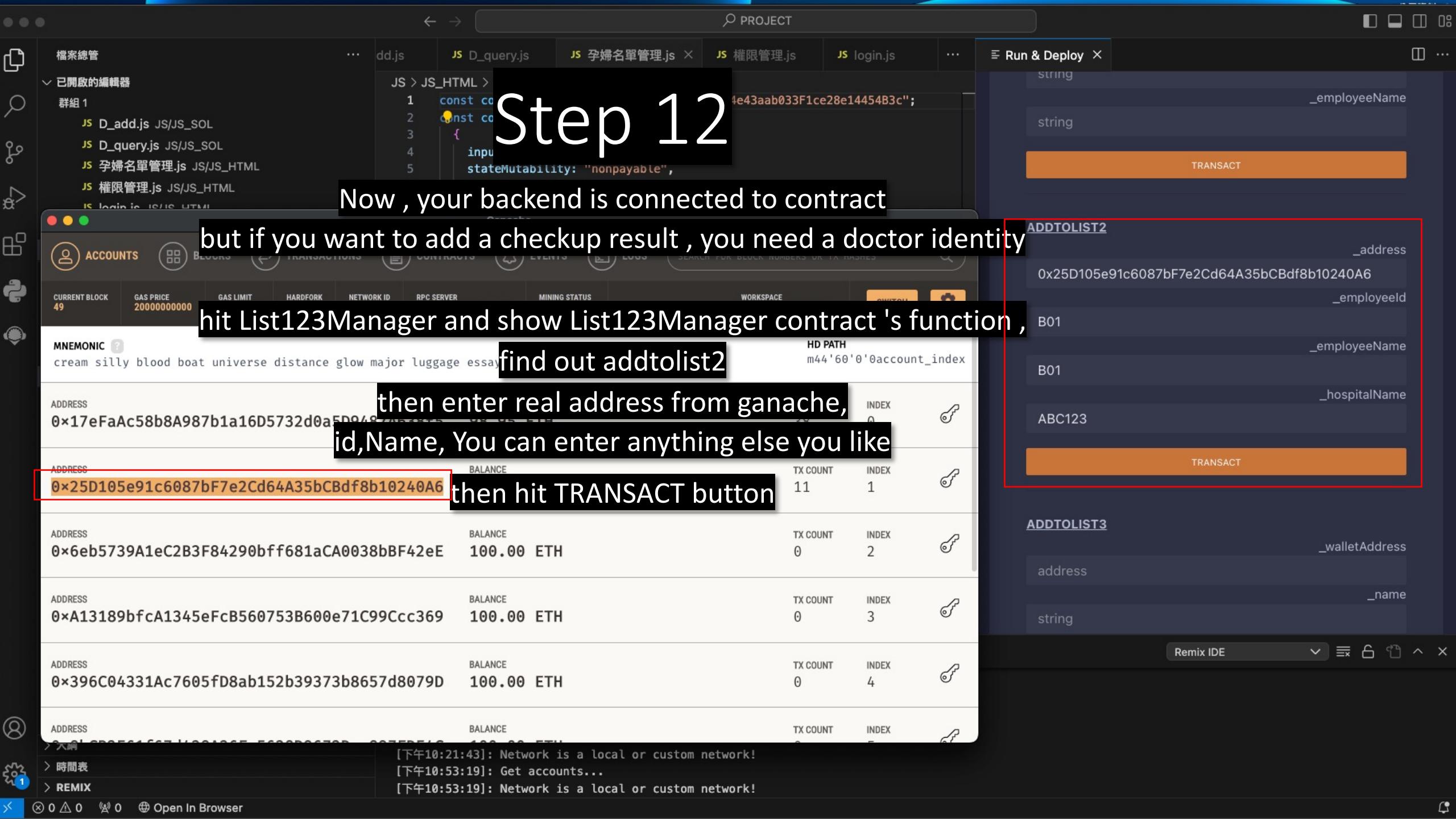
TRANSACTION

ADDTOLIST3

_walletAddress
address

_name
string

Remix IDE



PROJECT

JS孕婦名單管理.js × JS權限管理.js JS login.js ... Run & Deploy X

檔案總管 ... dd.js JS D_query.js JS孕婦名單管理.js × JS 權限管理.js JS login.js ... Run & Deploy X

已開啟的編輯器 群組 1 JS D_add.js JS/JS_SOLID JS D_query.js JS/JS_SOLID JS 孕婦名單管理.js JS/JS_HTML JS 權限管理.js JS/JS_HTML JS login.js JS/JS_HTML

Step 13

contractAddress 255A6e9E78d94e43aab033F1ce28e14454B3c";

Now, you have a doctor identity but still need a pregnant identity

find out addtolist3

then enter real address from ganache, id, Name, You can enter anything else you like

(The hospital name needs to be the same as the doctor's hospital name)

then hit TRANSACT button

ADDRESS 0x6eb5739A1eC2B3F84290bff681aCA0038bBF42eE BALANCE 100.00 ETH TX COUNT 0 INDEX 2

ADDRESS 0xA13189bfcA1345eFcB560753B600e71C99Ccc369 BALANCE 100.00 ETH TX COUNT 0 INDEX 3

ADDRESS 0x396C04331Ac7605fD8ab152b39373b8657d8079D BALANCE 100.00 ETH TX COUNT 0 INDEX 4

[下午11:03:48]: EFFECTIVEGASPRICE : 0x4a817c800

B01 _employeeName

B01 _hospitalName

ABC123

TRANSACTION

ADDTOLIST3 _walletAddress 0x6eb5739A1eC2B3F84290bff681aCA0038bBF42eE _name C01 _idNumber C01 _hospitalName ABC123

TRANSACTION

CHECKLIST _address

Remix IDE

Open In Browser

Step 14

Now , use the doctor's address to log in to matamask
and connect to the front end

if u hit the Connect Wallet Button

u will be directed to the doctor's website

连接钱包

进入 METAMASK 以继续

G Account 8

0x25D10...240A6

99.9812 ETH

Buy & Sell 發送 Swap Bridge Portfolio

Tokens NFTs 交易紀錄

Nov 15, 2023

G 合約互動 已確認 -0 ETH -0 ETH

G 合約互動 已確認 -0 ETH -0 ETH

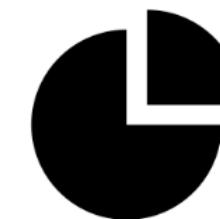
G 合約互動 已確認 -0 ETH -0 ETH



產檢系統

Step 15

Now u are in doctor's website



新增產檢資料

then click the 新增產檢資料



查詢產檢資料



查看產檢憑證



產檢系統

Step 16

Enter the ID according to the ID number in Step 13

Then click the search button

請輸入欲搜尋對象之身分證字號

身分證字號

C01

確認搜尋

第一次產檢報告紀錄

Step 17

孕婦姓名：C01 身分證字號：C01
錢包地址：0x6eb5739A1eC2B3F84290bff681aCA0038bBF42eE

問診內容

出血 -

腹痛 -

頭痛 -

痙攣 -

血壓收縮壓 8

血壓舒張壓 7

胎位 異常

浮腫 ++

靜脈曲張 --

尿糖 +,+

超音波檢查

超音波圖片 123456789

Now u are in the add checkup result page

The page will show the information about your pregnant person

enter value then click submit button

確定送出

大專產檢系統

localhost:8080/1115/PROJECT/HTML/D_enter.html

產檢系統

Step 17

第一次產檢報告紀錄

問診內容

出血 -

腹痛 -

頭痛 -

痙攣 -

體重 50

血壓收縮壓 5

胎心音 7

胎位 異常

浮腫 +,+

靜脈曲張 -,-

Then hit confirm button

(usually successful if these words are green)

實驗室檢查

尿蛋白 ++

尿糖 -

超音波檢查

超音波圖片 123456789

確定送出

MetaMask Notification

ganache

Account 8

錢包地址 : 0x6eb5739A1

詳情 DATA HEX

Network is busy. Gas prices are high and estimates are less accurate.

Site suggested >

Gas (estimated) 0.00164869 ETH

Very likely in < 18 seconds Max fee: 0.00164869 ETH

總量 0.00164869 ETH

Amount + gas fee Max amount: 0.00164869 ETH

拒絕 確認

大專產檢系統

localhost:8080/PROJECT/HTML/D_enter.html

三

三

localhost:8080 顯示
成功新增資料！

確定

第一次產檢報告紀錄

孕婦姓名：C01 身分證字號：C01
錢包地址：0x6eb5739A1eC2B3F84290bff681aCA0038bBF42eE

問診內容

出血 -

腹痛 -

頭痛 -

痙攣 -

身體檢查

體重 50

血壓收縮壓 8

血壓舒張壓 5

胎心音 7

胎位 異常

浮腫 +,+

靜脈曲張 -,-

實驗室檢查

尿蛋白 +,+
尿糖 +,+
超音波檢查

超音波圖片 123456789

Step 19

success !

確定送出

大專產檢系統

localhost:8080/1115/PROJECT/HTML/D_enter.html

產檢系統

首頁

新增產檢資料

查詢產檢資料

查看產檢憑證

產檢系統

孕婦姓名：C01 身分證字號：C01
錢包地址：0x6eb5739A1eC2B3F84290bff681aCA0038bBF42eE

Step 20

身體檢查

體重
50

血壓收縮壓
8

胎心音
7

胎位
異常

浮腫
+,+

靜脈曲張
-,+

實驗室檢查

尿蛋白
+,-

尿糖
+,-

超音波檢查

超音波圖片
123456789

確定送出

Now hit "search Prenatal Care Checkup" button

localhost:8080/1115/PROJECT/HTML/D_add.html



身份資料

欲查詢對象地址:

C01

查詢

Step 21

Enter the ID according to the ID number in Step 16

Then click the search button

查詢產檢資料

localhost:8080/1115/PROJECT/HTML/D_query.html

三

Step 22

success !

產檢系統

身份資料

欲查詢對象地址:

C01

查詢

檢查時間 : 2023/11/15 下午11:41:30

檢查項目 :

出血 Bleeding: -

腹痛 Stomach_ache: -

頭痛 Headache: -

痙攣 Spasms: -

體重 Weight: 50

血壓收縮壓 SBP: 8

血壓舒張壓 DBP: 5

胎心音 Fetal_heart_sounds: 7

胎位 Fetal_position: 異常

浮腫 Edema: +,+

靜脈曲張 Varicose_veins: -, -

尿蛋白 Urine_protein: +, +

血糖 Urine_sugar: +, +

超音波照CID: 123456789