传统区块链初始化和启动

本地私有链

建立本地私有链

- 建立测试文件夹

```
$ mkdir test_truffle_geth
$ cd test_truffle_geth/
```

- 建立创世块（genesis.json即配置文件）

```
sudo vim genesis.json
```

```
{
  "config": {
    "chainId": 666,
    "homesteadBlock": 0,
    "eip150Block": 0,
    "eip150Hash": "0x0000000000000000000000000000000000000000000000000000000000000000
000",
    "eip155Block": 0,
    "eip158Block": 0,
    "byzantiumBlock": 0,
    "constantinopleBlock": 0,
    "petersburgBlock": 0,
    "istanbulBlock": 0,
    "ethash": {}
  },
  "nonce": "0x0",
  "timestamp": "0x5ddf8f3e",
  "extraData": "0x0000000000000000000000000000000000000000000000000000000000000000
0",
  "gasLimit": "0x47b760",
  "difficulty": "0x00002",
  "mixHash": "0x0000000000000000000000000000000000000000000000000000000000000000",
  "coinbase": "0x0000000000000000000000000000000000000000",
  "alloc": { },
  "number": "0x0",
  "gasUsed": "0x0",
  "parentHash": "0x0000000000000000000000000000000000000000000000000000000000000000
```

```
0"
}
```

- 初始化文件夹

```
$ geth1 init ./genesis.json --datadir "./chain"
```

- 启动私有链

```
geth1 --identity "mshk.top etherum" --rpcaddr 127.0.0.1 --rpc --rpcport "8545" --r
pccorsdomain "*"  --maxpeers 2 --rpcapi "personal,eth,net,web3,debug" --networkid
 100 --datadir "./chain" --nodiscover --allow-insecure-unlock --dev.period 1 conso
le
```

- 创建账户开始挖矿

```
# 创建帐号
> personal.newAccount("123456")
# 解锁
> personal.unlockAccount(eth.accounts[0],"123456",15000)
# 开始挖矿
> miner.start(1)
```

测试私有链

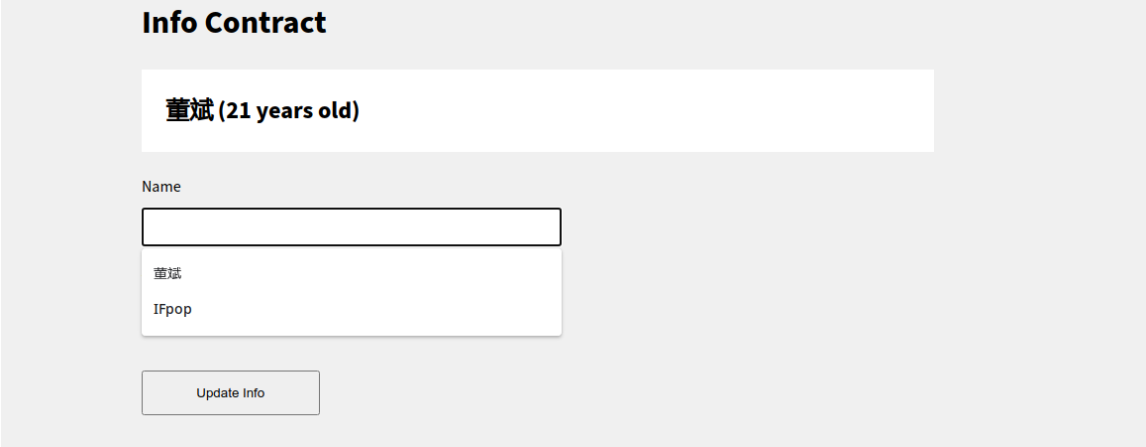
还是拿之前测试的合约来运行

- 首先需要更改`truffle-config.js`文件：

```
module.exports = {
  networks: {
    development: {
      host: "127.0.0.1",
      port: 8545,
      network_id: "*", // Match any network id
    }
  }
};
```

然后执行`truffle migrate`即可部署合约

打开`index.html`



测试通过