08-第八节 写入链上数据

实验目的

• 掌握链上数据的写入方式;

实验环境

• Node.js, 版本v14及以上

BSC Testnet

RPC: http://data-seed-prebsc-1-s2.binance.org:8545

ChainID: 97

Faucet: https://testnet.binance.org/faucet-smart/

Heco Testnet

RPC: https://http-testnet.hecochain.com

ChainID: 256

Faucet: https://scan-testnet.hecochain.com/faucet

Polygon Testnet

RPC: https://rpc-mumbai.maticvigil.com/

ChainID: 80001

Faucet: https://faucet.polygon.technology/

以上测试链任选一个进行实验即可。

实验内容

1. 在本地安装node.js



2. 在本地新建目录,并使用 npm init 进行初始化;

```
) npm init
This utility will walk you through creating a package json file.
It only covers the most common items, and tries to guess sensible defaults
See `npm help init` for definitive documentation on these fields
and exactly what they do.
Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.
Press ^C at any time to quit.
package name: (course07)
version: (1.0.0)
description:
entry point: (index.js)
test command:
git repository:
keywords:
author:
license: (ISC)
About to write to /Users/liangpeili/Projects/cbi/DApp-and-Smart-Contract-F
  "name": "course07",
  "version": "1.0.0",
  "description": "".
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  "author": "".
  "license": "ISC"
Is this OK? (yes) yes
```

3. 安装ethers.is

npm install --save ethers

npm install ——save ethers

added 45 packages, and audited 46 packages in 9s

31 packages are looking for funding run `npm fund` for details

found 0 vulnerabilities

- 4. 使用ethers.js部署一个ERC20合约到以上任意测试链; 要求: ERC20的Name为自己的全名; Symbol为自己名字的缩写。
- 5. 使用ethers.js 给地址文件里的100个地址每个地址空投201个 币:

实验报告内容

提交源代码,并且在实验报告开头中写明:姓名/学号/班级。

实验报告提交方式

实验报告完成后发送到邮箱 cbireport@163.com, 标题为 学号-班级-姓名-第八次实验报告