

Project D: Accessing Blockchain Events 報告

資工所 R08922156 黃劍韜

(a) Code

```
// 'use strict';

var fs = require('fs');
const Web3 = require('web3');
const quorumjs = require("quorum-js");
const web3 = new Web3("http://foodchain-node3.etherhost.org:22003/");
quorumjs.extend(web3);

function getContractAbi() {
  /* Load food3.abi */
  var abi_file = fs.readFileSync('food3.abi','utf-8');
  const CONTRACT_ABI = JSON.parse(abi_file);
  return CONTRACT_ABI;
}

function getContractAdd() {
  /* Load contract address */
  const CONTRACT_ADDRESS = "0xA4fafbE0ea4823e262b4916EF93CC5A6306A5DBc";
  return CONTRACT_ADDRESS;
}

function eventQuery(){
  const CONTRACT_ABI = getContractAbi();
  const CONTRACT_ADDRESS = getContractAdd();

  /* Code to query events here */
  const contract = new web3.eth.Contract(CONTRACT_ABI, CONTRACT_ADDRESS);

  const START_BLOCK = 0;
  const END_BLOCK = 5000;
  contract.getPastEvents("FoodSection",
  {
    fromBlock: START_BLOCK,
    toBlock: END_BLOCK // You can also specify 'latest'
  })
  .then(events => {
    for (i = 0; i < events.length; i++) {
      if(events[i]['returnValues']['logno']==7477){
        console.log(events[i]);
        // break;
      }
    }
  })
  .catch((err) => console.error(err));
}

eventQuery();
```

(b) Result for logno = 7477

我設定 **START BLOCK** 為 0，**END BLOCK** 為 5000，

把其中 logon 為 7477 的 print 出來得到兩筆（助教檢查時

可以自行設定 BLOCK 數量)

[illegible]