

Assignment-6

Description

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Web Application Programming

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Description

- Install Node.js
- Download the assignment-6 material at the lecture site
- You should implement ajax client and node.js http server
- Keywords : JSON, Node.js, http, filesystem

Requirement 1

- See client/start.html and server/json_server.js
- The start.html is same as the example of the previous lab.
- start1.html requests to json_server.js.
- json_server.js is your http server and it will be executed by node.js.
- And then the client will get a json file from your node.js server.
- Parse the received json and create table
- Type “node json_server.js” to run node.js http server

Requirement 1 - cont

Get Information

onclick() and http request
by ajax

```
var http = require('http');
var fs = require('fs');
http.createServer(function (req, res) {
  fs.readFile('asset/sample1.json', function(err, data) {
    res.setHeader('Access-Control-Allow-Origin', '*');
    res.writeHead(200, {'Content-Type': 'application/json'});
    res.write(data);
    res.end();
  });
}).listen(8080);
```

response

```
function loadDoc() {
  var xhttp = new XMLHttpRequest();
  xhttp.onreadystatechange = function() {
    if (this.readyState == 4 && this.status == 200) {
      var obj = JSON.parse(this.responseText);
      /* check obj by setting breakpoint at this line */
      alert(obj);
    }
  };
  xhttp.open("GET", "http://localhost:8080", true);
  xhttp.send();
}
```

Implement here

Result of Requirement 1

```
{  
  "fields": [  
    {"key": "firstName", "value": "First Name"},  
    {"key": "lastName", "value": "Last Name"},  
    {"key": "email", "value": "E-mail"}  
  ],  
  "values": [  
    {"firstName": "John", "lastName": "Doe", "email": "abc@example.com"},  
    {"firstName": "Anna", "lastName": "Smith", "email": "bcd@example.com"},  
    {"firstName": "Peter", "lastName": "Jones", "email": "efg@example.com"},  
    {"firstName": "Ki-Joune", "lastName": "Li", "email": "lik@pnu.edu"}  
  ]  
}
```

this part should be used to make table header

this part should be used to make table content

First Name	Last Name	E-mail
John	Doe	abc@example.com
Anna	Smith	bcd@example.com
Peter	Jones	efg@example.com
Ki-Joune	Li	lik@pnu.edu