คำแนะนำทุกคนดีทมด ลองทำดูได้เลย ถ้าไม่ไหวก็กลับมา ลองรู้เยอะดูก่อน ถ้าไม่ไหว ลองรู้น้อย มืออาชีพจะใช้ Postman ซึ่งมี Cookies ในตัว แต่ผมจะเขียน Code เองเลย ใช้คำสั่ง fetch()
POST /api/login GET /api/logout GET /api/list-products จะเปิด Web Browser เข้าไปที่ /api/login ไม่ได้ เมื่อวานไปที่นี่ /test.html Login 1, Log In 2, Check Me, Log Out, List Products https://codestar.work/full-stack-2023-09-19.txt web-20 ' main.js
<pre>' public     ' test.html  File: public/test.html  <!DOCTYPE html>     <html>     <head></head></html></pre>
<trte><title>icoffee</title> <body> <button onclick="testLogIn1()">Log In 1</button> <button onclick="testLogIn2()">Log In 2</button> <button onclick="checkMe()">Check Me</button> <button onclick="checkPrice()">Check Me</button> <button onclick="checkPrice()">Check Price</button> <button onclick="testLogOut()">Log Out</button> <button onclick="testLogOut()">Log Out</button> <script> async function testLogOut() {    var response = await fetch("/api/logout")    var result = await response.json()</th></tr><tr><th><pre>async function checkPrice() {   var response = await fetch("/api/list-products")   var result = await response.json()   // console.log(result)   console.table(result)   }   </script></body></trte>
<pre> <script>   async function checkMe() {     var response = await fetch("/api/me")     var result = await response.json()     console.log(result)     if (result.status == "OK") {         alert("Hello " + result.name)     } else {         alert(result.status)     } } </pre></th></tr><tr><th><pre>async function testLogIn1() {    var detail = { }    detail.email = "jeff@amazon.com"    detail.password = "xxxxx"    var payload = { }    payload.method = "POST"    payload.headers = { }    payload.headers["Content-Type"] = "application/json"    payload.body = JSON.stringify(detail)</pre></th></tr><tr><th><pre>var response = await fetch("/api/login", payload) var result = await response.json() alert(result.status) } async function testLogIn2() {  var detail = { }  detail.email = "jeff@amazon.com"  detail.password = "Jeff123"</pre></th></tr><tr><th><pre>var payload = { }   payload.method = "POST"   payload.headers = { }   payload.headers["Content-Type"] = "application/json"   payload.body = JSON.stringify(detail)   var response = await fetch("/api/login", payload)   var result = await response.json()   alert(result.status) }</pre></th></tr><tr><th><pre> </script>    File: main is: </pre>
<pre>File: main.js var crypto = require("crypto") var express = require("express") var server = express() server.listen(19000) var readJson = express.json() var sessions = [ ] var cookie = require("cookie-parser") var readCookie = cookie() // similar to express.js</pre>
<pre>server.use (readCookie) // work on all requests server.get ("/api/me",</pre>
function getCurrentUserDetail(request, response) {  // Middleware จะทำงานยังไง ซึ้นอยู่คนเขียน สำหรับ cookie-parser จะทำงานโดย  // อ่านข้อมูลจาก HTTP Header และ เก็บไว้ที่ request.cookies.token  var t = request.cookies.token  if (sessions[t] == null) {  response.send({status: "Error - Invalid current user"}) } else {
<pre>var result = { }   result.status = "OK"   result.name = sessions[t].name   result.email = sessions[t].email   response.send(result) } </pre>
function tryLogIn(request, response) {     // Middleware จะทำงานยังไง ขึ้นอยู่กับคนเขียน คนเขียน express.json() คิดไว้แล้วว่า     // จะอ่านข้อมูลเป็น JSON และเก็บไว้ที่นี่ request.body.email     var email = request.body.email    ""     var password = request.body.password    ""     if (email == ""    password == "") {         response.send({status: "Error - Invalid user detail"})         return
<pre>password = encrypt(password) var found = -1 for (var i = 0; i &lt; users.length; i++) {    if (users[i].email == email &amp;&amp;         users[i].password == password) {         found = i     } }</pre>
<pre>if (found == -1) {   response.send({status: "Error - Fail to log in"})   return } // 1. create token e.g. FD87-837E-DD75-DZ38 // 2. store the token an our array</pre>
<pre>// 2. store the token to client via HTTP cookie // 3. send the token to client via HTTP cookie var t = randomToken()</pre>
<pre>var t = request.cookies.token delete sessions[t] response.send({status: "OK"}) }  function listProducts(request, response) {   var t = request.cookies.token   if (sessions[t] == null) {</pre>
<pre>response.send(products) } else {   var items = [ ]   for (var i = 0; i &lt; products.length; i++) {     var item = { }     item.name = products[i].name     item.price = products[i].price * 0.90     items.push(item) }</pre>
<pre>response.send(items) }  var products = [ {name: "Latte", price: 80},</pre>
<pre>// https://codestar.work/full-stack-2023-09-20.txt  var users = [ ] users.push( {email:"jeff@amazon.com",</pre>
<pre>function encrypt(text) {    return crypto.createHash("sha512")</pre>
<pre>function randomToken() {   var width = 4   var block = 8   // var pattern = "0123456789"   var pattern = "0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ"   var items = [ ]   for (var i = 0; i &lt; block; i++) {     var buffer = ""</pre>
<pre>for (var j = 0; j &lt; width; j++) {    var r = parseInt(Math.random() * pattern.length)    buffer = buffer + pattern[r] } items.push(buffer) } // items is [ "xxxx", "yyyy", "xxxx", "yyyy" ] return items.join("-")</pre>
https://codestar.work/full-stack-2023-09-20.txt mkdir web-20 cd web-20 npm install express cookie-parser nano main.js
mkdir public nano public/test.html killall node node main.js https://codestar.work/full-stack-2023-09-20.txt https://javapuzzle.com/mongodb.html
Operating System OS DBMS Windows, Linux, MySQL, SQL Server, MongoDB Database ' ' MySQL: show databases;
MongoDB: show dbs show collections show tables  rm *.deb
<pre>wget https://repo.mongodb.org\ /apt/ubuntu/dists/bionic/mongodb-org/4.0\ /multiverse/binary-amd64\ /mongodb-org-server_4.0.8_amd64.deb  apt install ./mongo[Tab] service mongod status service mongod start</pre>
<pre>service mongod status  rm *.deb  wget https://downloads.mongodb.com\ /compass/mongodb-mongosh_1.0.0_amd64.deb  apt install ./mongo[Tab]</pre>
<pre>rm *.deb mongosh wget https://codestar.work/libssl.deb apt install ./libssl.deb</pre>
test> use shop [Enter] switched to db shop จากจุดนี้ไป ถ้าใช้คำว่า db จะหมายถึง shop shop> db.branch.insertOne( { name: "New York", area: 87.5 } )
'> เดิมที่ MongoDB เรียกว่า Collection ที่อ branch นี่คือ Collection ที่อ branch แต่ต่อมาก็เปลี่ยนใจ เรียกว่า Table ก็ได้ show collections show tables shop> db.branch.insertOne( { name: "Atlanta", area: 120 } )
<pre>shop&gt; db.staff.insertOne( { name: "Harry P", salary: 48000, gender: "Male" } ) shop&gt; db.staff.insertOne( { name: "Luna L", wage: 400 } ) shop&gt; db.staff.find() shop&gt; db.staff.deleteOne( {name: "Luna L"} )</pre>
<pre>shop&gt; db.staff.updateOne( {name: "Luna L"}, { \$set: {gender: "Female"} }) shop&gt; db.staff.updateOne( {name: "Luna L"}, { \$set: {wage: 450} })  mkdir web-20b web-20b ' show.js npm install mongodb express</pre>
<pre>' service.js File: show.js var mongo = require("mongodb") var source = "mongodb://127.0.0.1" show() async function show() {</pre>
<pre>var cn = await mongo.MongoClient.connect(source) var data = await cn.db("shop")</pre>
<pre>File: service.js var express = require("express") var server = express() server.listen(20000) var mongo = require("mongodb") var source = "mongodb://127.0.0.1" server.get("/api/list-branch", listBranch) server.get("/api/list-staff", listStaff)  async function listBranch(request, response) {     var cn = await mongo.MongoClient.connect(source)     var data = await cn.db("shop")</pre>
<pre>await cn.close() response.send(data) }  async function listStaff(request, response) {   var cn = await mongo.MongoClient.connect(source)   var data = await cn.db("shop")</pre>
<pre>await cn.close() response.send(data) } https://telehealth.bnhhospital.com/setup.html</pre>
ระดับโลกจะใช้ GET ในการ List ข้อมูล หรือ Search หาข้อมูล  CRUD: Create, Read, Update, Delete  Read - Search - List> GET  องค์กรชั้นนำของไทย ไม่ได้ใช้ GET  Verb ไทน ก็ไม่ถูก
Name of the mining many web Service มันผิดตั้งแต่แรกแล้ว RESTful Web Service  '
/api/update-branch /api/update-user /api/delete-branch /api/delete-user /api/list-branch . /api/search-branch .  https://javapuzzle.com/mongodb.html