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Comp20 HW12

The web app is online and can be accessed through the form in the url:

<https://afrogeo.github.io/comp20/getData.html>

**Node.js vs PHP  which do you prefer and WHY:**

I do not have enough experience in either of them so I do not have a strong preference. PHP was easier to learn and I was able to adjust to it faster without many problems, however node.js was efficient once I learned how to work with it and was much faster and has more features. So I would say that I prefer Node.js for more time-consuming and more complex work.

**ALL CODE:**

Web app that reads CSV file and stores it to mongodb:

const fs = require('fs');

const fastcsv = require('fast-csv');

const MongoClient = require('mongodb').MongoClient;

let url = "mongodb+srv://comp20:nikodeedo@cluster0.jyaa0.mongodb.net/companies?retryWrites=true&w=majority"

let stream = fs.createReadStream("companies.csv");

let csvData = [];

let csvStream = fastcsv

.parse()

.on("data",function(data) {

csvData.push({

Company: data[0],

Ticker: data[1]

});

})

.on("end", function() {

csvData.shift();

console.log(csvData);

MongoClient.connect(url, { useNewUrlParser: true, useUnifiedTopology: true},

(err,client) => {

if(err) throw err;

client

.db("companies")

.collection('companies')

.insertMany(csvData, (err, res) => {

if (err) throw err;

console.log('inserted:' + res.insertedCount + 'rows');

client.close();

});

}

);

});

stream.pipe(csvStream);

Form html file to get company or ticker from user:

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title> </title>

</head>

<body>

<form action="https://democomp20.herokuapp.com/" method="GET">

Company: <input type="text" name="comp">

Ticker: <input type="text" name="tick">

<br /><input type="submit" value="Submit">

</form>

</body>

</html>

Web app that gets query from form, searches in mongodb for the query, and displays results:

var http = require('http');

var url = require('url');

var port = process.env.PORT || 3000;

const MongoClient = require('mongodb').MongoClient;

const uri = "mongodb+srv://comp20:nikodeedo@cluster0.jyaa0.mongodb.net/companies?retryWrites=true&w=majority"

http.createServer(function(req,res) {

res.writeHead(200, {'Content-Type':'text/html'});

var qobj = url.parse(req.url,true).query;

var company = qobj.comp;

var ticker = qobj.tick;

if (company) {

MongoClient.connect(uri, { useUnifiedTopology: true},

function(err,db) {

if (err) { console.log("CONNECTION ERR: " + err); return;}

var dbo = db.db("companies");

var coll = dbo.collection('companies');

const query = {Company: company}

coll.find(query).toArray(function(err,items) {

if (err) {

console.log("Error: " + err);

} else {

if (items.length == 0) {

res.write("<h2> No company " + company + " found! </h2>");

} else {

res.write("<h2> Companies found: </h2><br>");

for (i=0;i<items.length;i++) {

res.write("<hp> - Company: " + items[i].Company + " // Ticker: " +

items[i].Ticker + "</p><br>");

}

}

res.end();

}

db.close();

});

console.log("Success!");

});

} else {

MongoClient.connect(uri, { useUnifiedTopology: true},

function(err,db) {

if (err) { console.log("CONNECTION ERR: " + err); return;}

var dbo = db.db("companies");

var coll = dbo.collection('companies');

const query = {Ticker: ticker}

coll.find(query).toArray(function(err,items) {

if (err) {

console.log("Error: " + err);

} else {

if (items.length == 0) {

res.write("<h2> No companies with ticker " + ticker + " found! </h2>");

} else {

res.write("<h2> Companies found: </h2> <br>");

for (i=0;i<items.length;i++) {

res.write("<p> - Company: " + items[i].Company + " // Ticker: " +

items[i].Ticker + "</p><br>");

}

}

res.end();

}

db.close();

});

console.log("Success!");

});

}

}).listen(port);

package.json file for heroku to open the web app online

{

"name": "helloapp",

"version": "1.0.0",

"description": "node app",

"main": "form.js",

"scripts": {

"start": "node form.js"

},

"repository": {

"type": "git",

"url": ""

},

"author": "",

"license": "ISC",

"bugs": {

"url": ""

},

"homepage": "",

"dependencies": {

"mongodb": "\*"

}

}