StockTickerApp

CS 20 Web Programming Assignment 14: Stock Ticker App

Part 1

Video: https://youtu.be/gFkhdrNv4AA

Part 2

Bug Note: I am getting an ERR_CONNECTION_REFUSED due to the localhost refusing to connect. I believe the fix to this issue has to do with Norton Antivirus throwing a fit about me trying to connect to a port and I do not feel comfortable and am not able to disable the firewall.

index.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <style>
        body {
            background-color: #a58aff;
        }
        h1 {
            font-family: "papyrus", cursive;
            font-size: 50px;
            color: #3d2d75;
            text-align: center;
        }
        form {
            text-align: center;
        }

        table {
            margin-right: auto;
            margin-left: auto;
        }
        .headings {
            display: inline-block;
```

```css
            font-size : 30px;
            font-family: "Brush Script MT", "Brush Script Std", cursive;
            color : #db3072;
            text-align: center;
        }

        input {
            display: inline-block;
        }

        .box {
            margin: 20px;
            padding: 30px;
            background: #ff73a9;
        }
        .box:hover {
            background-color: #ff99c0;
            color: #000000;
        }
    </style>
    <title>Stock Ticker</title>
</head>
<body>
    <section>
        <h1 class="heading">Stock Ticker</h1>

        <form method='post' action='http://localhost:8080/process'>
            <div class="box">
                <label class="headings" for="theinput">What do you want to
see?</label><br><br><input type="text" name='theinput' id="theinput"/>
            </div>
            <div class="box">
                <label class="headings">What did you input?</label>
<br><br>
                <input type="radio" id="ticker" name="p_or_d" value =
"ticker"/><label for="ticker">Stock Ticker Symbol</label>
                <br>
                <input type="radio"  id="company" name="p_or_d" value =
"company" checked="checked"/><label for="company">Company Name</label>
            </div>
            <input type="submit" value="Submit"/>
        </form>
    </section>
```

```html
</body>
</html>
```

main.js

```javascript
var http = require('http');
var fs = require("fs");
var qs = require('querystring');
const {MongoClient} = require("mongodb");
const uri =
"mongodb+srv://user:ZqP6eA$4qv6y5MA@equities.lx3addr.mongodb.net/?retryWrit
es=true&w=majority";
const client = new MongoClient(uri);

http.createServer(async function (req, res) {
    console.log("made it into create server");
    if (req.url === "/process") {
        await connect();
        file = 'output.html';
        fs.readFile(file, async function (err, txt) {
            res.writeHead(200, {'Content-Type':'text/html'});
            res.write (txt);
            pdata = "";
            req.on('data', data => {
                pdata += data.toString();
            });

            // when complete POST data is received
            req.on('end', () => {
                pdata = qs.parse(pdata);
                searchdata(pdata['theinput'], res, pdata['p_or_d'] ===
"company");
            });
        });

    } else {
        file = 'index.html';
        fs.readFile(file, function(err, txt) {
            res.writeHead(200, {'Content-Type': 'text/html'});
            res.write(txt);
            res.end();
```

```
        });
    }
}).listen(8080);

function searchdata(query, res, comp) {
    const database = client.db("stoker");
    const equities = database.collection("equities");

    equities.find(comp ? {"name": query} : {"ticker": query +
"\r"}).toArray(async function (err, result) {
        if (err) throw err;

        console.log(result);

        if (result.length === 0) {
            res.write("No results found for: " + query);
        }

        await client.close();

        for (let i = 0; i < result.length; i++) {
            res.write("Company Name: " + result[i].name);
            res.write("<br>");
            res.write("Stock Ticker: " + result[i].ticker);
            res.write("<br>");
        }

        res.end();
    });
}

async function connect() {
    await client.connect();
    await client.db("stoker").command({ping: 1});
    console.log("Server Connected Successfully");
}
```

output.html

```
<!DOCTYPE html>
<html lang="en">
```

```html
<head>
    <meta charset="UTF-8">
  <style>
      body {
        background-color: #a58aff;
      }
      h1 {
        font-family: "papyrus", cursive;
        font-size: 50px;
        color: #3d2d75;
        text-align: center;
      }
      form {
        text-align: center;
      }

      table {
        margin-right: auto;
        margin-left: auto;
      }
      label {
        display: inline-block;
        font-size : 30px;
        font-family: "Brush Script MT", "Brush Script Std", cursive;
        color : #db3072;
        text-align: center;
      }

      input {
        display: inline-block;
      }

      .box {
        margin: 20px;
        padding: 30px;
        background: #ff73a9;
      }
      .box:hover {
        background-color: #ff99c0;
        color: #000000;
      }
  </style>
    <title>Stock Ticker Results</title>
```

```
  </head>
  <body>
    <h1>Stock Ticker Results</h1>

  </body>
  </html>
```

Questions

Node.js vs PHP- which do you prefer and WHY.
I prefer Node.js because PHP makes me sad on the inside and Nodejs doesn't make me feel like that.