1.

```
PS G:\WebDev2\lab13a> node hello
hello world
```

2.

Hello again, this time as **HTML**Hello to our first node.js application
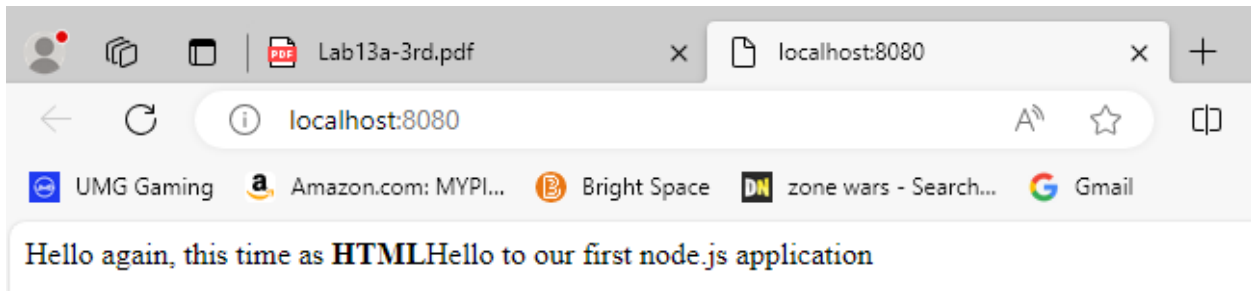
3.

Node 1 Lab: Sample page

You are viewing the content of `sample.html` in the `public` folder

this image will be missing initially

500 Error - File not found

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4.

Test Fetch (PUT/POST/DELETE)

Symbol

ADBE

Name

Adobe Systems Inc

Sector

Information Technology

Sub Industry

Application Software

Address

San Jose, California

Exchange

Nasdaq Global Select

[Insert (HTTP POST)] [Update (HTTP PUT)] [Delete (HTTP DELETE)]

```
1  [
2      {
3          "symbol": "MMM",
4          "name": "3M Company",
5          "SEC": "reports",
6          "sector": "Industrials",
7          "subIndustry": "Industrial Conglomerates",
8          "address": "St. Paul, Minnesota",
9          "dateAdded": "",
10         "CIK": 66740,
11         "frequency": 8
12     },
13     {
14         "symbol": "ABT",
15         "name": "Abbott Laboratories",
16         "SEC": "reports",
17         "sector": "Health Care",
18         "subIndustry": "Health Care Equipment",
19         "address": "North Chicago, Illinois",
20         "dateAdded": "3/31/1964",
21         "CIK": 1800,
22         "frequency": 5
23     },
24     {
25         "symbol": "ACN",
26         "name": "Accenture plc",
27         "SEC": "reports",
28         "sector": "Information Technology",
```

5.

Test Fetch (PUT/POST/DELETE)

Symbol

ADBE

Name

Adobe Systems Inc

Sector

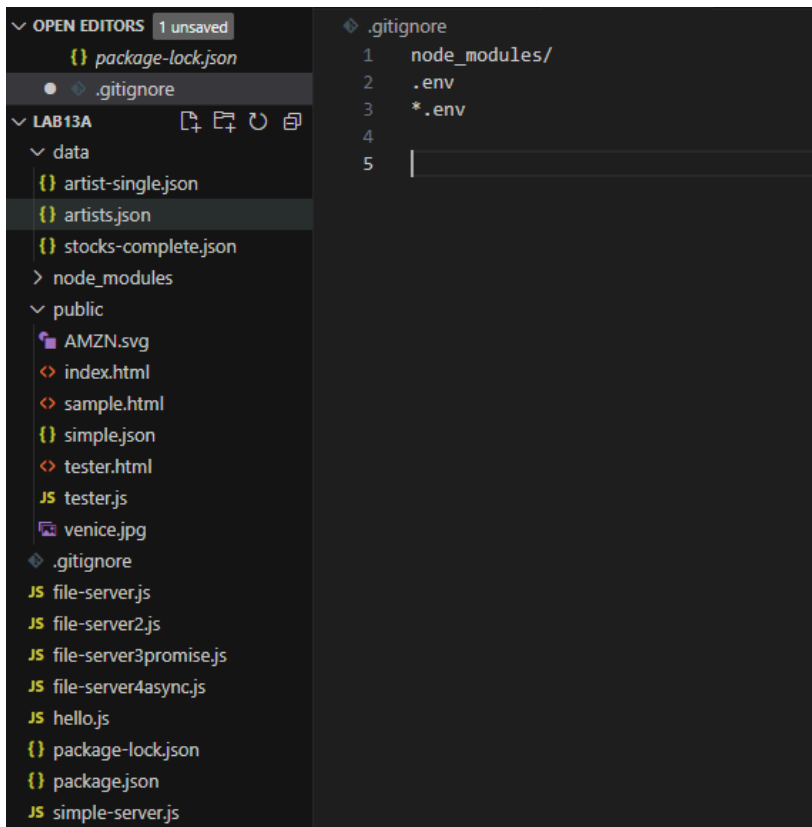Information Technology

Sub Industry

Application Software

Address

San Jose, California

Exchange

Nasdaq Global Select

Insert (HTTP POST) | Update (HTTP PUT) | Delete (HTTP DELETE)

6.

```
OPEN EDITORS     1 unsaved
    {} package-lock.json
  ●  ◈  .gitignore
LAB13A
  data
    {} artist-single.json
    {} artists.json
    {} stocks-complete.json
  > node_modules
  public
      AMZN.svg
    <> index.html
    <> sample.html
    {} simple.json
    <> tester.html
    JS tester.js
      venice.jpg
  ◈ .gitignore
  JS file-server.js
  JS file-server2.js
  JS file-server3promise.js
  JS file-server4async.js
  JS hello.js
  {} package-lock.json
  {} package.json
  JS simple-server.js
```

```
◈ .gitignore
1   node_modules/
2   .env
3   *.env
4
5   |
```

7.

```
1    const fs = require('fs');
2    const path = require('path');
3    const express = require('express');
4
5    // Read JSON file contents synchronously
6    const file = 'stocks-simple.json';
7    const jsonPath = path.join(__dirname, 'data', file);
8    const jsonData = fs.readFileSync(jsonPath, 'utf8');
9    const stocks = JSON.parse(jsonData);
10
11   // Create an express app
12   const app = express();
13
14   // Define the API routes
15   // Return all the stocks when a root request arrives
16   app.get('/', (req, res) => {
17       res.json(stocks);
18   });
19
20   // Use express to listen to port
21   const port = 8080;
22   app.listen(port, () => {
23       console.log("Server running at port= " + port);
24   });
```

8.

```
1  [
2      {
3          "symbol": "GOOGL",
4          "name": "Alphabet Inc Class A",
5          "SEC": "reports",
6          "sector": "Information Technology",
7          "subIndustry": "Internet Software & Services",
8          "address": "Mountain View, California",
9          "dateAdded": "4/3/2014",
10         "CIK": 1652044,
11         "frequency": 40
12      },
13      {
14         "symbol": "GOOG",
15         "name": "Alphabet Inc Class C",
16         "SEC": "reports",
17         "sector": "Information Technology",
18         "subIndustry": "Internet Software & Services",
19         "address": "Mountain View, California",
20         "dateAdded": "",
21         "CIK": 1652044,
22         "frequency": 14
23      },
24      {
25         "symbol": "RL",
26         "name": "Polo Ralph Lauren Corp.",
27         "SEC": "reports",
28         "sector": "Consumer Discretionary",
29         "subIndustry": "Apparel, Accessories & Luxury Goods",
30         "address": "New York, New York",
31         "dateAdded": "2/2/2007",
32         "CIK": 1037038,
33         "frequency": 1
34      }
35  ]
```

9.

Test Fetch (PUT/POST/DELETE)

Symbol

ADBE

Name

Adobe Systems Inc

Sector

Information Technology

Sub Industry

Application Software

Address

San Jose, California

Exchange

Nasdaq Global Select

[Insert (HTTP POST)] [Update (HTTP PUT)] [Delete (HTTP DELETE)]

10.

```
 1  [
 2      {
 3          "symbol": "AMZN",
 4          "name": "Amazon.com Inc",
 5          "SEC": "reports",
 6          "sector": "Consumer Discretionary",
 7          "subIndustry": "Internet & Direct Marketing Retail",
 8          "address": "Seattle, Washington",
 9          "dateAdded": "11/18/2005",
10          "CIK": 1018724,
11          "frequency": 31
12      }
```

11.

Test Fetch (PUT/POST/DELETE)

Symbol

ADBE

Name

Adobe Systems Inc

Sector

Information Technology

Sub Industry

Application Software

Address

San Jose, California

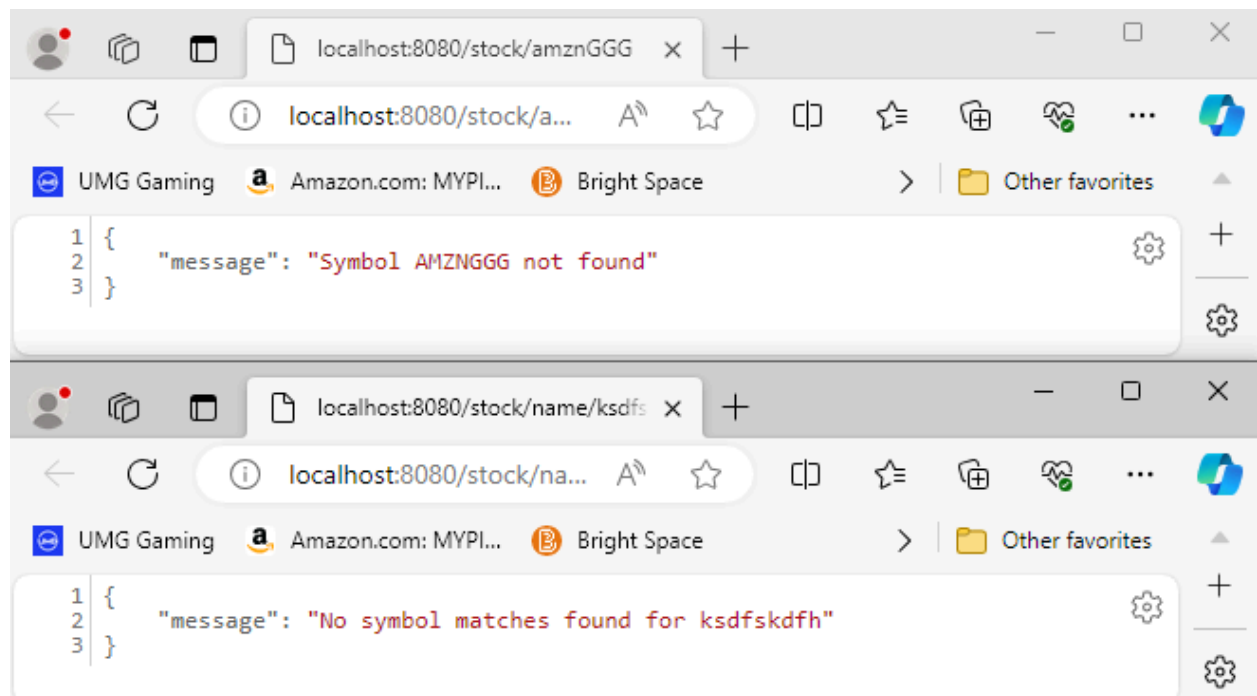**Exchange**

Nasdaq Global Select

[Insert (HTTP POST)] [Update (HTTP PUT)] [Delete (HTTP DELETE)]

Error — localhost:8080/stoc...

Cannot GET /stock/

localhost:8080/stock/amzn

```
[
    {
        "symbol": "AMZN",
        "name": "Amazon.com Inc",
        "SEC": "reports",
        "sector": "Consumer Discretionary",
        "subIndustry": "Internet & Direct Marketing Retail",
        "address": "Seattle, Washington",
        "dateAdded": "11/18/2005",
        "CIK": 1018724,
        "frequency": 31
    }
]
```

localhost:8080/stock/name/al...

```
[
    {
        "symbol": "GOOGL",
        "name": "Alphabet Inc Class A",
        "SEC": "reports",
        "sector": "Information Technology",
        "subIndustry": "Internet Software & Services",
        "address": "Mountain View, California",
        "dateAdded": "4/3/2014",
        "CIK": 1652044,
        "frequency": 40
    },
    {
        "symbol": "GOOG",
        "name": "Alphabet Inc Class C",
        "SEC": "reports",
        "sector": "Information Technology",
        "subIndustry": "Internet Software & Services",
        "address": "Mountain View, California",
        "dateAdded": "",
        "CIK": 1652044,
        "frequency": 14
    },
    {
        "symbol": "RL",
        "name": "Polo Ralph Lauren Corp.",
        "SEC": "reports",
        "sector": "Consumer Discretionary",
        "subIndustry": "Apparel, Accessories & Luxury Goods",
        "address": "New York, New York",
        "dateAdded": "2/2/2007",
        "CIK": 1037038,
        "frequency": 1
    }
]
```

12.

```
1  {
2      "message": "Symbol AMZNGGG not found"
3  }
```

```
1  {
2      "message": "No symbol matches found for ksdfskdfh"
3  }
```

13.

```json
[
    {
        "symbol": "MMM",
        "name": "3M Company",
        "SEC": "reports",
        "sector": "Industrials",
        "subIndustry": "Industrial Conglomerates",
        "address": "St. Paul, Minnesota",
        "dateAdded": "",
        "CIK": 66740,
        "frequency": 8
    },
    {
        "symbol": "ABT",
        "name": "Abbott Laboratories",
        "SEC": "reports",
        "sector": "Health Care",
        "subIndustry": "Health Care Equipment",
        "address": "North Chicago, Illinois",
        "dateAdded": "3/31/1964",
        "CIK": 1800,
        "frequency": 5
    },
    {
        "symbol": "ABBV",
        "name": "AbbVie",
        "SEC": "reports",
        "sector": "Health Care",
        "subIndustry": "Pharmaceuticals",
        "address": "North Chicago, Illinois",
        "dateAdded": "12/31/2012",
        "CIK": 1551152,
        "frequency": 8
    },
    {
        "symbol": "ACN",
        "name": "Accenture plc",
        "SEC": "reports",
        "sector": "Information Technology",
        "subIndustry": "IT Consulting & Other Services",
        "address": "Dublin, Ireland",
        "dateAdded": "7/6/2011",
        "CIK": 1467373,
        "frequency": 7
    },
    {
        "symbol": "ATVI",
        "name": "Activision Blizzard",
        "SEC": "reports",
        "sector": "Information Technology",
        "subIndustry": "Home Entertainment Software",
        "address": "Santa Monica, California",
        "dateAdded": "8/31/2015",
        "CIK": 718877,
        "frequency": 11
    },
    {
        "symbol": "AYI",
        "name": "Acuity Brands Inc",
        "SEC": "reports",
        "sector": "Industrials",
        "subIndustry": "Electrical Components & Equipment",
        "address": "Atlanta, Georgia",
        "dateAdded": "5/3/2016",
        "CIK": 1144215,
        "frequency": 7
    },
```

TK.

```
1  [
2      {
3          "ArtistID": "129",
4          "FirstName": "Lawrence",
5          "LastName": "Alma-Tadema",
6          "Nationality": "Netherlands",
7          "Gender": "M",
8          "YearOfBirth": "1836",
9          "YearOfDeath": "1912",
10         "Details": "Sir Lawrence Alma-Tadema (born Lourens Alma Tadema) was a Dutch painter of special
   British denizenship. Born in Dronrijp, the Netherlands, and trained at the Royal Academy of Antwerp,
   Belgium, he settled in England in 1870 and spent the rest of his life there. A classical-subject
   painter, he became famous for his depictions of the luxury and decadence of the Roman Empire, with
   languorous figures set in fabulous marbled interiors or against a backdrop of dazzling blue
   Mediterranean Sea and sky. Though admired during his lifetime for his draftsmanship and depictions of
   Classical antiquity, his work fell into disrepute after his death, and only since the 1960s has it been
   re-evaluated for its importance within nineteenth-century English art.",
11         "ArtistLink": "https://en.wikipedia.org/wiki/Lawrence_Alma-Tadema"
12     },
```