Lab 3.1 - Deliver Data from a Library API

The labs-1 folder contains the following files:

- **data.js**
- **package.json**
- **validate.js**

The **data.js** file contains the following:

```
'use strict'
const { promisify } = require('util')
const { randomBytes } = require('crypto')
const timeout = promisify(setTimeout)

async function data () {
  await timeout(50)
  return randomBytes(10).toString('base64')
}

module.exports = data
```

The **data.js** file exports a function that returns a promise (an **async** function) that resolves to a random BASE64 string. This function represents some kind of asynchronous data source.

The **package.json** file contains the following:

```
{
  "name": "labs-1",
```

```
  "scripts": {
    "start": "echo \"TODO: SET THE START SCRIPT\" && exit 1"
  }
}
```

Using any Node core library and/or web framework create an HTTP server that meets the following criteria:
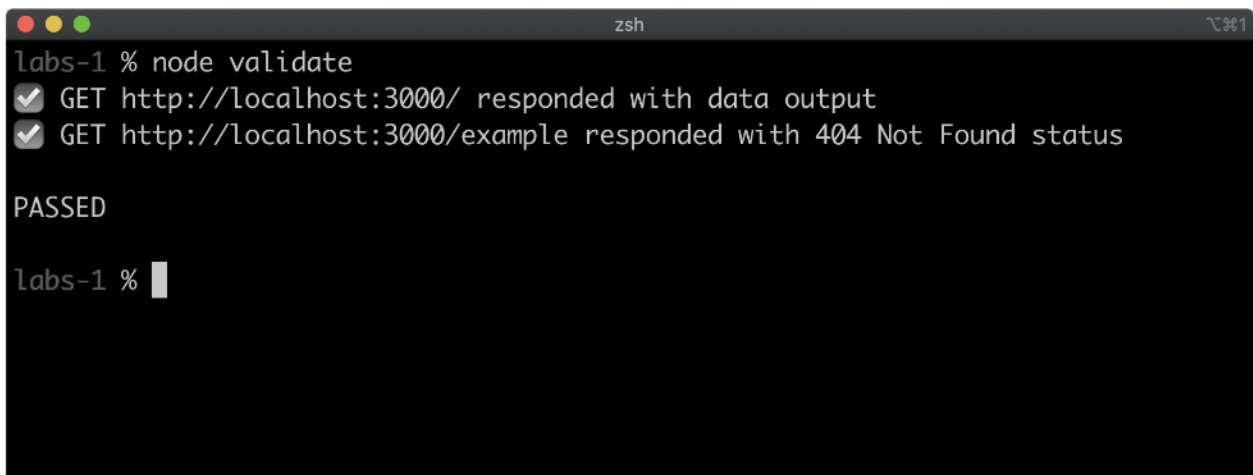
- Listens on localhost
- Listens on port 3000
- Responds to HTTP GET requests to **/** with data from the **data** function as exported from the **data.js**
- Responds with a 404 to GET requests to any other route

The **package.json start** script must contain a command to start the server.

Run the following command to check whether the created server meets the criteria:

node validate

If the server was correctly implemented, the output of this command should be as follows:

```
labs-1 % node validate
✅ GET http://localhost:3000/ responded with data output
✅ GET http://localhost:3000/example responded with 404 Not Found status

PASSED

labs-1 %
```