Exercise (Instructions): Introduction to Express

In this exercise, you will make use of the Express framework to implement similar functionality as implemented by the HTTP module based servers in the previous exercise. At the end of this exercise, you will be able to:

* Implement a simple web server using Express framework
* Implement a web server that serves static content

A Simple Server using Express

* Create a folder named *node-express* in the *NodeJS* folder and move to that folder.
* Copy the *public* folder from *node-http* to this folder.
* At the prompt, type the following to initialize a package.json file in the node-express folder: (**npm init**)
* Accept the standard defaults suggested until you end up with a package.json file containing the following:

{

  "name": "node-express",

  "version": "1.0.0",

  "description": "Node Express Examples",

  "main": "index.js",

  "scripts": {

    "test": "echo \"Error: no test specified\" && exit 1",

**"start": "node index"**

  },

  "author": "Asad",

  "license": ""

}

* Then, install the Express framework in the folder by typing the following at the prompt:(**npm install express --save**)
* Create a file named *index.js* and add the following code to it:

const express = require('express'),

     http = require('http');

const hostname = 'localhost';

const port = 3000;

const app = express();

app.use((req, res, next) => {

  console.log(req.headers);

  res.statusCode = 200;

  res.setHeader('Content-Type', 'text/html');

  res.end('<html><body><h1>This is an Express Server</h1></body></html>');

});

const server = http.createServer(app);

server.listen(port, hostname, () => {

  console.log(`Server running at http://${hostname}:${port}/`);

});

* Start the server by typing the following at the prompt, and then interact with the server:(**npm start**)

**Serving Static File**

* Install *morgan* by typing the following at the prompt. Morgan is used for logging purposes:

**npm install morgan --save**

* Update *index.js* as follows:

. . .

const morgan = require('morgan');

. . .

app.use(morgan('dev'));

app.use(express.static(\_\_dirname + '/public'));

. . .