

Experiment 2

First Application in Node.js

Experiment 2: First Application in Node JS

Lab Objective: Set up a first application in Node JS.

Step 1: Set Up a Project Directory

```
PS C:\Users\91959\Desktop\Collage\3rd_year\Gulsan_Sir\Backend> mkdir my-node-app

Directory: C:\Users\91959\Desktop\Collage\3rd_year\Gulsan_Sir\Backend

Mode          LastWriteTime    Length Name
----          -----          ----  --
d-----      02-09-2025     20:38   my-node-app

PS C:\Users\91959\Desktop\Collage\3rd_year\Gulsan_Sir\Backend> cd my-node-app
PS C:\Users\91959\Desktop\Collage\3rd_year\Gulsan_Sir\Backend\my-node-app> |
```

Step 2: Initialize a Node.js Project

- PS C:\Users\91959\Desktop\Collage\3rd_year\Gulsan_Sir\Backend\my-node-app> npm init -y
Wrote to C:\Users\91959\Desktop\Collage\3rd_year\Gulsan_Sir\Backend\my-node-app\package.json:

```
{
  "name": "my-node-app",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \\"Error: no test specified\\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "type": "commonjs"
}
```

Step 3: Install Dependencies

- PS C:\Users\91959\Desktop\Collage\3rd_year\Gulsan_Sir\Backend\my-node-app> npm install express
added 67 packages, and audited 68 packages in 4s
14 packages are looking for funding
 run `npm fund` for details
found 0 vulnerabilities

Step 4: Create Your First Node.js File

```
● PS C:\Users\91959\Desktop\Collage\3rd_year\Gulsan_Sir\Backend\my-node-app> touch app.js
Touching app.js
```

```
● ● ●
1 const http = require("http");
2 const hostname = "127.0.0.1";
3 const port = 3000;
4 const server = http.createServer((req, res) => {
5     res.statusCode = 200;
6     res.setHeader("Content-Type", "text/plain");
7     res.end("Hello World\n");
8 });
9 server.listen(port, hostname, () => {
10     console.log(`Server running at http://${hostname}:${port}/`);
11 })
```

Step 5: Run the Node.js Application

```
● PS C:\Users\91959\Desktop\Collage\3rd_year\Gulsan_Sir\Backend\my-node-app> node app.js
Server running at http://127.0.0.1:3000/
```

