

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/
```

