

Lesson 05 Demo 07 Implementing APIs in Node.js

Objective: To create a Node.js app using the fetch API for fetching the list of users from the server

Tools required: Node Package Manager and Visual Studio Code

Prerequisites: Basic Linux Commands, NPM commands, JavaScript, and fetch module

Steps to be followed:

1. Install the fetch API package

2. Create a Node.js app to fetch users

Step 1: Install the fetch API Package

1.1 Open the terminal and inside the project directory execute the following command to initialize a Node.js project and generate the package.json file:
npm init -y



1.2 Open the terminal and inside the project directory execute the following command to the fetch API package:

npm install node-fetch@latest

```
1: labuser@ubuntu2204: ~/Desktop/nodeProjec/demo4 ▼
                                                                           AĨ +
labuser@ubuntu2204:~/Desktop/nodeProjec/demo4$ npm install node-fetch@latest
           New patch version of npm available! 10.2.4 -> 10.2.5
npm
    notice
           Changelog: https://github.com/npm/cli/releases/tag/v10.2.5
npm
   notice Run npm install -g npm@10.2.5 to update!
npm
npm
         code EACCES
npm
         syscall mkdir
npm
         path /home/labuser/node modules/fsevents
npm
npm
         errno -13
npm
         Error: EACCES: permission denied, mkdir '/home/labuser/node modules/fse
vents'
npm
          [Error: EACCES: permission denied, mkdir '/home/labuser/node_modules/f
sevents'] {
                                                Ι
npm
           errno: -13,
           code: 'FACCES'
```

Step 2: Create a Node.js app to fetch users

2.1 Create a new source file named index.js and enter the below code:
const fetch = (...args) => import('node-fetch').then(({ default: fetch }) => fetch(...args));

```
fetch("https://reqres.in/api/users?page=2")
   .then((value) => value.json())
   .then((res) => {
      let users = res['data'];
      console.log(users);
   })
```



2.2 Execute the following command in the terminal to run the Node.js app: node index.js

```
demopythonlyopm@ip-172-31-16-204:~/Desktop/nodeProjec/demo4$ node index.js
    id: 7,
email: 'michael.lawson@reqres.in',
    first_name: 'Michael',
last_name: 'Lawson',
    avatar: 'https://reqres.in/img/faces/7-image.jpg'
    id: 8,
email: 'lindsay.ferguson@reqres.in',
    first_name: 'Lindsay',
last name: 'Ferguson',
    avatar: 'https://reqres.in/img/faces/8-image.jpg'
    id: 9,
email: 'tobias.funke@reqres.in',
    first_name: 'Tobias',
last_name: 'Funke',
avatar: 'https://reqres.in/img/faces/9-image.jpg'
    id: 10,
email: 'byron.fields@reqres.in',
first_name: 'Byron',
last_name: 'Fields',
    avatar: 'https://reqres.in/img/faces/10-image.jpg'
    id: 11,
email: 'george.edwards@reqres.in',
    first_name: 'George',
last_name: 'Edwards',
    avatar: 'https://reqres.in/img/faces/11-image.jpg'
    id: 12,
email: 'rachel.howell@regres.in',
    first_name: 'Rachel',
last_name: 'Howell',
    avatar: 'https://reqres.in/img/faces/12-image.jpg'
```

By following these steps, you have successfully created a Node.js app using the fetch API for fetching the list of users from the server.