

Lesson 07 Demo 01 Consuming GitHub API Using Node.js

Objective: To fetch GitHub user data in Node.js application using GitHub API

Tools required: Node.js

Prerequisites: GitHub account

Steps to be followed:

1. Set up a Node.js project

2. Install required packages

3. Create a JavaScript script to fetch user data from GitHub

Step 1: Set up a Node.js project

1.1 Launch the lab, then open the terminal and check the node.js version by using the command **node --version**



1.2 Create a directory for your Node.js project and then switch to that directory by using the below commands:

mkdir github-api-demo cd github-api-demo





1.3 Now, initialize the Node.js project by using the command **npm init**

Step 2: Install required packages

2.1 Install Axios package by using the command npm install axios

```
File Edit View Search Terminal Help

Wrote to /github-api-demo/package.json:

{
    "name": "github-api-demo",
    "version": "1.0.0",
    "description": "",
    "main": "index.js",
    "scripts": {
        "test": "echo "Error: no test specified\" && exit 1"
    },
    "keywords": [],
    "author": "",
    "license": "ISC"
}

rot@ip-172-31-46-200:/github-api-demo# npm install axios
added 9 packages, and audited 10 packages in 790ms

1 package is looking for funding
    run 'npm fund' for details

found 0 vulnerabilities

New major version of npm available! 8.1.4 -> 10.2.5
    Changelog: https://github.com/npm/cli/releases/tag/v10.2.5
    Run npm install -g npm@10.2.5 to update!

root@ip-1/2-31-4b-200:/github-api-demo#

root@ip-1/2-31-4b-200:/github-api-demo#

root@ip-1/2-31-4b-200:/github-api-demo#

root@ip-1/2-31-4b-200:/github-api-demo#
```



Step 3: Create a JavaScript script to fetch user data from GitHub

3.1 Inside the github-api-demo directory, create a file named as **index.js** by using the command **touch index.js**

```
File Edit View Search Terminal Help
root@ip-172-31-46-200:/home/prakharguptasim# touch index.js
root@ip-172-31-46-200:/home/prakharguptasim#
```

3.2 Open the file by using the command vi index.js

```
File Edit View Search Terminal Help
root@ip-172-31-46-200:/home/prakharguptasim# vi index.js
```

3.3 Now, paste the below code inside the file, and then save the file

```
const axios = require('axios');
async function getUser(username) {
try {
const response = await axios.get(`https://api.github.com/users/${username}`);
console.log(response.data);
} catch (error) {
console.error(error);}}
getUser('octocat'); // Replace 'octocat' with any GitHub usernam
```

Note: In the above code, replace **octocat** with your Github username

```
File Edit View Search Terminal Help
const axios = require('axios');

async function getUser(username) {
    try {
        const response = await axios.get(`https://api.github.com/users/${username}`);
        console.log(response.data);
    } catch (error) {
        console.error(error);}}

getUser('Simpli1234'); // Replace 'octocat' with any GitHub usernam
```



3.4 Now, run the index.js file by using the command node index.js to get a response

By following the above steps, you have successfully fetched user's data using the GitHub API.