

Aung Phone Kyaw

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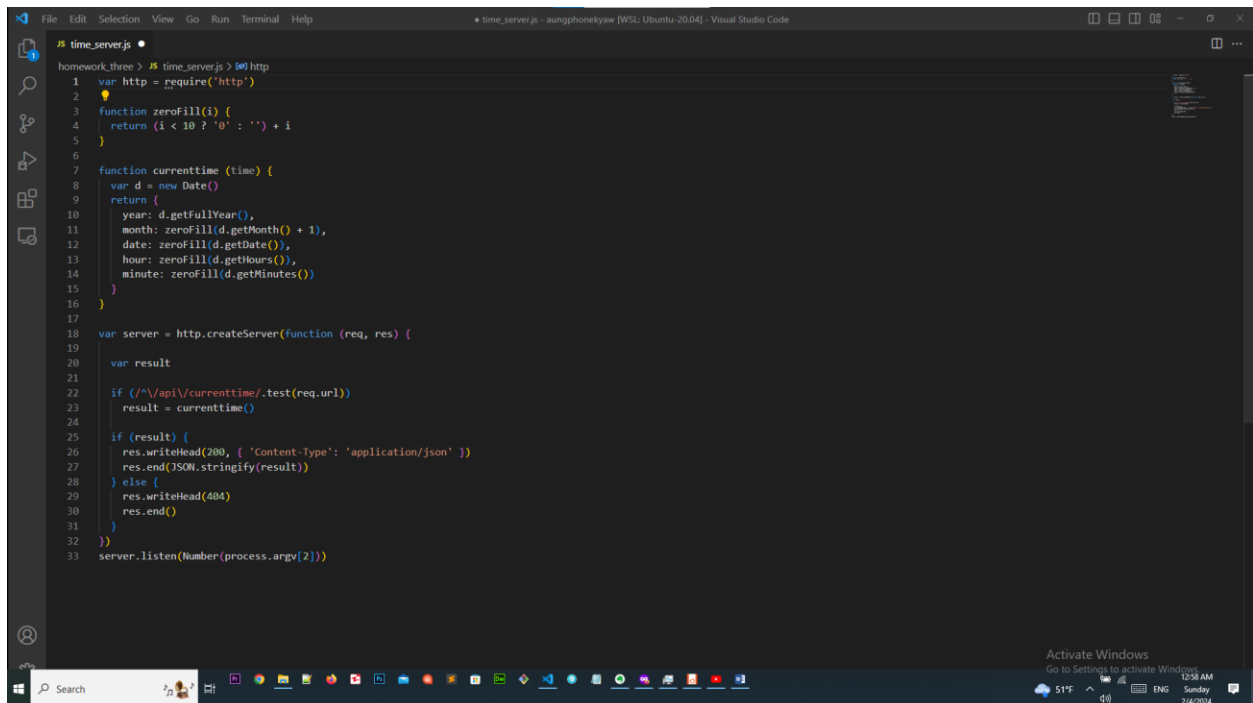
CS571

Week 3, Question 13

### Install node.js on ubuntu

For this process, I have already done it for the assignment two so I not be adding them for this time.

### Modify http json api server



```
time_server.js
1 var http = require('http')
2
3 function zerofill(i) {
4   return (i < 10 ? '0' : '') + i
5 }
6
7 function currenttime (time) {
8   var d = new Date()
9   return {
10     year: d.getFullYear(),
11     month: zerofill(d.getMonth() + 1),
12     date: zerofill(d.getDate()),
13     hour: zerofill(d.getHours()),
14     minute: zerofill(d.getMinutes())
15   }
16 }
17
18 var server = http.createServer(function (req, res) {
19   var result
20
21   if (/^\/api\/currenttime\/.test(req.url))
22     result = currenttime()
23
24   if (result) {
25     res.writeHead(200, { 'Content-Type': 'application/json' })
26     res.end(JSON.stringify(result))
27   } else {
28     res.writeHead(404)
29     res.end()
30   }
31 })
32 server.listen(Number(process.argv[2]))
```

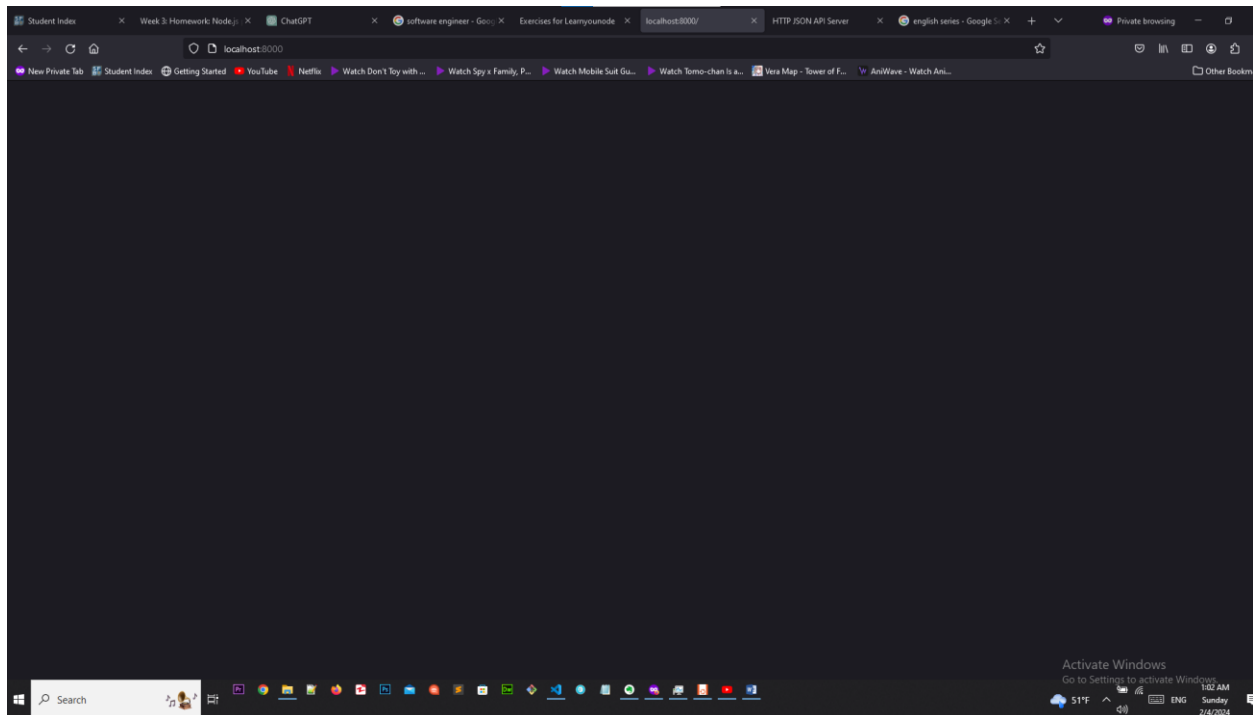
This is my code to get this output format on the browser  
{ "year": 2021, "month": 09, "date": 24, "hour": 16, "minute": 09 }

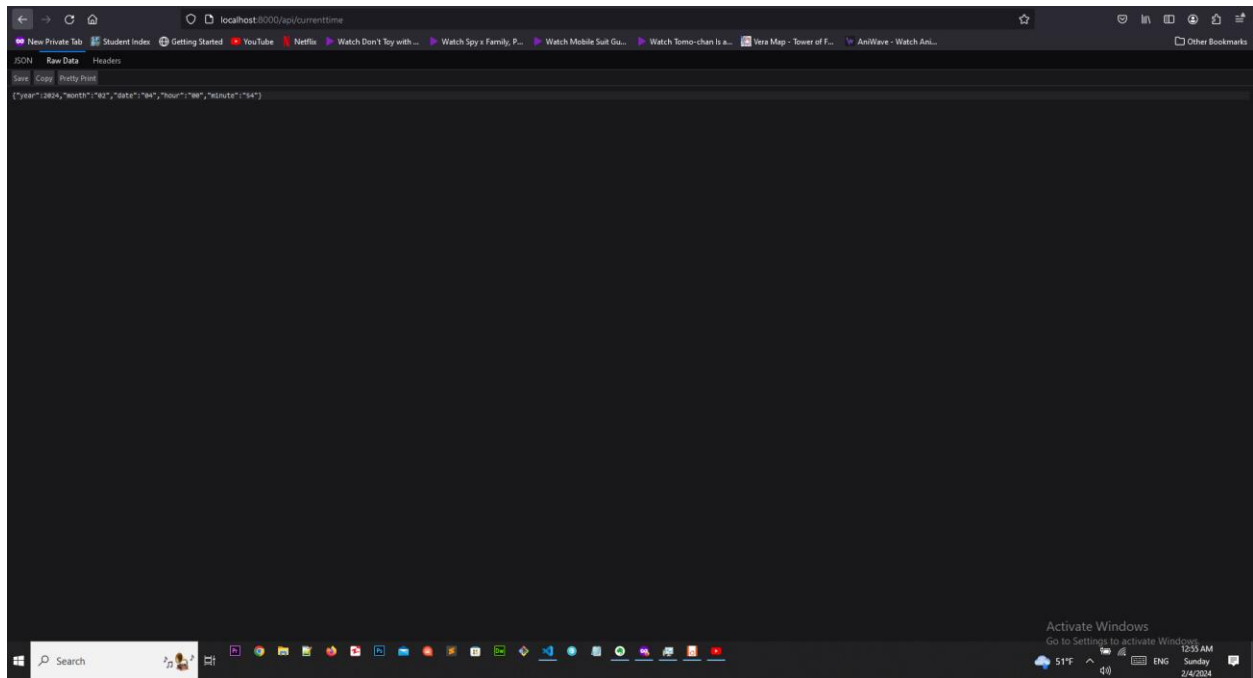
The screenshot shows the Visual Studio Code editor interface. The main editor window displays the file `time_server.js` with the following code:

```
1 var http = require('http')
2
3 function zeroFill(i) {
4   return (i < 10 ? '0' : '') + i
5 }
6
7 function currentTime (time) {
8   var d = new Date()
9   return {
10     year: d.getFullYear(),
11     month: zeroFill(d.getMonth() + 1),
12     date: zeroFill(d.getDate()),
13     hour: zeroFill(d.getHours()),
14     minute: zeroFill(d.getMinutes())
15   }
16 }
17
18 var server = http.createServer(function (req, res) {
```

The terminal window at the bottom shows the command `node time_server.js 8000` being executed. The terminal output is currently empty.

I will run the code using the command `node time_server.js 8000`





You would not see the output result unless you enter the correct url path  
localhost:8000/api/currenttime

The output values month, date, hour and minute are in string format since I want these values to be double digits value and I can only get it done in string format. If I convert to integer it will return single digit for the single values.

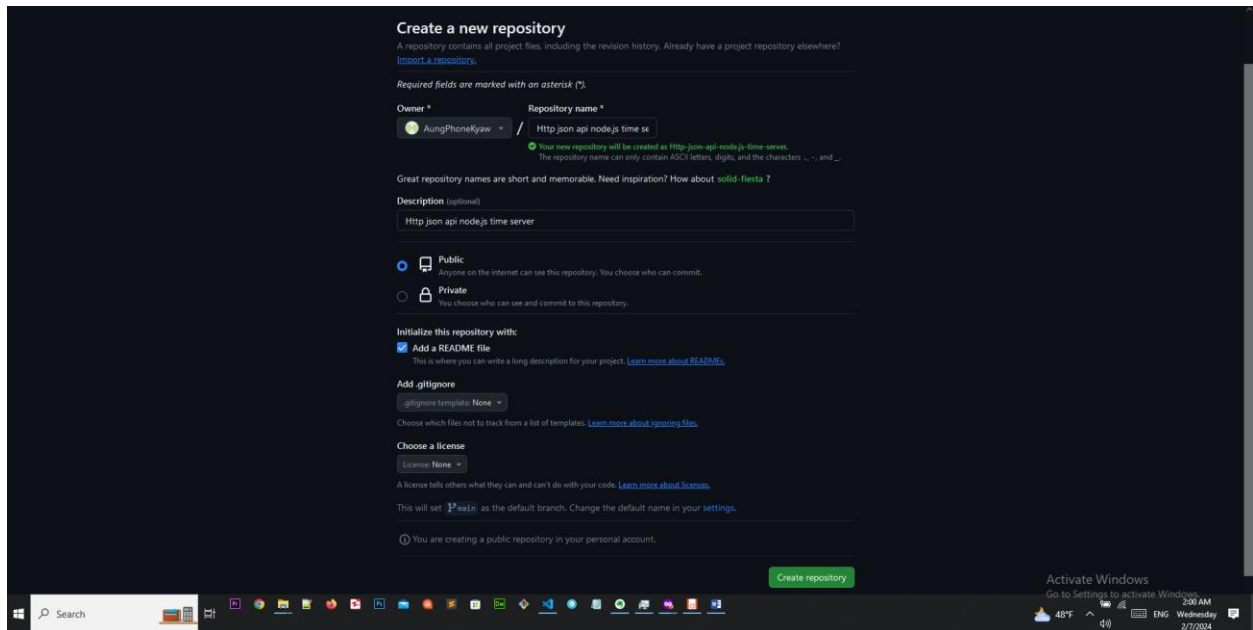
## **Documentation**

**Please create google slide presentation to document the project**

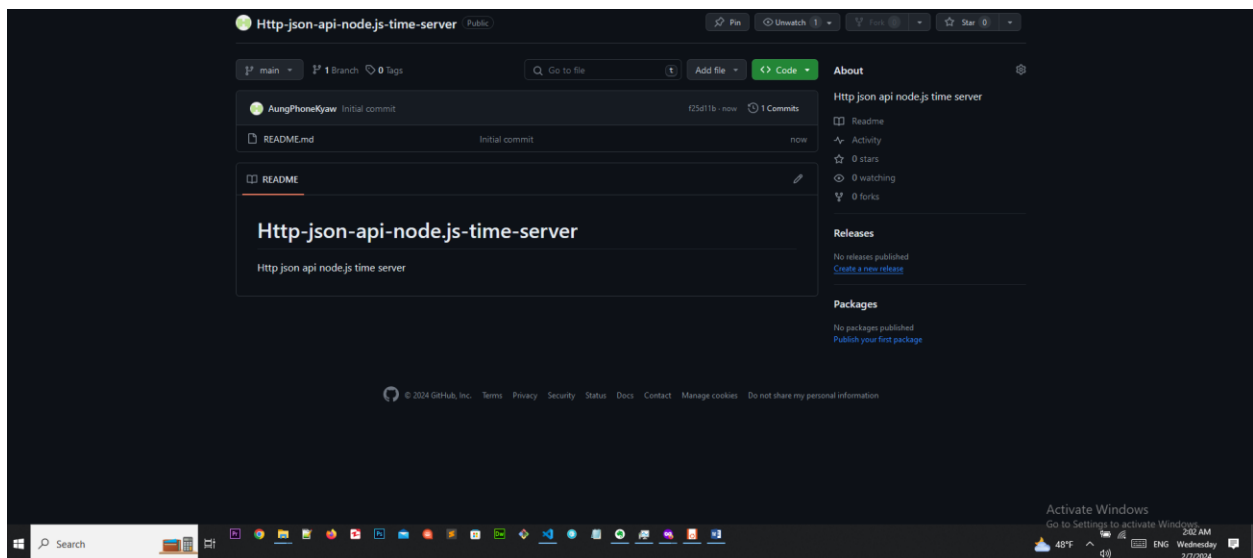
[https://docs.google.com/presentation/d/191J-jykKpywSADPzC3nWzMaLZXweusseR6PozOeF\\_Ho/edit?usp=sharing](https://docs.google.com/presentation/d/191J-jykKpywSADPzC3nWzMaLZXweusseR6PozOeF_Ho/edit?usp=sharing)

This is the presentation file link that I have created based on the project.

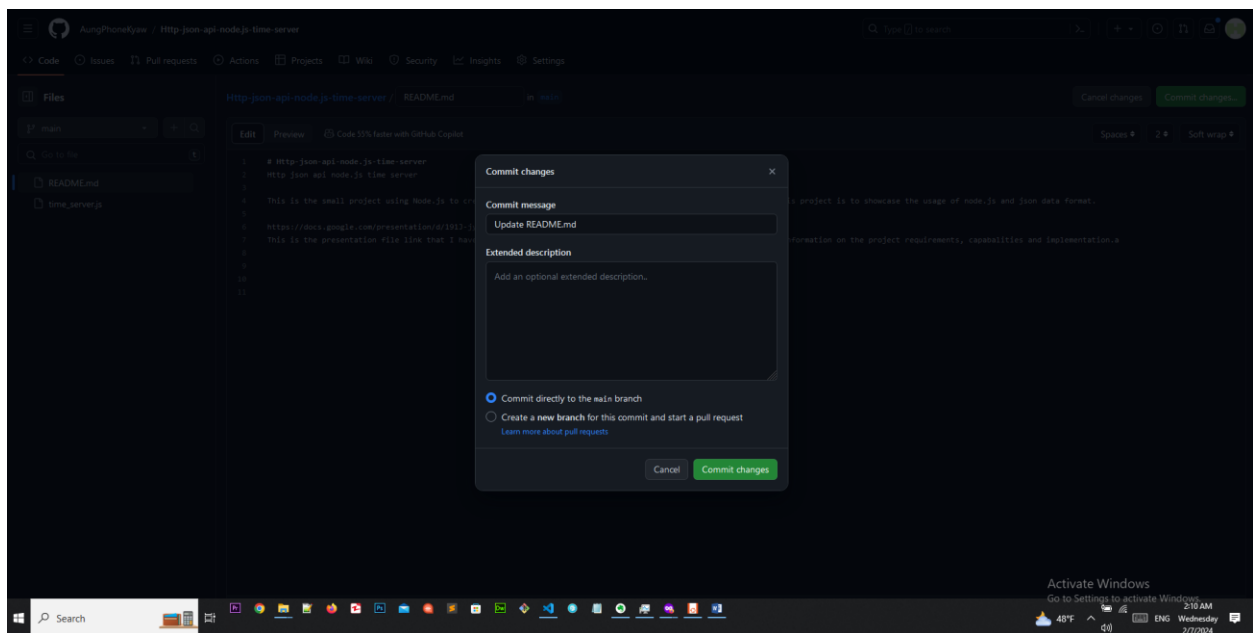
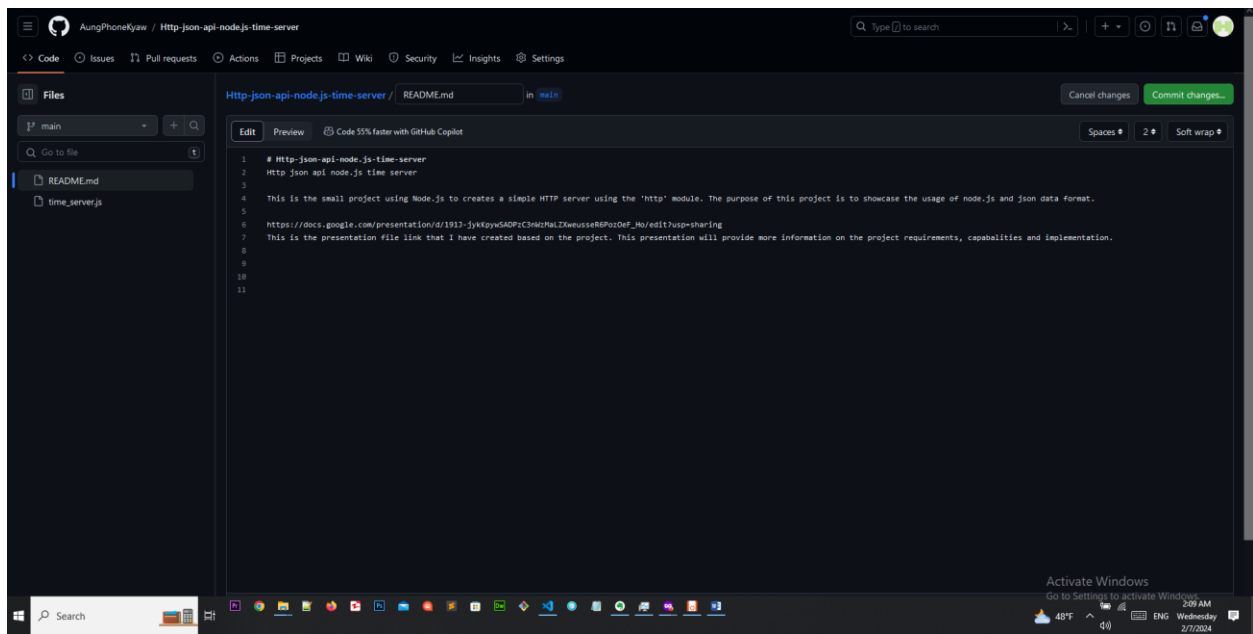
## Please add your google slides presentation on github



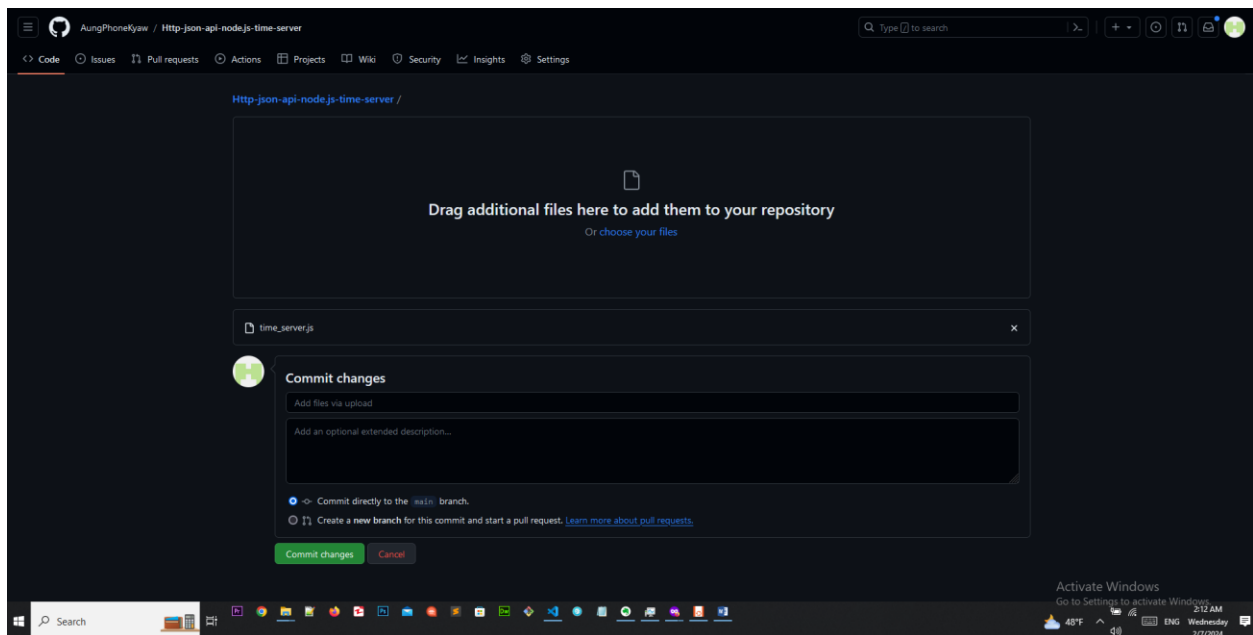
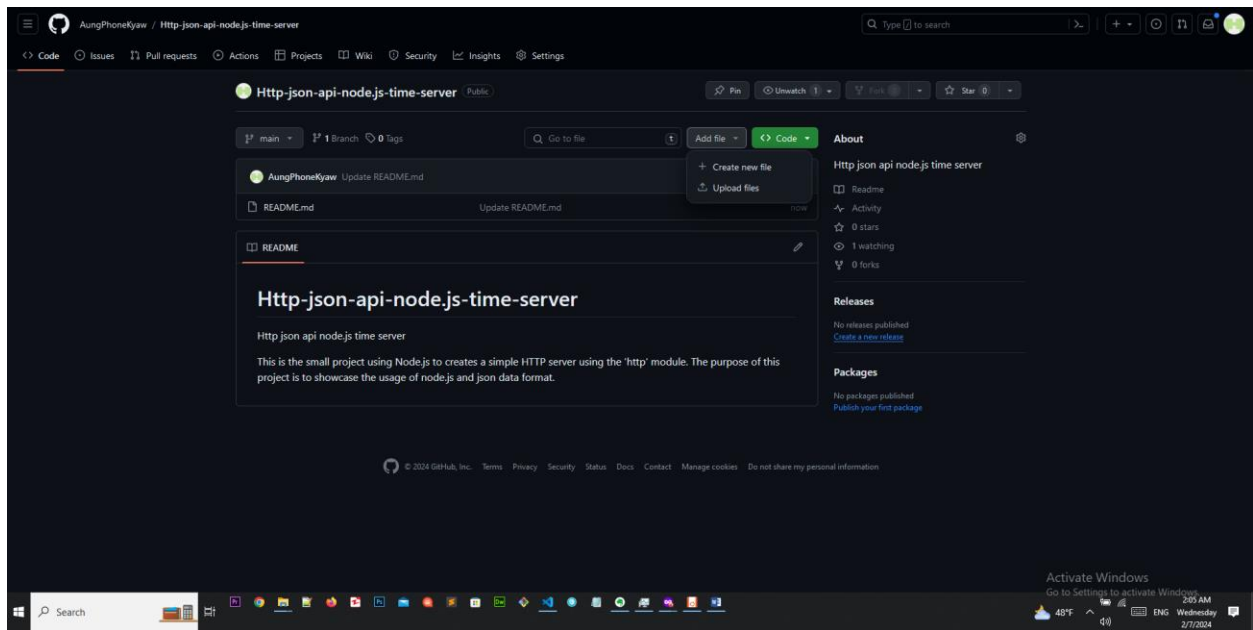
Create the project with the preferred name, description, check add read me file and add create repository.



Project repository successfully created.



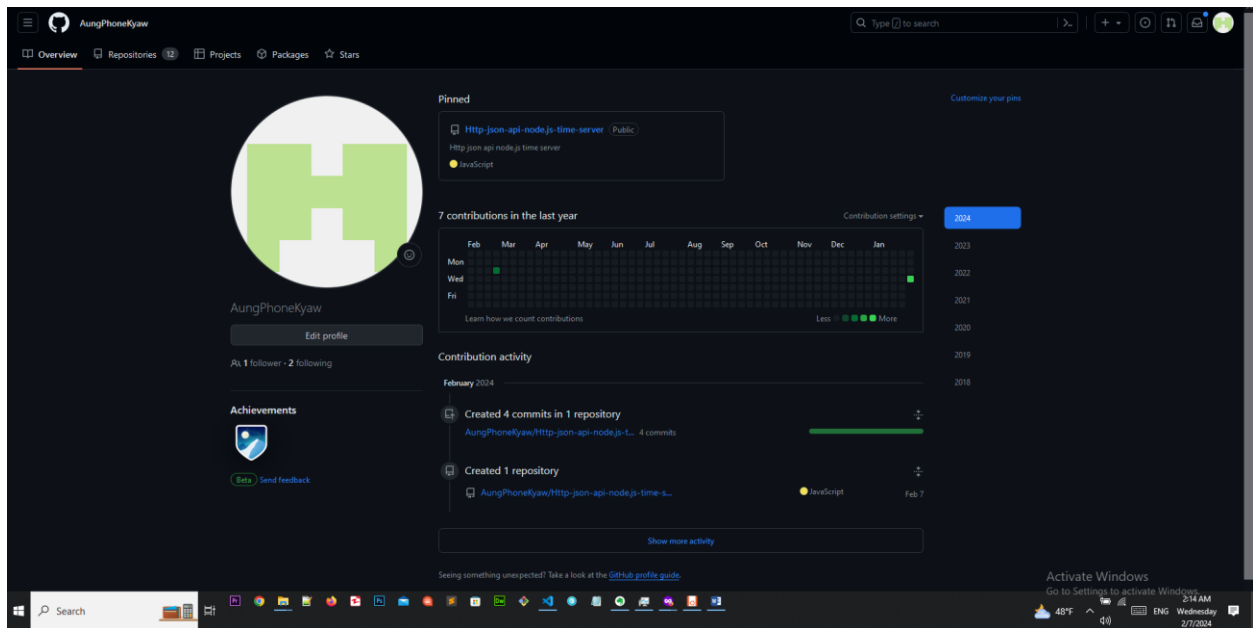
Add more description and presentation file link of the project in read me file.



Click upload file to upload your code file.

<https://github.com/AungPhoneKyaw/Http-json-api-node.js-time-server>

This is the link of my project github repository link.



You can check the list of the technology if you go to your profile

<https://github.com/AungPhoneKyaw/Http-json-api-node.js-time-server>

This is the link to my project repository