

Chapter 3 Lab Work: Processes and Threads

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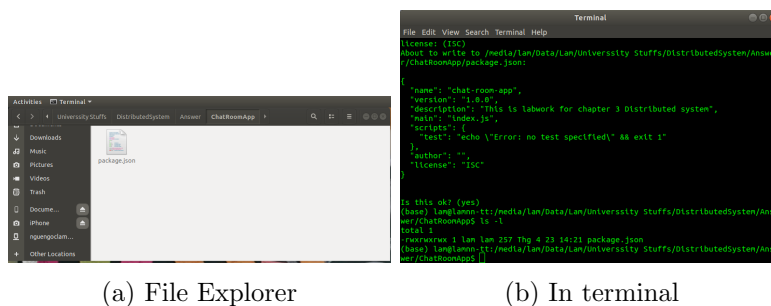
Tuesday 21st April, 2020

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1 New File on ChatRoomApp folder

The new file in said folder is package.json. This file holds various metadata relevant to the project. This file is used to give information to npm that allows it to identify the project as well as handle the project's dependencies. It can also contain other metadata such as a project description, the version of the project in a particular distribution, license information, even configuration data - all of which can be vital to both npm and to the end users of the package. The package.json file is normally located at the root directory of a Node.js project.



(a) File Explorer

(b) In terminal

Figure 1: New file

2 Message On Port 3000

If you access to '127.0.0.1:3000' (or localhost:3000), the display message on the screen is hello world in plain text.

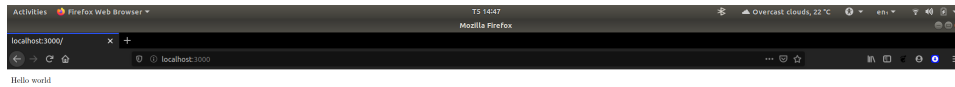


Figure 2: Screenshot of the web browser

3 Try Reload the Web Browser After Added socket.io

The console does not change since it is still 1 'user' that connected to print hello world

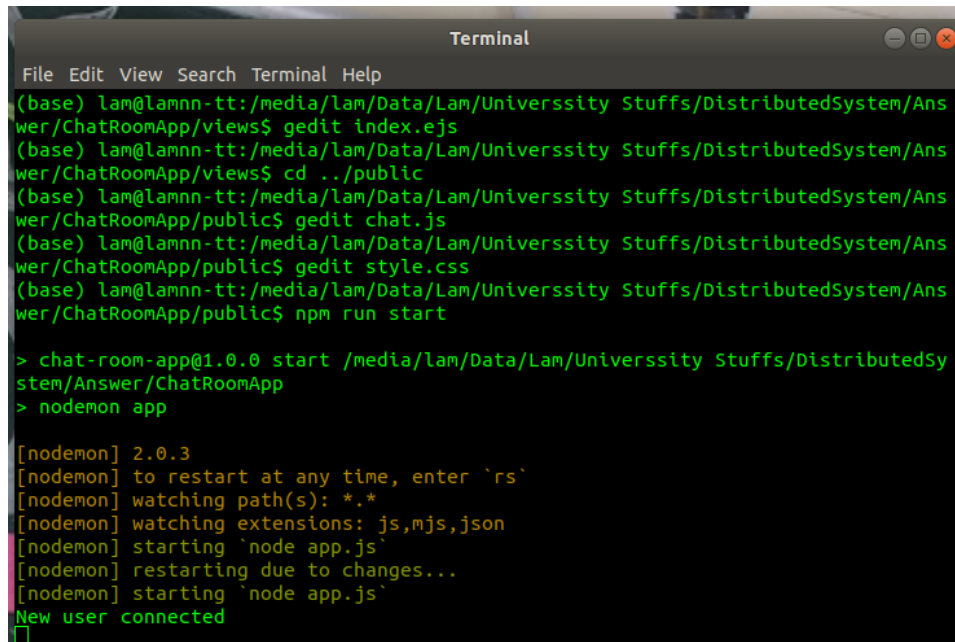
```
Terminal
File Edit View Search Terminal Help
npm ERR! <https://github.com/npm/npm/issues>
npm ERR! Please include the following file with any support request:
npm ERR! /media/lam/Data/Lam/Universsity Stuffs/DistributedSystem/Answer/ChatRoomApp/npm-debug.log
(base) lam@lamnn-tt:/media/lam/Data/Lam/Universsity Stuffs/DistributedSystem/Answer/ChatRoomApp$ gedit app.js
(base) lam@lamnn-tt:/media/lam/Data/Lam/Universsity Stuffs/DistributedSystem/Answer/ChatRoomApp$ npm run start
> chat-room-app@1.0.0 start /media/lam/Data/Lam/Universsity Stuffs/DistributedSystem/Answer/ChatRoomApp
> nodemon app

[nodemon] 2.0.3
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node app.js`
[nodemon] restarting due to changes...
[nodemon] starting `node app.js`
rs
[nodemon] starting `node app.js`
^C
```

Figure 3: Screenshot of the console after added socket.io

4 Try Reload the Web Browser After Fixed the Route and Added Style

This time, there is 'New User Connected' on the console



```
Terminal
File Edit View Search Terminal Help
(base) lam@lamnn-tt:/media/lam/Data/Lam/Universsity Stuffs/DistributedSystem/Answer/ChatRoomApp/views$ gedit index.ejs
(base) lam@lamnn-tt:/media/lam/Data/Lam/Universsity Stuffs/DistributedSystem/Answer/ChatRoomApp/views$ cd ../public
(base) lam@lamnn-tt:/media/lam/Data/Lam/Universsity Stuffs/DistributedSystem/Answer/ChatRoomApp/public$ gedit chat.js
(base) lam@lamnn-tt:/media/lam/Data/Lam/Universsity Stuffs/DistributedSystem/Answer/ChatRoomApp/public$ gedit style.css
(base) lam@lamnn-tt:/media/lam/Data/Lam/Universsity Stuffs/DistributedSystem/Answer/ChatRoomApp/public$ npm run start

> chat-room-app@1.0.0 start /media/lam/Data/Lam/Universsity Stuffs/DistributedSystem/Answer/ChatRoomApp
> nodemon app

[nodemon] 2.0.3
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node app.js`
[nodemon] restarting due to changes...
[nodemon] starting `node app.js`
New user connected
```

Figure 4: Screenshot of the console after fixed route and added style

5 End Product

When 1 user is typing something on his or her instance, other people can see the line '<username> is typing a message..' on top of the chatbox, in italic. When said user send the message, everyone will see a box with content as <username>: <message> in blue.

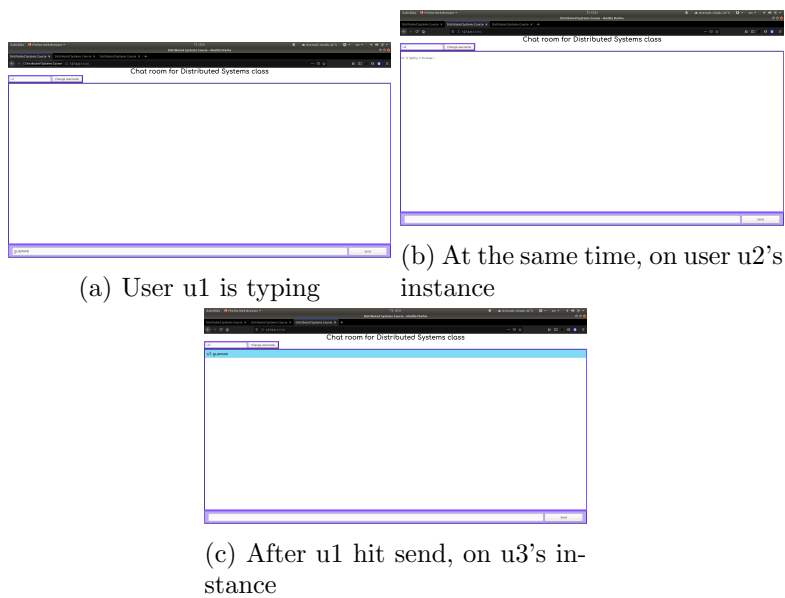


Figure 5: Final Product