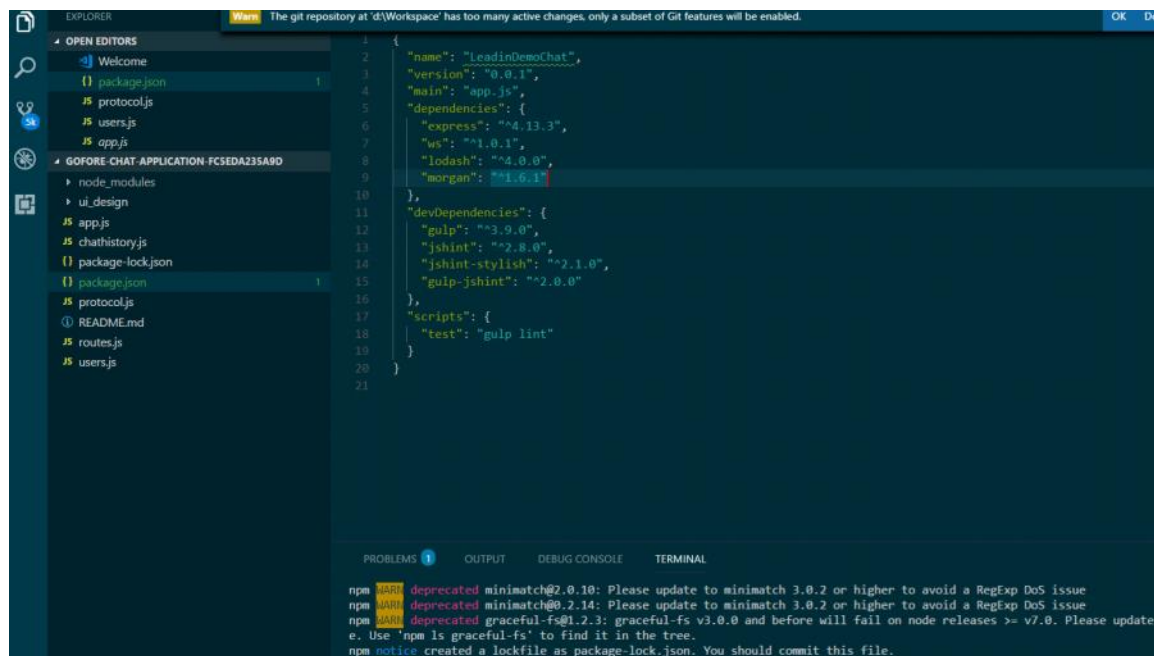


## Project test for Roope and Harri

Unzipped the project into folder.

Promptly forgot about the code, where the hell is the simple server implicit in NodeJS. I've never heard of it!

After some thought I crack open VS Code and navigate to the folder. Boom....open and kick off the Powershell terminal.



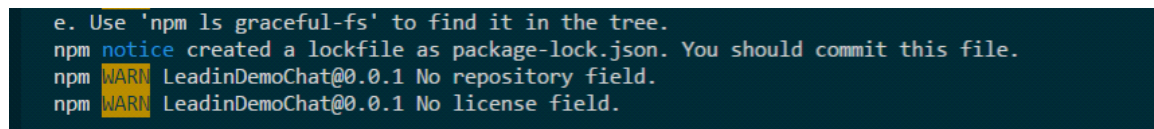
The screenshot shows the VS Code interface. The Explorer sidebar on the left shows a project named 'GOFOR-CHAT-APPLICATION-FC5EDA235A9D' with files like 'package.json', 'protocol.js', 'users.js', 'app.js', 'node\_modules', 'ui\_design', 'app.js', 'chathistory.js', 'package-lock.json', 'README.md', 'routes.js', and 'users.js'. The main editor area displays the 'package.json' file with the following content:

```
1 {
2   "name": "LeadinDemoChat",
3   "version": "0.0.1",
4   "main": "app.js",
5   "dependencies": {
6     "express": "^4.13.3",
7     "ws": "^1.0.1",
8     "lodash": "^4.0.0",
9     "morgan": "^1.6.1",
10  },
11  "devDependencies": {
12    "gulp": "^3.9.0",
13    "jshint": "^2.8.0",
14    "jshint-stylish": "^2.1.0",
15    "gulp-jshint": "^2.0.0"
16  },
17  "scripts": {
18    "test": "gulp lint"
19  }
20 }
21
```

The terminal window at the bottom shows the output of running 'npm install':

```
npm WARN deprecated minimatch@2.0.10: Please update to minimatch 3.0.2 or higher to avoid a RegExp DoS issue
npm WARN deprecated minimatch@0.2.14: Please update to minimatch 3.0.2 or higher to avoid a RegExp DoS issue
npm WARN deprecated graceful-fs@1.2.3: graceful-fs v3.0.0 and before will fail on node releases >= v7.0. Please update
e. Use 'npm ls graceful-fs' to find it in the tree.
npm notice created a lockfile as package-lock.json. You should commit this file.
```

Navigate to the terminal and npm install to create the node\_modules in the project. I get me a package-lock.json so as I don't inadvertently damage the whole damn shooting match with a npm update. Don't ask, I've done that before, and get impedance mismatches between libraries.



```
e. Use 'npm ls graceful-fs' to find it in the tree.
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN LeadinDemoChat@0.0.1 No repository field.
npm WARN LeadinDemoChat@0.0.1 No license field.
```

## Run the app

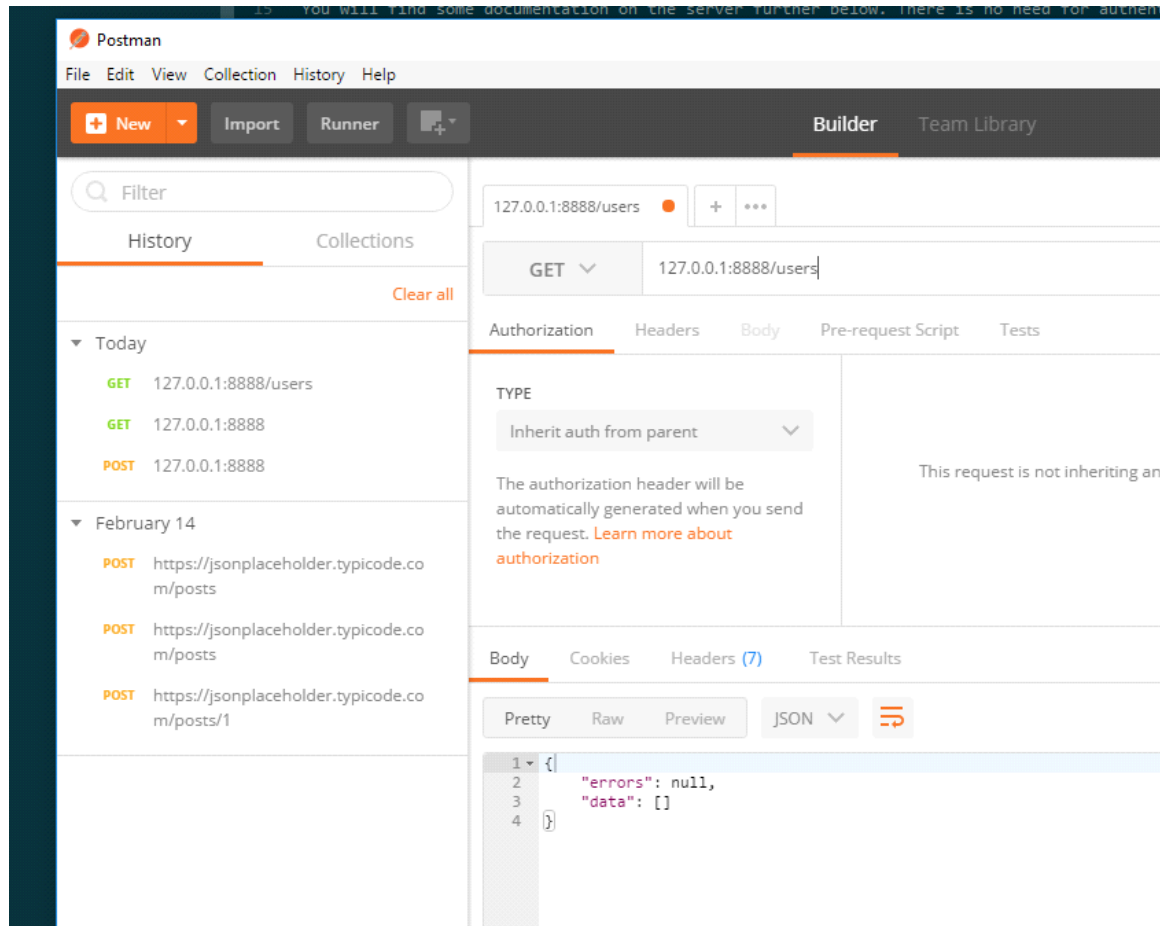
Go to the VS code power shell terminal and run the app as per instructions.

```

PS D:\Workspace\Gofore\gofore-chat-application-fc5eda235a9d\gofore-chat-application-fc5eda235a9d> Node app.js
12 Mar 19:27:57 - Server started.
12 Mar 19:27:57 - Leadin Chat Demo listening at 8888
GET / 404 3.894 ms - 139
GET /favicon.ico 404 0.434 ms - 150
POST / 404 0.377 ms - 140
GET / 404 0.339 ms - 139
GET / 404 0.197 ms - 139
GET /users 200 2.286 ms - 25

```

Next probe the URL see if it returns the RESTfull users, bingo JSON list returned, errors and data.



As expected. Looking good from the install notes.

```

The server exposes two REST API calls:

* GET /users - get list of all users and their online/offline status
* GET /history - get chat history

Both calls return JSON objects in form: {errors: null, data: returned data}

```

**Now Test the connection using FireFox**

## Browser WebSocket Client

Options

Client

Server Connection

ws://127.0.0.1:8888

Status: **OPENED**

Disconnect

Send a Message

Push off numbnuts

Invalid JSON! You entered invalid JSON in the message body.

Send

Received Messages

Outgoing messages from client are shown in red. Incoming messages from server are shown in black. Click on an incoming message to pretty-print it.

Clear Messages

Hello from Leadin chat. Set the nickname with the command /nick nickname before chatting away.  
/nick Dirk  
{ "from": "\_server", "message": "New user: Dirk joined." }  
Push off numbnuts

It works.

## Access the REST /users

127.0.0.1:8888/users

+

...

GET

127.0.0.1:8888/users

Key

Value

New key

Value

Authorization

Headers

Body

Pre-request Script

Tests

TYPE

Inherit auth from parent

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

This request is not inheriting any authorization helper parent's authoriza

Body

Cookies

Headers (7)

Test Results

Pretty

Raw

Preview

JSON

1

2

3

4

5

6

7

8

9

```

{
  "errors": null,
  "data": [
    {
      "nick": "Dirk",
      "online": true
    }
  ]
}

```

## Check the History

ar all

GET ▾127.0.0.1:8888/history

TYPE

Inherit auth from parent ▾

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

This request is not inhe

Body

Cookies

Headers (7)


Test Results

Pretty

Raw

Preview

JSON ▾



1 ▾ {

2     "errors": null,

3 ▾     "data": [

4 ▾         {

5             "timestamp": 1520885263813,

6             "from": "\_server",

7             "msg": "New user: Dirk joined."

8         },

9 ▾         {

10             "timestamp": 1520885310854,

11             "from": "Dirk",

12             "msg": "Push off numbnuts\n\n"

13         }

14     ]

15 } ▾