

# Weather Map

Assignment Number Two. Weather map is a project created by using Node.js, Express.js, Leaflet.js, HTML5, CSS3, OpenWeatherMap API, Timezone API, openCage Reverse Geocoding API.

## Description

Project was created in Visual Studio Code and includes files such as: index.html - FrontEnd part of code that is responsible for visual representation. styles.css - FrontEnd part of code that is used to decorate HTML elements. script.js - responsible for logical part of the code, executes every functional operation. app.js - where API keys are stored, information is received and server launched.

When user enters the site he sees the form with longitude, latitude and a big map on left side. After entering longitude and latitude values, user sees a block of text containing information about temperature, weather description, logo of current weather, feel-like temperature, humidity, pressure, wind speed, country code, rain volume, timezone (additional API) and location (additional API).

## Getting Started

### Dependencies

- Windows 10/11.
- Visual Studio Code Stable Build (version 1.85 or later).
- Node.js (LTS version 20.10.0 or later).

### Installing

- Links for downloading programs:
- [Visual Studio Code](#)
- [Node.js](#)

### Executing program

- You need to unarchive folder from a .zip file and open it in VS Code.
- Then click [ Terminal > New Terminal ] on the top bar.
- After opening Terminal, (assuming you already installed Node.js) enter the commands below.

```
npm install express leaflet
npm install -g nodemon
npm run dev
```

- If there are no problems, you will see the message below:

```
[nodemon] 3.0.3
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node app.js`
Server: http://localhost:3000
```

- Now, go to browser and search "localhost:3000" and here you go, fully complete Weather Map.

## Help

There might be a policy-related problem in Terminal such as this:

```
nodemon : Невозможно загрузить файл ...\npm\nodemon.ps1, так как
выполнение сценариев отключено в этой системе.
```

so you would need to write this line and rewrite the command "nodemon server.js".

```
Set-ExecutionPolicy RemoteSigned -Scope Process
```

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## Version History

- 0.1
  - Initial Release (22.01.2024)

## Acknowledgments

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- [stackoverflow.com](https://stackoverflow.com)
- [scaler.com](https://scaler.com)
- [freecodecamp.org](https://freecodecamp.org)