## WEB\_ICP5

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# **In Class Programming:**

#### **NODE JS:**

Node. js is best suited for non-blocking, event-driven servers, because of its single-threaded nature. It was created with real-time, push-based architectures in mind and is utilized for standard web sites and back-end API applications.

Node.js is a cross-platform, open-source back-end JavaScript runtime environment that uses the V8 engine to execute JavaScript code outside of a web browser.

#### **ANGULAR:**

Angular is a Typescript-based programming framework. Angular as a platform includes:

- A framework for developing scalable web applications based on components.
- A set of well-integrated libraries that cover a wide range of functions, such as routing, forms management, client-server communication, and more.
- A set of developer tools for writing, building, testing, and updating code.

It comes as a set of TypeScript libraries that you can import into your applications to implement core and optional features.

# Todo\_EventCounter

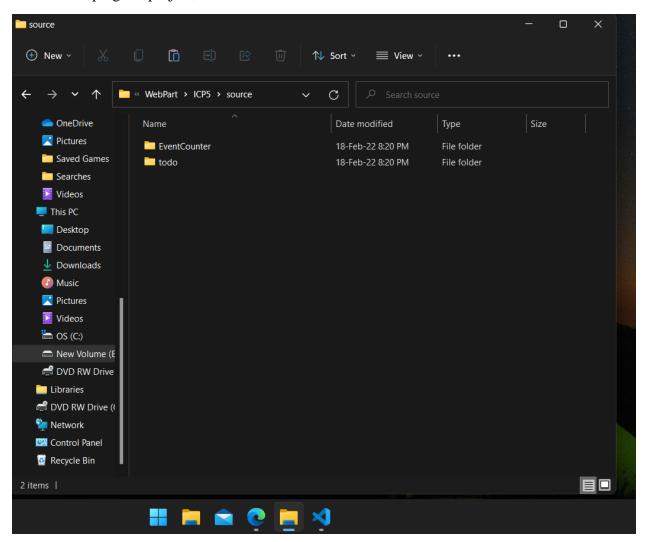
To ensure that people remember a specific task, one can develop a to-do list. It can contain any assignment or goal that needs to be met on time. The to-do list's main purpose is to remind a person of the tasks that need to be completed. It also aids in the reduction of time waste.

If you want to avoid work overload, you'll need to make to-do lists. You'll appear unfocused and unreliable to those around you if you don't use them effectively.

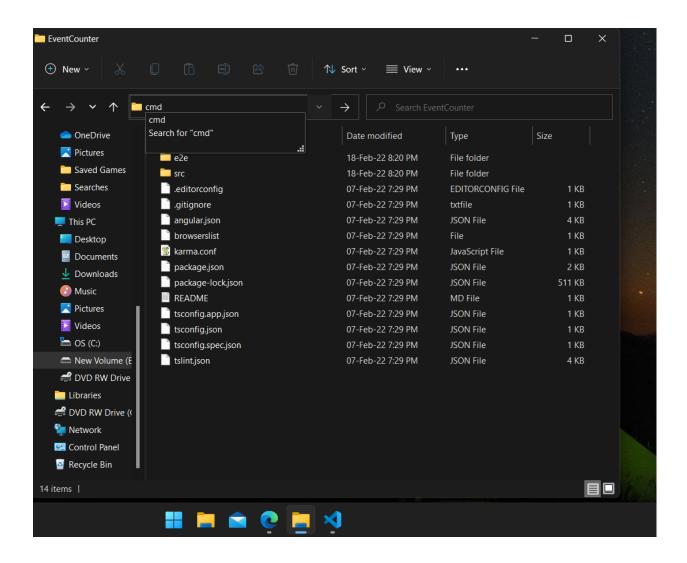
## Let's start,

➤ Both the To-do and Countdown Timer in a single application and shown below.

After developing the project,



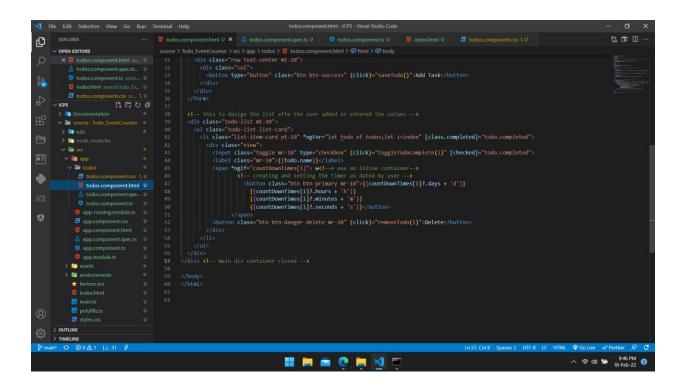
Open command prompt from the file path as shown below, for reference



## HTML code:

Below are the screenshots of html code developed to build our application.

```
| File | Idd | Selection | Vew | Go | Run | Imminist | Idd |
```



Below is the snap of angular spec,

Unit tests for your source files are contained in the spec files. For Angular apps, it is standard to have a .spec.ts file for each .ts file. When you use the ng test command, they are run using the Jasmine JavaScript test framework using the Karma test runner.

```
| Secretary | Secr
```

#### ts code:

```
## Idea | Selection | Vew Go | Run | New |
```

```
| The Late Selection View Go Am | New York |
```

#### CSS code:

Below is the css code used to design our application.

Now, install the node modules using npm command "npm node-modules --save" as shown in the snap below.

```
Microsoft Windows [Version 10.0.22000.527]

(c) Microsoft Corporation. All rights reserved.

E:\ms classes\WebDevCourse\WebPart\ICP5\source\EventCounter>npm install node-modules --save npm MART old lockfile The package-lock.json file was created with an old version of npm, npm MART old lockfile so supplemental metadata must be fetched from the registry.

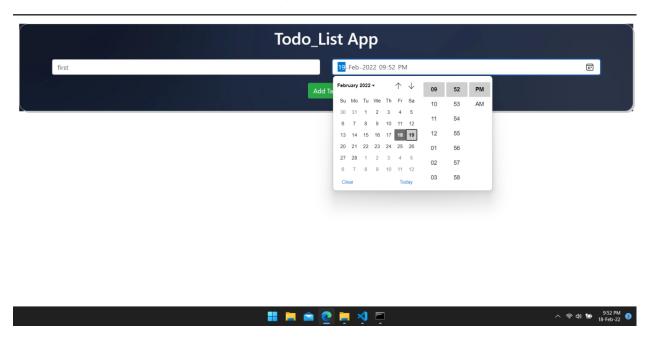
npm MARN old lockfile npm MARN old lock
```

After getting the node files into your project destination, run the application as shown in the screenshot below.

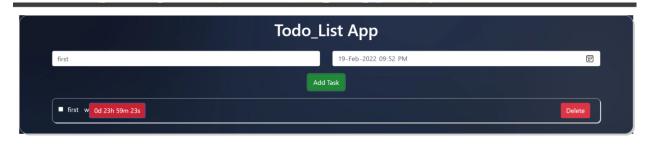
```
C:\Windows\System32\cmd.exe
                                                                                                                                        npm <mark>WARN</mark> deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certai
cir<mark>cums</mark>tances, which is known to be problematic. See https://v8.dev/blog/math-random for details.
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142 npm WARN deprecated hawk@1.0.0: This module moved to @hapi/hawk. Please make sure to switch over as this distribution
no longer supported and may contain bugs and critical security issues.
           deprecated request@2.27.0: request has been deprecated, see https://github.com/request/request/issues/3142
npm
          deprecated svgo@1.3.2: This SVGO version is no longer supported. Upgrade to v2.x.x.
           deprecated tslint@6.1.2: TSLint has been deprecated in favor of ESLint. Please see https://github.com/palantir
tslint/issues/4534 for more information.
added 1477 packages, and audited 1478 packages in 2m
51 packages are looking for funding
  run `npm fund` for details
 11 vulnerabilities (1 low, 79 moderate, 28 high, 3 critical)
To address issues that do not require attention, run:
  npm audit fix
To address all issues (including breaking changes), run:
 npm audit fix --force
Run `npm audit` for details.
E:\ms classes\WebDevCourse\WebPart\ICP5\source\EventCounter>ng serve -o
```

# **OUTPUT:**

Enter the value and set the timer as needed, below is the reference to the same.



Next, add the item to the list which is then displayed as below.





Items added can also be deleted when done or when required.

Similarly, multiple list of activities can be added and managed through the application.

