

Cannot find namespace NodeJS when using NodeJS.Timer in Ionic 2



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I am attempting to use some code I found on <https://github.com/bevacqua/dragula/issues/289#issuecomment-277143172> to my Ionic project.

When I run the code I get an error `Cannot find namespace 'NodeJS'` and the error refers to `touchTimeout: NodeJS.Timer;`

How can I adapt the code below to make the `NodeJS.Timer` line work?

```
import { Directive, ElementRef, HostListener } from '@angular/core';
```

```
@Directive({ selector: '[delayDragLift]' })
```

```
export class DelayDragLiftDirective {
```

```
  dragDelay: number = 200; // milliseconds
```

```
  draggable: boolean = false;
```

```
  touchTimeout: NodeJS.Timer;
```

```
  @HostListener('touchmove', ['$event'])
```

```
  // @HostListener('mousemove', ['$event'])
```

```
  onMove(e: Event) {
```

```
    if (!this.draggable) {
```

```
      e.stopPropagation();
```

```
      clearTimeout(this.touchTimeout);
```

```
    }
```

```
  }
```

```
  @HostListener('touchstart', ['$event'])
```

```
  // @HostListener('mousedown', ['$event'])
```

```
  onDown(e: Event) {
```

```
    this.touchTimeout = setTimeout(() => {
```

```
      this.draggable = true;
```

```
    }, this.dragDelay);
```

```
  }
```

```
  @HostListener('touchend', ['$event'])
```

```
  // @HostListener('mouseup', ['$event'])
```

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```
}  
}
```



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edited Mar 22 at 15:34



Liam

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asked Jul 25 '17 at 23:59



Chris

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2 Answers



Open `src/tsconfig.app.json` *.

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Add `"node"` to the `"types"` array.



Example:



```
{  
  "extends": "../tsconfig.json",  
  "compilerOptions": {  
    "outDir": "../out-tsc/app",  
    "baseUrl": ".",  
    "module": "es2015",  
    "types": [  
      "node"  
    ]  
  },  
  "exclude": [  
    "test.ts",  
    "**/*.spec.ts"  
  ]  
}
```

*if this file does not exist add the specified part to `tsconfig.json` in root folder

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A quick way to solve this problem is [here](#).

2



Basically change `setTimeout` and `clearInterval` to `window.setTimeout` and `window.clearInterval`, respectively. For example, your `onDown` becomes:

```
onDown(e: Event) {  
  this.touchTimeout = window.setTimeout(() => {  
    this.draggable = true;  
  }, this.dragDelay);  
}
```

Then, your declaration becomes:

```
this.touchTimeout: number | undefined;
```

answered Feb 3 at 20:22



[cham](#)

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