Typescript: 'Cannot find name' error of imported class

I have a file a.ts which contains a class A inside a module:

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```
module moduleA {

    export class A {
    }

}

export = moduleA.A;
```

And another file b.ts which imports class A:

```
import A = require('a.ts');

class B {

  // This leads to an error: Cannot find name 'A'
  private test: A = null;

  constructor() {
    // But this is possible
    var xyz = new A();
  }
}
```

Interestingly, Typescript shows an error when I want to use A as a type in B. However, instantiating A does not lead to an error.

Can anybody explain me, why this is like that? Thank you very much!

module   typescript   export

1 Answer

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The use of the namespace `module moduleA` is not necessary... you can do this...

the keyword `module` is synonymous with namespace (C#) now... best practice is to use the ES6 style module structure which is basically each file is a module and export what you need and import what you need from elsewhere.

```
// a.ts
export class A {}


// b.ts
import { A } from './a';
class B {
  private test: A = null; // will not error now
  constructor () {
    var xyz = new A();
  }
}
```

Note: this is based upon TypeScript v1.5+

answered Nov 2 '15 at 12:56

Brocco
43k   8   58   72

Thanks a lot for your answer! Though I need the module structure like this, because I have variables that must stay outside the class A but inside the module. Don't you think my solution should theoretically work like that? – gizmodus Nov 2 '15 at 13:04 ✎

@user986305 You should still be able to declare variables outside the class but in the same file if you do things Brocco's way. – JKillian Nov 2 '15 at 15:08

@JKillian is correct, those variables will be contained to the scope of that file/module without being leaked externally. – Brocco Nov 2 '15 at 18:51

Thanks JKilian and Brocco! I had it that way before with a variable "dependencies" in the various files. However, Typescript kept telling me that the variable "dependencies" was already declared with another type (in another file). Now I removed the modules as you described and it seems to work. I

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