TypeScript Modules



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Immediately Invoked Function Expression (IIFE)

TypeScript Transpiled Code (.js)

Hand-Written JavaScript (.js)

TypeScript Module

Module Overview

What? How?

TypeScript Modules

- Encapsulate variables, interfaces, and classes
- Define unique namespaces
 - System.Data
 - System.Data.Common
 - java.io
- Organize symbols and identifiers into a logical namespace hierarchy

Two Types

Internal

External

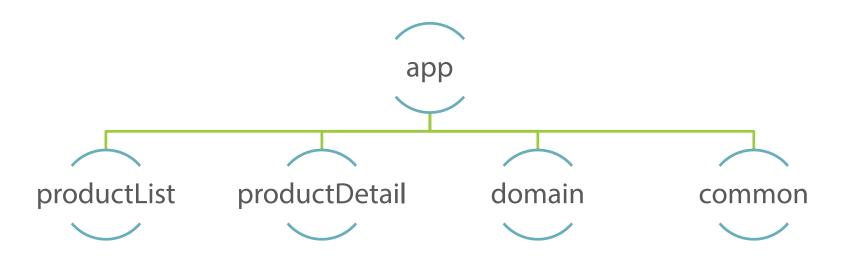
TypeScript Module Conventions

Around each code file:

Angular modules
Angular controllers

Naming conventions "app" as root namespace sub-namespaces for:

- each feature
- domain objects
- common code



TypeScript Module Conventions

- Multiple files can use the same module name
 - app.common
- One file can contain multiple modules

TypeScript Module Syntax

```
module app.productList {
```

Encapsulation

Interfaces and classes within a module are local to that module

Expose an interface or class with the export keyword

Export not required for Angular modules and controllers

```
modul e app {
    x = new app. a. A();
    y = new app. b. B();
}
```

```
module app.a {
  class A {}
}
```

```
module app. b {
  export class B {}
}
```

This Module Covered



TypeScript Modules

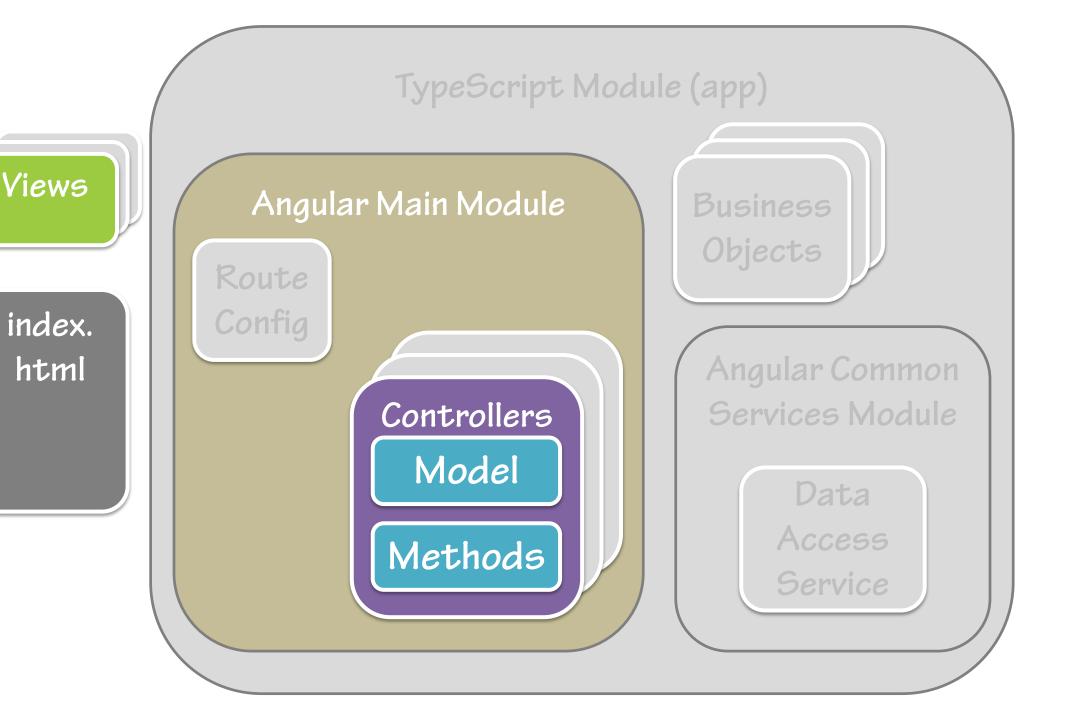
TypeScript module !== Angular module

Similar to namespaces/packages

Transpiles to IIFE

Follows the JavaScript module pattern

Encapsulates the code



Views

html

