Module Overview



Selecting a Language

Selecting an Editor

Setting up an Angular 2 Application

About Modules

JavaScript Language Specification



```
ECMAScript (ES)
```

ES3

ES 5

ES 2015 (formerly known as ES 6)

- Must be transpiled



Selecting a Language

ES 5

- Runs in the browser
- No compile required

ES 2015

 Lots of new features (classes, let, arrow, etc.)

TypeScript

- Superset of JavaScript
- Strong typing
- Great IDE tooling

Dart

No JavaScript



What IsTypeScript?



Open source language

Superset of JavaScript

Transpiles to plain JavaScript

Strongly typed

- TypeScript type definition files (*.d.ts)

Class-based object-orientation



Learning More



TypeScript Playground

http://www.typescriptlang.org/Playground/

Pluralsight Courses

"TypeScript Fundamentals"

"Angular with TypeScript"

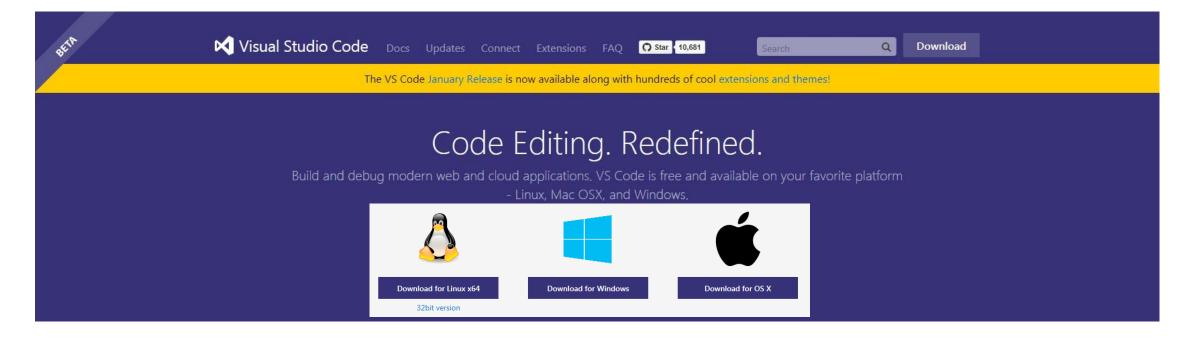
"Using ES6 with TypeScript"



TypeScript Editors



Visual Studio Code



https://code.visualstudio.com/



Learning More

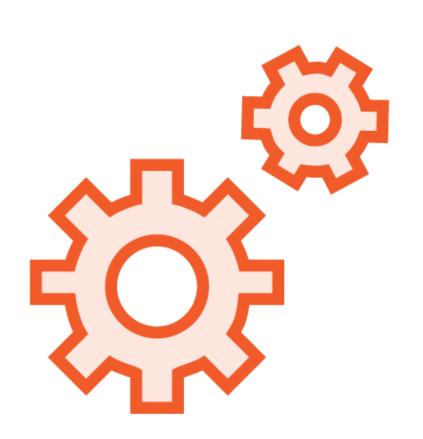


Visual Studio Code Site https://code.visualstudio.com/

Pluralsight Course
"Visual Studio Code"



Setting up Our Environment



npm

Set up the Angular 2 application



npm



Node Package Manager

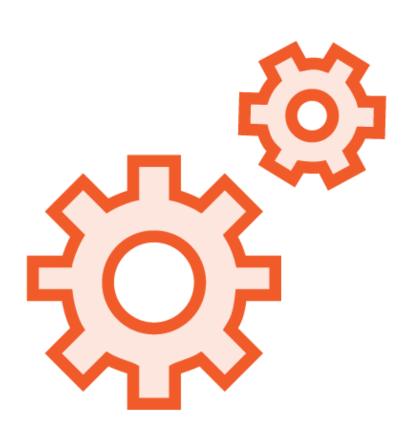
Command line utility

Installs libraries, packages, and applications

https://www.npmjs.com/



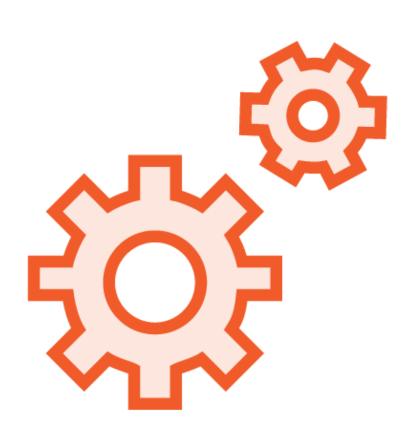
Setting up an Angular 2 Application



- 1. Create an application folder
- 2. Create the tsconfig.json file
- 3. Create the package.json file
- 4. Create the typings.json file
- 5. Install the libraries and typings
- 6. Create the host Web page (index.html)
- 7. Create the main.ts file (bootstrapper)



Setting up an Angular 2 Application



Manually perform each step www.angular.io Quick Start

Download the results of these steps www.angular.io Quick Start

AngularCli

https://github.com/angular/angular-cli

Starter files

https://github.com/DeborahK/Angular2

GettingStarted



Namespaces

Modules

Code Organization

Angular 1 Modules

TypeScript Modules

ES 2015 Modules Angular 2: ES 2015 Modules



ES 2015 Modules

Transpile

Export

product.ts

```
export class Product{
}
```

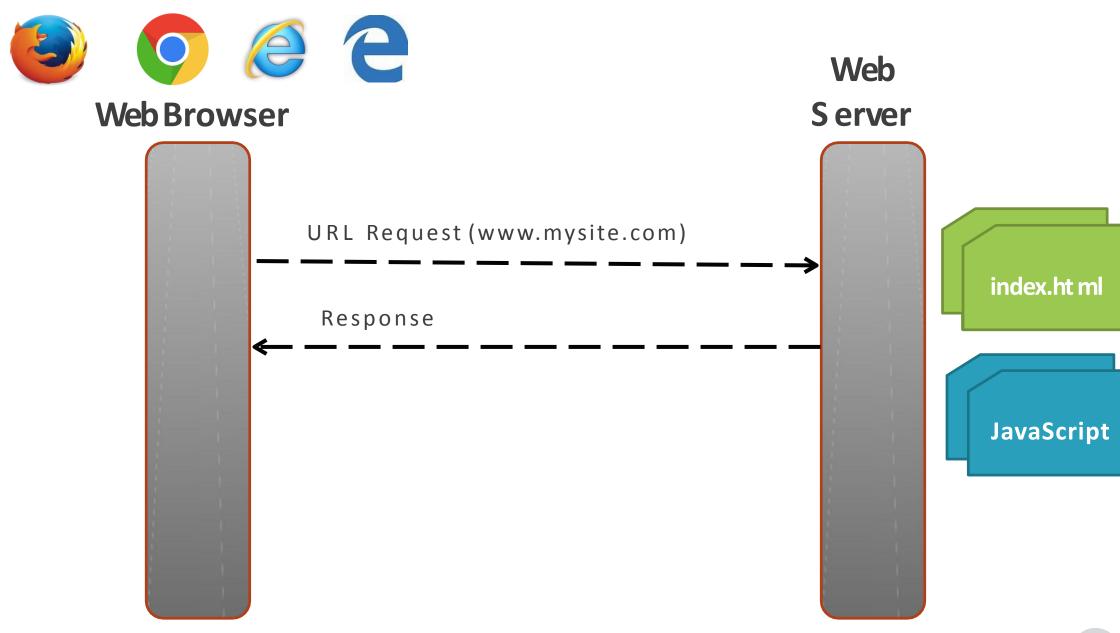
product.js

```
function Product() {
}
```

Import

product-list.ts

```
import { Product } from
'./product'
```





Summary



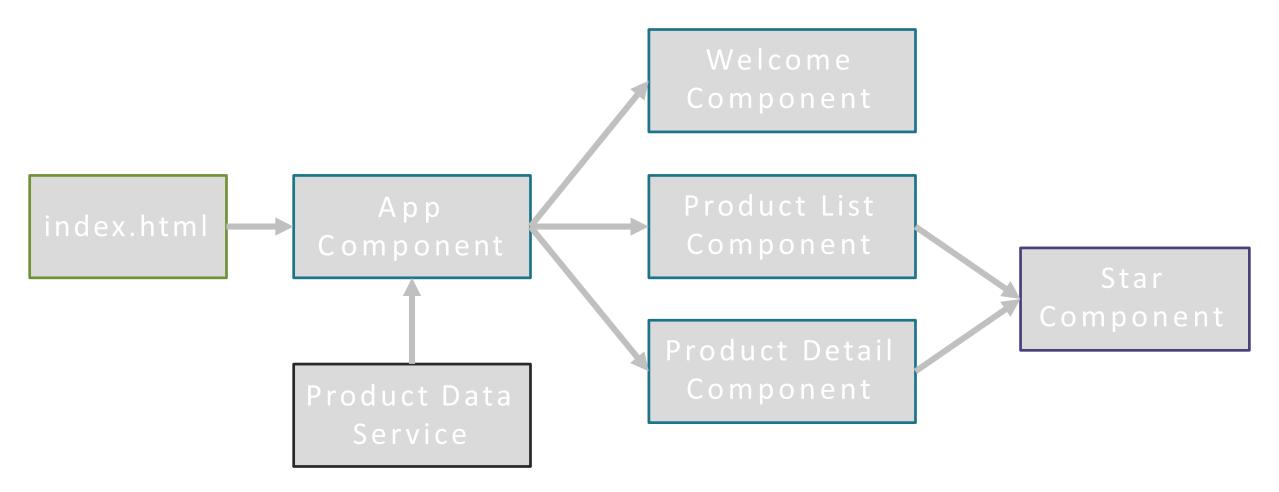
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Application Architecture





Application Architecture

