Angular CLI

Agenda

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Angular CLI

- Angular CLI makes it easy to start with any Angular project.
- Angular CLI comes with commands that help us create and start on our project very fast.
- It creates project, generate application and library code, and perform a variety of ongoing development tasks such as testing, bundling, and deployment.

A Quick start

Install the Angular CLI

npm install -g @angular/cli

Step 1

Create a workspace and initial application

ng new my-app

Step 2

Serve the application

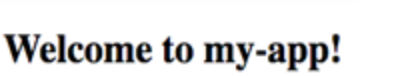
cd my-app

ng serve

Step 3

Open browser at localhost:4200

Step 4



Demo

Bootstrapping

Bootstrapping

An NgModule describes how the application parts fit together. Every application has at least one Angular module, the root module that you bootstrap to launch the application. By convention, it is usually called AppModule.

```
/* JavaScript imports */
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';
import { FormsModule } from '@angular/forms';
import { AppComponent } from './app.component';
import { ItemDirective } from './item.directive';

/* the AppModule class with the @NgModule decorator  with its
meta data*/
@NgModule({
declarations: [
AppComponent,ItemDirective
],
imports: [
BrowserModule,
FormsModule
],
providers: [],
bootstrap: [AppComponent]
})
export class AppModule { }
```

app.module.ts

NgModule

- An NgModule is a class marked by the @NgModule decorator.
- @NgModule takes a metadata object that describes how to compile a component's template and how to create an injector at runtime.
- It identifies the module's own components, directives, and pipes, making some of them public, through the exports property, so that external components can use them.
- @NgModule can also add service providers to the application dependency injectors.

More explanation

The @NgModule decorator identifies AppModule as an NgModule class. @NgModule takes a metadata object that tells Angular how to compile and launch the application.

- **declarations**—this application's lone component.
- **imports**—import BrowserModule to have browser specific services such as DOM rendering, sanitization, and location.
- **providers**—the service providers.
- **bootstrap**—the root component that Angular creates and inserts into the index.html host web page.

The default application created by the Angular CLI only has one component, AppComponent, so it is in both the declarations and the bootstrap arrays.

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