Angular 2 Kickstart

CLI, Concepts, Tools

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Oildex

A cloud service company for oil and gas

• 1 year

Formerly:

Time Warner Cable

(now Charter)

• 12 years

Experience



- Worked on streaming media (Voice over IP), 6 years
- 5 million phone customers

Experience



Worked on video and streaming video, 4 years

Projects

twctv.com

- Video streaming website
 - backbone.js
- Video streaming Set-Top Box (STB) web application

Oildex Projects

- Rewrite 10+-year-old apps
- Angular 1.5
 - Component Router
 - **■** ES5
- Angular 2 Prototype
 - Typescript
- Some ES6 in tests

We will cover

- angular-cli
- Code Walkthrough
- Tools

angular-cli

angular-cli

- Based on ember-cli
- beta

Angular 2 code generator

- Applications
- Components
- Directives
- Pipes
- Services
- Routes
- Unit Tests
- Protractor Tests

Angular 2 Tools

- Build
- Unit Tests
- Protractor Tests
- Deployment
- Lint
 - Style Guide Checker
- Type Definitions
- Code Formatter
- CSS Preprocessors

Install

npm install -g angular-cli

Help

ng --help

Generate New App

ng new PROJECT_NAME
cd PROJECT_NAME

Serve

ng serve

Code Walkthrough

Application

Bootstrapping

./src/index.html
/main.ts

Config

- ./angular-cli.json
- ./package.json
- ./tslint.json
- ./typings.json
- ./config/

index.html Base

<base href="/">

index.html Root Component

<angular2-kickstart-app>Loading...</angular2-kickstart-app>

index.html System Loader

```
System.import('system-config.js').then(function () {
   System.import('main');
}).catch(console.error.bind(console));
```

Bootstraping

/src/main.ts

```
import { bootstrap } from '@angular/platform-browser-dynamic';
import { enableProdMode } from '@angular/core';
import { Angular2KickstartAppComponent, environment } from './app/';
if (environment.production) {
  enableProdMode();
}
bootstrap(Angular2KickstartAppComponent);
```

Root Component

src/app/angular2-kickstart.component.ts

```
import { Component } from '@angular/core';

@Component({
   moduleId: module.id,
   selector: 'angular2-kickstart-app',
   templateUrl: 'angular2-kickstart.component.html',
   styleUrls: ['angular2-kickstart.component.css']
})

export class Angular2KickstartAppComponent {
   title = 'angular2-kickstart works!';
}
```

Tools

Tools

- Build
- Unit Tests
- Protractor Tests
- Lint
 - Style Guide Checker
- Type Definitions
- CSS Preprocessors
- Deployment

Build

ng build

Unit Tests

ng test

Protractor Tests

ng e2e

Lint and Style Guide Checker

ng lint

Generate Another Component

ng generate component my-new-component

Hook Up Component

- import into root component
- Put a selector in the root template
- Add to root component's directive array

Generate A Service

ng generate service my-new-service

Generate A Route

ng generate route first-route

Questions?