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NG vs SPA C-to-V: innerHTML → {{}} V-to-C: events → events Visibility: style → [hidden] URL Mapping: "hard" → Router Template Logic: "impossible" → ngFor, ngIf Modularity / MVC: "impossible" → natural Programming language: "js" → ts

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NG PROJECT

- nglrGo <project name> => ~350KB directory
- Within it: src is the seed: global css, assets, and index.html which bootstraps the root
- Within it: app is known as the root
- Within it app-wide modules (model)
- plus three files for the root component:

app.component.html (view) app.component.ts (controller) app.component.css (view)

NG COMPONENTS

- Created via ng generate component <*xyz*>
- Directory under src/app named xyz
- Within it are three files:

xyz-componet.html | .ts | .css

- The ts class name is XyzComponent
- The html selector is <app-xyz>

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DEMO PROJECT

- Start with just a root component
- Capture ts attributes in html (C-to-V)
- Capture html events in ts (V-to-C)
- Add a loop and if statements to html
- Control tag visibility from ts
- Add a component and use its selector

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NG CLI

- ng new <proj> (we use nglrGo 1000x smaller)
- ng serve -o & (can add --port --host)
- ng generate component <*xyz*>
- ng generate module <x> --flat --module=app
- ng build --prod --base-href <base>

NG ROUTER	
■ Add these lines to app.module.ts	
<pre>import { NgModule } from '@angular/core'; import { RouterModule, Routes } from '@angular/router'; const appRoutes: Routes = [{ path: '<url path="">', component: <component class=""> }, other url mapping routes }.</component></url></pre>	
Add also this import to the imports array:	
RouterModule.forRoot(appRoutes)	

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NG ROUTER

- Use Path '**' to capture runway URLs
- Use "redirect" to re-direct the request
- Use "routerlink" in anchors
- Put <router-outlet></router-outlet> in root
- See course repo for:- capturing query string parameters- programmatic navigation

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NG FORMS

- Import 'FormsModule' in app's module
- Create a form as usual
- Add (ngSubmit) event to form
- <input has [(ngModel)] for 2-way binding
- Can refer to tag id's via #

NG AJAX

- Import HttpClientModule in the app's module
- Pass web service URL
- Select GET or POST
- Pass Parameters
- Observe the response by subscribing to it

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NG BY-PRODUCTS

- J-Unit Testing with KARMA
- Accessibility thru ARIA
- SEO (Search Engine Optimization)
- Server-side Rendering—html+css on client
- APIs for animation, forms, master/slave, ...
- On-demand loading (the Router)

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COURSE REPO

FIRST

- Directory Structure & Terminology
 C2V and V2C 1-Way Bindings
- nglf and ngFor

- SECOND
 Router & Router with Parameters
- Forms and Two-Way Binding
- Ajax

THIRD

- Programmatic NavigationGlobal static attributes
- Parent/Child and Inter-Component @Input/Output