Module: Angular - web development

The objective of this training is to learn how to develop an Angular web application. In particular, you will be able to: understand the architecture of Angular, manage data and routing, build forms and deploy your application.

Prerequisites : HTML5 and CSS, Javascript programming.

	VIRTUA	6 LAR:WEBDEVELOPMENT NL CLASSROOM nts.Routing.Data Biding
Ways to take this course:		Online Instructor Led Online self-paced Video On Demand
Video conference tool : Duration :		ZOOM 21 H (3 days)

Dependency Injection

DI and Angular. Annotations and injection Hierarchical injectors Choose your injector in the components Creating and injecting services. Mock

Reactive Programming, HTTP

The HTTP Service The ReactiveX standard, RxJS Observable type, subscribe() method Available Operators Front-end reactive programming Interact with the back-end Object Mapping, Interceptors CORS Management. CRUD Features

OUTLINE

Introduction

Angular framework Highlights of Angular Angular vs. ReactJS vs. VueJS Versioning policy Contribution of the latest versions

Javascript and Typescript

Variables, Loops, Arrays, Functions Classes and modules (ES6). Instantiation Arrow functions (ES6) String Interpolation TypeScript: Types and Annotations Transpilation, type inference Interfaces, classes, visibility Decorators

Getting started with Angular

Install: npm and Nodejs install Angular, TypeScript Architecture of an Angular application Angular-CLI: main commands Angular modules and components Create an Angular project Start the server. Testing a simple code Tools: LiveReload, Chrome Debugger

The component approach

Angular components, tree Shadow Dom and templates How to declare a component Decorators, views, model Templates: interpolate, pipes, local variables Templates: Property and event bindings Input/output with components Component styling: CSS selector :host Using directives Typescript development of models Managing the onClick



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	E-TRAINING ANGULAR : WEB DEVELOPMENT VIRTUAL CLASSROOM Components . Routing . Data Biding		
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OUTLINE

Angular Routing

Routes, redirecting Browsing parameters Hierarchical Routing Guards and resolver Routing Events Navigating with Angular Create a detail component Navigation list / detail Routes and security

Angular Forms

The ngModel directive FormsModule, FormBuilder The FormGroup and FormControl types Design and validate forms Data validation, validators Dynamic validation Error handling Submission Management

Internationalization

Localization Multi-lingual app Templating Syntax Label files

Implement tests

Unit testing with Angular Karma test engine and Jasmine framework Write a component, service test Isolation of the code to be tested End to End Testing with Cypress Run the tests

Application profiling Manage different environments Assembly for deployment Configure the server Reload management How to deploy Configure NodeJs

