AngularJS 2 : Mastering Google's front-end framework
migration et développement

Hands-on course of 4 days - 28h
Ref.: AGU - Price 2025: 2 530 (excl. taxes)

EDUCATIONAL OBJECTIVES
At the end of the training, the trainee will be able to:

Master the fundamentals of the AngularJS 2 Framework

Quickly create complex Web applications

Know how to integrate unit tests into development

Learn best practices for development and entering production

Participants

Modular composition of an application with AngularJS 2

TRAINING PROGRAM

THE PROGRAMME
last updated: 05/2024

1) » JavaScript development: Refreshers
- ECMAScript 5 best practices.
- ES6/ES2015, general overview.
- New syntax: scope, "template string", "arrow functions", etc.
- Essential tools. Babel, Traceur, and Typescript.
- Typescript in detail, configuration.
- ES6 modular approach.
- "Modules Loaders": SystemJS, "import/export".
- Hands-on work ¤Migrating an ES5/ES6 script. Implementing the environment with TypeScript.

2) » Migrating from AngularJS 1.x to AngularJS 2
- Comparison and "topography" of concepts.
- Prepare for migration. Structure of an AngularJS 2 application.
- The modules AngularJS 2, "core" and common modules.
- Principle of dependency injection.
- Classification of directives: Component, Attribute, Structure.
- Decorators: Defining hierarchies.
- Hands-on work ¤Migrating an AngularJS 1.x application to AngularJS 2.

3) » Dependency injection
- Using annotations and decorators.
- Configuring the injector.
- Managing modules: Best practices.
- Creating injectable services. Classifying services.
- "BootStrapping" an application.
- Hands-on work ¤Structuring, "scaffolding" an application project.

4) » Defining components

- Life cycle in the application.
- Template syntax: Interpolation/expression, "Binding", and filters.
- Transformation directives: ngIf, ngFor, ngSwitch, etc.
- Syntactical definition, the (*) symbol. Local variables.
- Class of components. Configuration directives: Selector, provider.
- User events.
- Hands-on work ¤Creating components.

5) » Managing forms, Routing, and HTTP queries

- Control and ControlGroup.
- Validation and custom error management.
- "FormBuilder", advanced form components.
- Data link via HTTP.
- Creating routes. Settings and wildcard.
- Targeting, "router-outlet", routing events.
- Hands-on work ¤Validation form. Consuming a REST API.

6) » Unit tests. Best practice and tools

- Configuring the test environment.
- Writing tests Jasmine. Coverage.
- Test case: Pipe, component, application.
- ngUpgrade: Coexistence and ngForward.
- AngularJS2 "Coding guide Style".
- Hands-on work ¤Writing unit tests. Implementing TDD.

DATES

REMOTE CLASS
2025 : 22 juil., 07 oct.