

Course Name: AngularJS 4.X

Duration: 45hrs

COURSE DESCRIPTION:

AngularJS 4 is the second edition of the "superheroic" JavaScript framework.

Redesigned from the ground up by Google. AngularJS 4 provides advanced features for building single-page applications:

- Declarative templates
- 2. Two-way data binding
- 3. TypeScript support
- 4. Dependency injection

And instead of the controllers typical of MVC architecture, AngularJS 4 now offers components. It's a great update, suitable for mobile and web developers alike.

LEARNING OUTCOMES:

1. Architecture, setup, source files

- i. Angular Architecture overview
- ii. Setup instructions

ES5 to ES6 and TypeScript refresher

- i. Classes, Spread Operator, Arrow Functions, Immutability
- ii. Understanding import and exports

3. Getting started

- i. Project Installation
- ii. First component with @component
- iii. Root Module with @NgModule
 - iv. Bootstrapping Angular





Course Name: AngularJS 4.X

Duration: 45hrs

4. Template fundamentals

- i. Interpolation and expressions
- ii. Property binding
- iii. Event binding
- iv. Two-way databinding
- v. Template #ref variables

5. Rendering flows

- i. nglf, * syntax and <template>
- ii. ngFor and iterating collections
- iii. ngClass and className bindings
- iv. ngStyle and style bindings
- v. Pipes for data transformation
- vi. Safe navigation operator

6. Component Architecture and Feature Modules

- i. Smart and dumb components overview
- ii. One-way dataflow overview
- iii. Feature modules with @NgModule
- iv. ngOnInit lifecycle hook
- v. Presentational (dumb) components
- vi. Passing data into components with @Input
- vii. Dynamic @Input values with *ngFor
- viii. Emitting changes with @Output and EventEmitter
- ix. Immutable state changes
- x. ngOnChanges lifecycle hook

7. Services, Http and Observables

- Data Services and Dependency Injection
- ii. Understanding @Injectable
- iii. Http data fetching with Observables





Course Name: AngularJS 4.X

Duration: 45hrs

iv. Http put, delete with immutable state

v. Custom Headers and RequestOptions

vi. Http Promises alternative

vii. Observable.catch error handling

8. Template-driven Forms, Inputs and Validation

- Forms container component
- ii. Form stateless component
- iii. ngForm and ngModel
- iv. Binding to radio buttons
- v. Binding to checkboxes
- vi. <select> option rendering, and ngValue
- vii. Form validation and error states
- viii. Dynamically disabling submit
- ix. ngSubmit and stateless @Output

9. Component Routing

- i. Base href and RouterModule
- ii. Root module routes and outlet
- iii. Wildcard routes for 404 handling
- Understanding routerLink
- v. Styling active routes
- vi. Dynamic navigation with ngFor
- vii. Feature-module routes with forChild()
- viii. Child and dynamic routes
- ix. Route params, data-fetching with switchMap
- x. Imperative routing API
- xi. Hash location strategy
- xii. Applying redirects