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| **Angular 2.0 Ground Up with Angular 4** |
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| Angular 2 is a next-generation JavaScript framework for building enterprise class applications. The program builds on foundational knowledge of Angular2 and TypeScript to build complex “Single page Applications” |
| Pre-requisites and Equipment : Advanced JS, AngularJS, NodeJS, HTML5,CSS3 |
| Exposure and experience with HTML, JavaScript, JQuery. Knowledge of AngularJS 1.5.x will be helpful. |
| **Angular 2.0 Topic Outline** |
| Day I |
| 1. Angular 2 Introduction |
| * 1. Program Outline, Pre-requisite and Expectations |
| 1. Difference between Angular 1.x and Angular 2 |
| 1. ES2015 Programming |
| 1. HTML5 Web Components |
| 1. Angular 2 Insights |
| * 1. History of Angular 2 |
| * 1. Angular 2 Application Architecture |
| * 1. Components in Angular 2 |
| * 1. Angular CLI |
| * 1. Writing a simple component |
| * 1. Code walkthrough of our first component |
| 1. What is SPA? What is Angular? |
| * 1. Single Page Apps vs Conventional Web Applications |
| * 1. Where Angular Fits |
| * 1. Building a simple application with Angular 2 |
| * 1. Advantages of SPA, SPA Frameworks, Apps using SPAs |
| 1. TypeScript – The Superset of JavaScript |
| * 1. Introduction to TypeScript |
| * 1. TypeScript Foundations |
| * 1. The TypeScript Module System |
| * 1. Angular 2 with TypeScript and Modules |
| * 1. TypeScript decorators |
| 1. Building blocks of Angular 2 |
| 1. Building with Angular 2 Components |
| * 1. A Trivial Component |
| * 1. Nested Components |
| * 1. Deeper Nesting |
| * 1. Built-in Components in Angular 2 |
| * 1. Component Input and Output |
| 1. Angular 2 Binding and Events |
| * 1. Templates |
| * 1. Bindings |
| * 1. Event Bindings |
| * 1. Two-way Bindings |
| * 1. Class and Style Bindings |
| * 1. Built-in Directives |
| * 1. Component Data Binding |
| * 1. Component Events |
| * 1. Ngmodel |
| 1. Forms |
| * 1. Creating a Template Driven Form |
| * 1. Creating a Model Driven Form |
| * 1. Creating a Form with Form Builder |
| * 1. Validators |
| * 1. Custom Validators |
| DAY 2 |
| 1. Angular Pipes |
| * 1. Using Pipes |
| * 1. Creating Custom Pipes |
| 1. CSS Styling |
| * 1. Component CSS |
| * 1. CSS Scoping |
| 1. Dependency injection |
| * 1. Why Dependency Injection? |
| * 1. Injection API |
| * 1. Component Multi Providers |
| * 1. Injection Multi Providers |
| 1. HTTP, Promises and Observables |
| * 1. Promises |
| * 1. Calling an API via HTTP |
| * 1. Introduction to Observables |
| * 1. Observable Bindings, Observables from DOM event |
| * 1. Observable Operators |
| * 1. Calling an API via Observables |
| 1. Life Cycle events: component and directive life cycle |
| DAY 3 |
| 1. Routing |
| * 1. Routing Insights and Life Cycle |
| * 1. Routing Parameters, Variables, Imperative Routing |
| * 1. Nested Routing |
| * 1. Auxiliary Routes |
| * 1. The Component Lifecycle –“Resolve”? |
| 1. Attribute Directives |
| * 1. Attribute Directive Insights |
| * 1. Custom Attribute Directives |
| * 1. Custom Attribute with Binding |
| * 1. Custom Attribute – Responding to user action |
| * 1. Ng-content and Multiple ng-content |
| 1. Services |
| * 1. Creating a service |
| * 1. Http GET |
| 1. Angular with High Charts and D3.js a simple demo application. |
| 1. Overview of Angular 5 features. |

**Software Installation Requirements :**

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| Visual Studio Code Editor/Sublime Text | https://code.visualstudio.com/ |
| NodeJS | https://nodejs.org/en/ |
| TypeScript | https://www.typescriptlang.org/ |
| Angular 2/4 | https://angular.io/ |
| Augury Tools for Angular 2/4 | https://chrome.google.com/webstore/detail/augury/elgalmkoelokbchhkhacckoklkejnhcd?hl=en |
| MaterializeCSS | http://materializecss.com/ |
| Bootstrap Framework | http://getbootstrap.com/ |
| Balsamiq |  |
| Augury | https://augury.angular.io/ |
| Angular Universal | https://universal.angular.io/ |
|  |  |
| npm config set registry http://registry.npmjs.org/ |  |
| npm config set proxy http://myusername:mypassword@proxy.us.somecompany:8080 | |
| npm config set https-proxy http://myusername:mypassword@proxy.us.somecompany:8080 | |
| npm config set strict-ssl false |  |
| set HTTPS\_PROXY=http://myusername:mypassword@proxy.us.somecompany:8080 | |
| set HTTP\_PROXY=http://myusername:mypassword@proxy.us.somecompany:8080 | |
| export HTTPS\_PROXY=http://myusername:mypassword@proxy.us.somecompany:8080 | |
| export HTTP\_PROXY=http://myusername:mypassword@proxy.us.somecompany:8080 | |
| export http\_proxy=http://myusername:mypassword@proxy.us.somecompany:8080 | |
|  |  |
| npm --proxy http://myusername:mypassword@proxy.us.somecompany:8080 \ | |
| --without-ssl --insecure -g install |  |
|  |  |
| npm config set proxy http://proxy.company.com:8080 |  |
| npm config set https-proxy http://proxy.company.com:8080 |  |

**Terms and Conditions**

**1. Candidates will bring their own Laptops and install the software required**

**2. TPRI has right to cancel the program, if a minimum of 20 candidates are not available at each of offering locations (Bangalore, Hyderabad, Pune)**

**3. Payments will be made through Venue Bookee after successful completion of the registration formalities.**

**4. This form is an intent form, candidates interested should register in a subsequent email registration process sent across.**

**5. Candidates shall report to the venue at exactly 9.30 A.M till 6.00 P.M for 4 Days Outlined for the Program, which are usually two consecutive weekends.**

**6. On Cancellation a Week before the commencement of the program, Fees shall be reimbursed less bank transaction charges.**

**7. Candidates can pay through Online NET BANKING fee of USD 150/- + GST 18% towards TPRI, Bangalore**

**8. Classroom based code play sessions will be offered by Syed Awase at the venue mentioned in a subsequent email. All payments should be completed by 9 Sep 2017.**

**10. If the number of registered candidate are less than 20, we reserve the right to cancel the program and we shall reimburse the money back to the candidate through cheques.**

**11. Maximum number of candidates allowed is 30 per session. No nominations are allowed. One registration per person.**

**12. Code play sessions will provide you soft copy of slides and CODE of code plays done in 2016 at various client locations such as Symphony Teleca, Harman, ITC Infotech, EvolvUs, JCI, Opus.**

**13. These are hands on sessions. Candidates are required to install visual studio code with Emmet plugins.**

**14. No fees shall be reimbursed, if the candidates attended first two days and then discontinued after the two days program.**

**15. TPRI captures all feedback from candidates and openly shares for prospective clients for future marketing purpose.**

**16. Any grievances, please be cordial in communication, we are reasonable enough to amicably settle any challenges.**