FANDS INFONET PVT. LTD.

fands
A *Fast* AND *Steady* Approach

FANDSKILL
Behavioral Skills for Corporate

FANDS-PRO
Finishing & Technical Skills for Collegia

AngularJS 4.0

Total Duration
3 days

Audience
This workshop is intended for developers who need to start development with single-page Applications using AngularJS4.

Course Objectives
At the end of the course, participants will have knowledge of
- Developing Single Page Applications
- Developing and Debugging scripts
- Writing simple test cases for JavaScript

Pre-requisites
- Basic knowledge of Eclipse / Visual Studio
- Understanding of HTML5 and JavaScript Basics
  - In case they have not worked on the same earlier, please go through following links before class
    - http://www.w3schools.com/html/
    - http://www.w3schools.com/css/default.asp
    - http://www.w3schools.com/js/default.asp

Course Contents
Day 1
- Introduction
  - Concerns for any web application
    - Understanding Round Trip
    - Client-Server Communications
    - Full Page Rendering
    - Ajax Style of working
    - Web Services
      - REST
    - JavaScript and Browser Dependencies
    - Formats like XML, JSON
    - Understanding
      - Factory
      - Dependency Injection
      - MVC

- Recap

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- o Object Oriented Java Script

➢ Starting with Angular 4
  - o Minimal A4 Example

➢ Preparing for TypeScript
  - o Brief Intro to TypeScript
  - o The TypeScript Module System
  - o Angular 4 with TypeScript and Modules
  - o TypeScript decorators
➢ Building with A4 Components
  - o A Trivial Component
  - o Nested Components
  - o Deeper Nesting
➢ Angular 4 Binding and Events
  - o Templates
  - o Bindings
  - o Event Bindings
  - o Two-way Binding
  - o Class and Style Bindings
  - o Built-in Directives
  - o Component Data Binding
  - o Component Events
  - o Ng-model
➢ Forms
  - o Controls
  - o Control groups
  - o FormBuilder

Day 2
- ➢ Pipes
  - o Using Pipes
  - o Creating Pipes
- ➢ CSS Styling
  - o Component CSS
  - o CSS Scoping
- ➢ Dependency Injection
  - o Why Dependency Injection?
  - o Injection API
  - o Component Multi Providers
  - o Injection Multi Providers
- ➢ HTTP, Promises, and Observables
  - o Promises - still available, still useful

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- o Calling an API via HTTP
- o Introduction to Observables
- o Observable Bindings
- o Observables Operators
- o Calling an API via Observables

Day 3

- ➢ Routing
  - o Introduction and Use
  - o Nested Routing
  - o Auxiliary Routes
  - o The Component Lifecycle - "Resolve"?
- ➢ Directives
  - o Introduction and Examples
  - o ng-content ("transclusion")
  - o Multiple ng-content
  - o Tab Set Example
- ➢ Example Applications
  - o Multi Screen Example Walkthrough
  - o Firebase Examples
- ➢ Upgrading and JS Versions
  - o Using Angular 4 with ES5
  - o Upgrading from Angular 1.x
- ➢ The Multi Threaded Web
  - o web-workers
- ➢ Building and Tools
  - o JSPM
  - o WebPack

Hardware & Software Requirements
Trainer Machine
- ➢ NA

Participants Machine
- ➢ Eclipse (Kepler) Or Visual Studio
- ➢ Internet Explorer (10 or 11)
- ➢ Mozilla and Firefox (latest)
- ➢ Java Script Libraries
  - o Will download these during training
- ➢ Internet Connectivity

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