TLEAD COMPUTER EDUCATION

ANGULAR 2 & 4

Pre-requisites: HTML, CSS, JavaScript

❖ **Fundamentals of the Course**
  - Introduction to Angular 2 / Angular 4
  - Introduction to package.json and npm
  - **Basics of TypeScript:** Introduction, tsc, Data Types, Classes, Objects, Data Members, Methods, Constructors, Inheritance, Interfaces, Fat Arrow Functions, tsconfig.ts.
  - Introduction to SystemJS
  - http-server package

❖ **Basics**
  - Introduction to Angular 2 / Angular 4
  - Advantages
  - Angular 4 Architecture
  - Building Blocks of Angular 4
  - Angular 4 Built-in Packages
  - Setting up Environment
  - Package.json, tsconfig.json, systemjs.config.js
  - Need of System.js, Core.js, Rx.js, Zone.js

❖ **Components**
  - What are Components
  - Component Architecture
  - Creating Components
  - Component Annotations
  - Bootstrapping Components
  - Invoking Components
  - Template, TemplateUrl
  - Working with multiple components and sharing data
  - Component Metadata
  - Component Lifecycle

❖ **Modules**
  - Creating Modules
  - Module Architecture
  - Bootstrapping

❖ **Views**
  - Creating Views
  - Expressions
  - Data Bindings
  - Forms and Events
  - Styles and ngClass
  - $event
  - ngIf, ngFor
  - Expressions
  - Validations

❖ **Services**
  - What are Services
  - Service Architecture
  - Creating Services
  - Invoking Services
  - Injectable and Dependency Injection
  - Sharing Data using Services
  - Promise

❖ **Routing**
  - Introduction to Routing
  - Creating Routes
  - routeLink
  - Route Parameters

❖ **AJAX**
  - Introduction to AJAX
  - AJAX Architecture
  - Get
  - Post
  - Put
  - Delete

❖ **Animations**
  - Introduction to Animations
  - Trigger, state, transition

❖ **Advanced**
  - Headers
  - Jasmine and Unit Testing

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