Front-End JavaScript Frameworks: Angular Course Overview

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Expected Background

- You should have good working knowledge of:
 - HTML & CSS goes without saying
 - JavaScript
 - Good knowledge of ES 5 is necessary
 - Typescript or ES 2015+?
 - YMMV

Web Design and Development

Design

- User Interface (UI)/ User
 Experience (UX) Design
- Visual Design
- Prototyping
- Colors, Graphics and Animation

- Development, Building and Deployment
 - Web UI Frameworks: Bootstrap 4
 - JavaScript Frameworks:Angular
 - Hybrid Mobile Frameworks:
 Ionic, Cordova and
 NativeScript
 - Server-side Development:Node + Express + MongoDB

Full Stack Web Development

UI Framework
Bootstrap 4 /
Angular Material

JS Framework/library Angular/React



Presentation layer

BaaS

NodeJS Modules

NodeJS

Business Logic layer

MongoDB

Data Access layer

Course Outline

- Angular
- Angular Material
- Angular Flex-Layout
- Typescript Basics

Module 1: Angular Overview

- Full Stack Web Development: The Big Picture
- Setting up your Development Environment: Git and Node
- Introduction to Angular
- Angular Components
- Assignment 1

Module 2: Angular Services, Routing and Single Page Applications

- Data Binding
- Angular Service Basics
- Angular Routing
- Single Page Applications
- Assignment 2

Module 3: Angular Forms, Angular and Reactive JavaScript

- Angular Template-driven Forms
- Angular Reactive Forms
- Angular and Promise
- Angular and RxJS
- Assignment 3

Module 4: Client-Server Communication

- Client-Server Communication
- Angular and HTTP
- Angular and REST
- Animation and Directives
- Testing Angular Applications
- Building and Deployment
- Assignment 4