

## Angular 6 Online Training - Course Handout

### Table of Contents:

<b>Angular 6 Online Training - Course Handout</b>	1
Course Description	2
Who can take this course	2
Requirements	3
What You Will Learn	3
About the Instructor	<b>Error! Bookmark not defined.</b>
Course Content	4

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## Course Description

**This course starts from scratch, you neither need to know Angular 1 nor Angular 2!**

From **Setup to Deployment**, this course covers it all! You'll learn all about **Components, Directives, Services, Forms, Http Access, Authentication, Optimizing an Angular App with Modules and Offline Compilation** and **much more** - and in the end: You'll learn how to **deploy an application!**

**But that's not all!** This course will also show you how to use the **Angular CLI** and feature a **complete project**, which allows you to practice the things learned throughout the course!

And if you do get stuck, you **benefit from an extremely fast and friendly support** - both via direct messaging or discussion.

Angular is one of the most modern, performance-efficient and powerful frontend frameworks you can learn as of today. It allows you to build great web apps which offer awesome user experiences! **Learn all the fundamentals you need to know to get started developing Angular applications right away.**

## Who can take this course

Newcomer as well as experienced frontend developers interested in learning a modern JavaScript framework

This course is for everyone interested in learning a state-of-the-art frontend JavaScript framework

Taking this course will enable you to be amongst the first to gain a very solid understanding of Angular

## Requirements

NO Angular 1 or Angular 2 knowledge is required!  
Basic HTML and CSS knowledge helps, but isn't a must-have  
Prior TypeScript knowledge also helps but isn't necessary to benefit from this course  
Basic JavaScript knowledge is required

## What You Will Learn

Create full-stack web applications using Angular and RESTful APIs  
Master Angular fundamentals, CLI tools, unit testing, GitHub  
Design and architect responsive, secure and scalable apps  
Explore tools and techniques to push your web app to the next level  
Master Angular app design and architectural considerations

## Course Content

<b>Contact Session 1 - 1 Hr</b>	
<b>Course Introduction - 30 min</b>	
What is Angular	5 min
What is Typescript	5 min
Angular CLI Deep Dive	5 min
Project Setup and First App	10 min
Git and GitHub Desktop	5 min
<b>Full Stack Angular Architecture - 20 min</b>	
Architecture Overview	10 min
File Structure	10 min
Contact Session 1 - Question and answer	5 min
Contact Session 1 - Assignment	2 min
<b>Contact Session 2 - 1 Hr</b>	
<b>Crafting UI elements using Angular Interfaces - 55 min</b>	
Angular Components and using custom components - 15 min	15 min
Data Binding and Two way Data Binding	5 min
Event Binding	5 min
Angular Life Cycle Events	10 min
Property Binding	5 min
String Interpolation	5 min
Angular Directives	10 min

Contact Session 2 - Question and answer	3 min
Contact Session 2 - Assignment	2 min
<b>Contact Session 3 - 1 Hr</b>	
<b>Components and Databinding Deep Dive - 55 min</b>	
Splitting Apps into Components - 10 min	10 min
Binding custom properties - 10 min	10 min
Binding custom events - 10 min	10 min
View encapsulation and ViewChild - 10 min	10 min
Directives Deep Dive - 15 min	15 min
- ngFor, ngIf, ngClass, ngStyle, ngSwitch	
- Hostlistener and listen to host events	
Contact Session 3 - Question and Answer	3 min
Contact Session 3 - Assignment	2 min
<b>Contact Session 4 - 1 Hr</b>	
<b>Using Angular Services and HTTPClient - 55 min</b>	
What are Services and why do we need it?	5 min
Dependency Injection	10 min
Injecting services into services	10 min
Using Services for cross component Communication	5 min
Implementing HTTP GET operation with HTTPClient	10 min
Retrieving service data from component	5 min

Adding query parameters	5 min
Response Interceptor	5 min
Contact Session 4 - Question and Answer	3 min
Contact Session 4 - Assignment	2 min
<b>Contact Session 5 - 1 Hr</b>	
<b>Angular Routing and Error Handling - 55 min</b>	
Navigation with router links	10 min
Navigating Programmatically and Relative paths	10 min
Passing parameters to Route	5 min
Introduction to Guards and canActivate	5 min
Debugging Angular App and Error Handling UX	5 min
Handling Error and using catchError operator	5 min
Observable and Promises	15 min
Contact Session 5 - Question and Answer	3 min
Contact Session 5 - Assignment	2 min
<b>Contact Session 6 - 1 Hr</b>	
<b>Preparing Angular App for Production Release - 25 min</b>	
Environment Variables and Deployment preparation	10 min
Unit Tests and execution	5 min
Karma, Jasmine and Unit testing errors	10 min

<b>Booming Angular Applications - 30 mins</b>	
PWA Technologies with Service workers	10 min
Mobile App Technologies	5 min
Front end solutions in web	5 min
Building a Chat window in angular for ChatBot	10 min
<b>Bonus Session</b>	
We are happy to offer the bonus 1 hr session for free. You can choose any topic from below for maximum 60 mins	

Angular Animations	30 min
PWA - Offline Capabilities with Service Workers Deep Dive	30 min
Enhancing Angular App with Angular Material	30 min
Reactive Forms and component interaction	30 min
Design Authentication and Authorization with Angular	30 min