**Lesson35 the Differences between Angular 2, Angular 4, Angular JS**

**Notes:-**

**1-So far Google has released 3 versions of Angular and you can see the timelines below.**

|  |  |  |
| --- | --- | --- |
| **Version** |  | **Year** |
| Angular JS |  | 2010 |
| Angular 2 |  | 2016 |
| Angular 4 |  | 2017 |

**What is the difference between Angular JS and Angular 2?**

**1-Angular JS is released in 2010**

**2-Angular 2 is the released in 2016, but it’s not upgrade from Angular JS**

**3-Angular JS is controller based to glue a controller and a view in Angular JS we use $scope**

**4- Angular 2 is entirely component based**

**(Which means that we make independent components and put them together to create an Angular 2 application.)**

**🡺 This will make Code reuse**

**🡺 This is the Angular 2 faster 5 times than the Angular JS**

**🡺Angular 2 is suitable for the mobile and desktop applications**

**Whereas the Angular JS is suitable only for desktop applications**

**5-Angular 2 we have more language choices. In addition to native JavaScript we can use Typescript, Dart, Pure Script, Elm, etc. Among all these languages, Typescript is the most popular language for developing Angular 2 applications as it provides the following benefits.  
1. Intellisense   
2. Auto completion  
3. Code navigation  
4. Advanced refactoring  
5. Strong Typing  
6. Supports ES 2015 (also called ES 6) features like classes, interfaces and inheritance.**

**What has changed and what is new in Angular 4**

**Notes:-**

**1-Migrating to Angular 4 may reduce the production bundles by hundreds of kilobytes.**

**2-TypeScript 2.1 and 2.2 compatibility. Angular is updated with a more recent version of Typescript, for better type checking throughout our application. Up until Angular 4, only Typescript 1.8 was supported. With Angular 4, we can use typescript 2.1 or 2.2 which means we can use all the new features of Typescript with Angular 4.**

**Some naming guidelines are also provided by the Angular team**

1-Use "Angular JS" to describe versions 1.x or earlier

2-Use "Angular" for versions 2.0.0 and later.

3-Use the version numbers "Angular 4.0", "Angular 2.4" when you need to talk about a specific release. Otherwise it is just enough if you use the word Angular. For example, you are an Angular developer and not Angular 2.0 developer or Angular 4.0 developer.

4-Angular 4 is simply, the next version of Angular 2. The underlying concepts are still the same and if you have already learnt Angular 2 then you’re well prepared to switch to Angular 4.

**Do I have to learn Angular JS 1 before learning Angular 2**  
No. You can think of Angular JS 1 and Angular 2 as 2 different frameworks. The concepts, the API's and patterns that we use to build applications are very different between these 2 versions. So there is no need to learn Angular JS 1 before you learn Angular 2. 

**Do I have to learn Angular 2 before learning Angular 4**  
from a developer standpoint, building an application using Angular 2 and Angular 4 is not very different. We still use the same concepts, APIs and patterns. Angular 4 is simply, the next version of Angular 2 and contains a few changes and enhancements as discussed above. So you really have 2 options here. Learn Angular 2 first and then the changes and enhancements introduced in Angular 4, OR learn all the angular concepts using version 4. Either ways you are an Angular developer.