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Wouldn't you like to be able to make a really good Excel spreadsheet?Now your secret spreadsheet dreams can come true with this detailed yet non-scary Excel tutorial from the University of South Dakota. All the basics plus a bit more are covered here - data, copying, dealing with formulas - and then, when you're all done, you can take a fun little quiz to test your hard-earned knowledge. Yeah, yeah, spreadsheets really aren't that sexy, but knowing how to make them is still a very useful skill. Excel Tutorial [University of South Dakota] This Angular 7 tutorial will provide you with the basic and advanced concepts of Angular 7. Our Angular 7 tutorial has been designed for both the fresher and professionals as well. Angular 7 is an open-source JavaScript framework to build web applications as well as apps in HTML, JavaScript, and Typescript which is a superset of JavaScript. It is a JavaScript Framework that makes you able to create reactive Single Page Applications (SPAs). Angular can provide the built-in features in the case for animation, materials, and HTTP services that will ultimately give the features like auto-complete, toolbar, navigation, menus, etc. It is a leading front-end development framework that is regularly updated by the Angular team of Google. The code is written in TypeScript which has been complied with JavaScript and displays the same in the browser. Why Learn Angular 7?Angular 7 is one of the most important for students as well as working professionals who want to become great Software Engineers mainly when they are working in a Software development domain. Some of the key advantages of learning Angular 7 are given below:Angular development will best be suitable for the application development and the person can hold any of the following roles after learning Angular from a well-known institute: Angular is one of the most popular and most stable JavaScript-based platforms nowadays. Different Applications of Angular 7:Angular 7 is one of the most popularly known and widely used languages over the web. A few of them are given below:POJO-based development: Angular heavily used Plain Old JavaScript Object and it helps in learning Angular more efficiently. Google Supported Community: Google actively supports Angular and its development process. Angular is used in different Google Apps. TypeScript: Typescript is the superset of JavaScript and it is easy to debug. It is highly secured and object-oriented. Multi-platform support: Angular code works goo on all the platforms without much more change in the code. Declarative User Interface: Angular mainly uses HTML as View Language and extends its functionality. It will help in handling UI vs Code differentiation a UI is loosely coupled with code. Modular Structure: Angular development is highly modular, highly maintainable, and component-based. Prerequisites of Angular 7 Tutorials: Angular 7 tutorials are mainly designed for software programmers who want to learn the basics of Angular 7 and its programming concepts easily and simply. But before going to proceed to gain knowledge in Angular 7, you must have an understanding of CSS, HTML, typescript, JavaScript, and DOM (Document Object Model).Angular Overview:The early version of Angular was named Angular 2. And then the later version was renamed to just Angular to get rid of the confusion between AngularJS and Angular itself. The Angular team releases the new versions of the Angular framework regularly for nearly 6 months and that is twice a year. The last stable version that is available in Angular is 13.1.1.Angular 7 was first released in October 2018 by Google. The other versions of Angular which were released before releasing Angular 7 are:Angular JSAngular 2.0Angular 4.0Angular 5.0Angular 6.0Angular 7.0Google is planning to release all the major Angular versions every 6 months after. Angular 7 Update:Angular 7 was a major release in 2018 wherein the Angular Core Framework: Angular Materials and Angular CLI are updated. So, if you are using Angular 5 or 6 and want to update to Angular 7, then by using the below command, your app will be updated to the recent version – ng update @angular/cli @angular/core Application Performance: In Angular 7, there is a bundle budget in Angular.json. Budgets are one of the features which have been added to Angular CLI that allows you to set the limit inside your configuration to make sure your application size is within the limit. You can also set the size so that if the limit is crossed, the app can be warned. Angular CLI: While using the project setup with the help of the CLI, it will move you towards the built-in features available including style sheet and routing support.Angular Material and CDK:The Angular Material and CDK are updated in Angular 7. Also, 2 more other features have been added to CDK – virtual scrolling and drag and drop. Virtual Scrolling: This feature mainly shows up the visible dom elements to the user and as the user scrolls, the next list will be displayed. It will ultimately give out a faster experience as the full list is not loaded one at a time and is only loaded as per the visibility on the screen. Drag and drop: You can easily drag and drop elements from a list and be able to place them wherever it is required within the list. The new feature is very fast and smooth. What Environment Setup is required to install Angular 7?The following are required to install Angular 7:NodejsAngular CLINpmIdE for writing your code Nodejs: To check, whether the nodejs has been installed on the system or not, type node -v in the terminal. It will ultimately help you to see the version of nodejs currently installed on the system. Nodejs have to be greater than 8.x or 10.x and npm have to be greater than 5.6 or 6.4.No, once nodejs is installed, npm will also get installed along with it. To check whether npm has been automatically installed or not, type npm -V in the terminal and it will display the version of the npm.C:\>npm-v 6.4.1The installation of angular 7 is very easy and simple with the help of the Angular CLI. Type npm install -g @angular/cli in your command prompt to install angular CLI on your system. It would take some time to install and once it is completed, you can check the version by using the below command:ng versionAngular 7 Components:The major portion of the development with Angular 7 is done in the components. Components are main classes that can interact with the .html file of the component to get displayed on the browser. The file structure has the app component and it consists of the following files –app.component.cssapp.component.htmlapp.component.spec.tsapp.module.tsapp.component.tsIf you have selected Angular Routing during the project setup, files that are related to routing will also get added and the files are as follows –app-routing.module.tsThe above-mentioned files have been created by default while we created a new project by using the angular-CLI command. Angular-CLI has a command to create your component. However, the app component is created by default and will always remain the parent whereas the next components created will form the child components. Angular Module:Angular Module refers to a place where you can group the components, pipes, directives, and services that are related to the application. Now, if you are developing a website, the header, footer, center, left and the right section becomes part of a module. So, to define the module, we can use the NgModule. While creating a new project by using the Angular -CLI command, the ngmodule is being created in the app.module.ts by default. The ngmodule needs to be imported like the below:Import { NgModule } from '@angular/core';The structure of the NgModule must be like this – @NgModule ( { declarations: [AppComponent, NewCmpComponent], imports : [ BrowserModule, AppRoutingModule], providers: [], bootstrap: [AppComponent]} ) So, it mainly starts with the @NgModule and contains an object which has declarations, providers, imports, and bootstrap. Import: It is mainly an array of modules that are needed to be used in the application. It can also be used by the component in the declaration array as well. In the @NgModule, we can see the BrowserModule has been imported. Now, if your application needs forms, you can include the module with the below-mentioned code – Import { FormsModule } from '@angular/forms';The import in the NgModule will be –imports : [BrowserModule, FormsModule] Declaration: It is an array of components created. No, if any components are created, they will be first imported and the reference will then be included in the declarations like below – declarations: [ AppComponent, NewCmpComponent]Bootstrap: It includes the main app component for starting the execution. Providers: It includes the services which we created. Angular Data Binding:Data Binding is available with Angular from its Angular JS version and after that in all the versions of Angular released, later on, Data Binding is available with them. The use of curly braces in data binding – {{}}; is a process which is known as interpolation. The variable in the app.component.html file is referred to as {{title}} and the value of the title is initialized in the app.component.ts file and the app.component.html, this value can be displayed. Event Binding:When a user interacts with an application in Angular 7in the form of a keyboard movement, a mouse click, or a mouseover, it will then generates an event. Such events need to be handled to perform some type of action. This is the time when event binding comes into the picture. Angular 7 Templates:Angular 7 uses as the tag instead of using the simple tag which was being used in Angular 2. However, has been used since the release of Angular 4, and the earlier version of Angular 2 uses for the same purpose. The reason behind starting use of rather than using from Angular 4 onwards is because of the name conflict between the tag and the HTML standard tag. It will deprecate completely going ahead. So, let's see a simple coding where the template has been used along with the "if-else condition" and see what output we can get. Welcome to the official {{title}}. Months : {{i}} Condition is valid. Condition is invalid from templatePress MeNow, in the above code, you can see that for the Span tag, if the statement has been added with the else condition and called the template condition 1 else condition 2. The templates can be called as follows:Condition is valid from template Condition is invalid from templateSo, if the condition is true, then the template of condition 1 is called or else condition 2 will be called.Directives: Angular Directives is a js class that can be declared as @directive. We have mainly 3 directives in Angular7 which are – Component Directives: It mainly forms the main class with the details of how the component can be processed, used, and instantiated at runtime. Attribute directives: It mainly deals with changing the look and behavior of the dom element. You can able to create your directives.Structural directives: A structure directive mainly deals with manipulating the dom elements. Structural directives have a \* sign before the directive. For example \*ngFor and \*ngIf.Angular 7 CLI bundling budgetWith the release of Angular 7, Angular CLI added one new update which is "Bundling Budget" using the file angular.json.The bundling budget is a feature added with Angular CLI which allows us to set bundling size limits inside our application configuration to make sure that our application size is within the defined limit set. We can set the size so that the application can be warned when the limit is crossed and it can be either upper limit or lower limit.Below is the example, where inside the angular.json file, one can specify the budget options with the min and max size limit."budgets": [{ "type": "bundle", "name": "main", "maximumWarning": "150kb", "maximumError": "300kb"}]Angular 7 Pipes:Pipes are previously called filters in Angular 1.x but from the Angular 2 version onwards, it has been called "pipes" and to work with the pipe, we need to use the | (pipe) symbol as described below.The | (pipe) character or symbol in Angular 7 is used to transfer the data in a certain form of a defined type and below is the example using the pipe called "lowercase". {{ Welcome to Angular 7 | lowercase }} It takes arrays, integers, dates, and strings as input separated with the " | " to be converted into the format that is needed and display the same. Some of the built-in pipes which us available in Angular 7 are – UppercasepipeLowercasepipeCurrencypipePercentpipeAtpipeSlicepipeJsonpipeDecimalpipeAbove are the pipes provided in-built with the Angular framework, but apart from that, sometimes we may have to create some logic and for that, the custom pipe would be helpful in such cases so that we can create the custom pipe in angular as well.Below is a simple example of a custom pipe in Angular.Import { Pipe, PipeTransform } from '@angular/core'; @Pipe ( { name: 'Multiplication' }) export class MultiplicationPipe implements PipeTransform { transform(value: number, multiplyByNumber: string): number { let multipliedValue = parseFloat(multiplyByNumber); return multipliedValue \* value } } There are so many other necessary parts of Angular 7 including Routing, HTTP Client, CLI Prompts, Forms, Materials/CDK Virtual Scrolling, Animations, Materials/CDK Drag & Drop, and many more. All we can understand is that the market demand for Angular 7 including other latest versions of Angular is so high and maximum well-known companies are now involved in this part of development. Making a career in this field would help you to get high package job. Dot Net Tricks Angular course aligned with the real-time scenario that is delivered by Industry's best Technical consultant, Google GDE, and Microsoft MVP globally.SummaryAngular is one of the most popular Typescript-based & open-source frameworks for building the client-side web applications or we can say the single-page applications (SPAs) seamlessly. As we know that the Typescript is a superset of JavaScript, the JavaScript runs on the client-side of the web that works with the DOM elements, which can be used to design or the program how any of the web pages will behave when the user is interacting with the DOM elements or the components. Learning Angular will surely help to enhance your skill set while having better career opportunities in the coming decades.In this article, we have learned about all the major aspects as introductory information, I would like to know the feedback and hope this article will help to all to put some value in you while learning Angular. Take our free skill tests to evaluate your skill! In less than 5 minutes, with our skill test, you can identify your knowledge gaps and strengths.

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