**Angular Js Complete**

What is angular?

Angular is JavaScript framework which allow to create reactive SPAs.

Angular CLI ->

Angular command line Interface

Convert and optimize code for bowser to understand.

Node JS ->

It is a server-side language used for bundling and optimizing our project.

NPM -> Node package manager, used for resolving project dependency and angular dependencies itself.

Questions

What is App Component or component in angular?

What is decorator in angular?

Deployment process of angular project artifact?

What are modules in angular?

What is data binding?

Data Binding ->

* String Interpolation ( {{data}} )
* Property binding ( [property] = ‘data’ )
* Event Binding ( (event) = “expression”)
* Combination Of both:- Two way binding ( [(ngModel)] = “data” )

String Interpolation:- Any expression/method which returns string, can be use as string interpolation. Can not write multiline expression or block expression so can not write If or for or control structure in here but could use ternary expression though.

Like {{ ‘server’ }} -> this expression return ‘server’ string

Property Binding :-

Property binding is use where we need to bind HTML elements property with data.

Add more ??

Where to use property binding and string interpolation ?

So basically, we can use string interpolation as property binding like this.

<p>{{ data }}</p>

<p [innerText]=”data”></p>

But generally if we want to show or print any data on template on element use string interpolation and when we want to add/change some property of element or template’s elements or directive’s attribute or property from angular we will use property binding.

<p [innerText]=” {{data}}”></p> 🡪 wrong, cannot use curly braces.

<p [innerText]=” expression”></p> 🡪 Correct

Event Binding 🡪

Event Binding works as below.

<button (click)=”myfunction()”></button>

Important: For Two-Way-Binding to work, you need to enable the ngModel  directive. This is done by adding the FormsModule  to the imports[]  array in the AppModule.

**Directives**

Directives are instructions in the DOM.

Check this link for component and directive

<https://blog.angular-university.io/angular-components-and-directives-for-beginners/>

**What are decorators and annotations?**

When angular team announced its ECMAScript language extension AtScript, which adds type and annotation to the language in order to enable better tooling, debugging and overall development experience. After the team announced that AtScript become TypeScript, which support annotations and another feature called ‘decorators.

**Annotations 🡪** Typescript have many features like **Type Annotation**, **Field Annotation** and **MetaData Annotations**. Here we work on MetaData Annotation.

So, annotations are a declarative war to add metadata to the code. Like @Componenet is an annotation that tells angular, that the class which the annotation is attached to, is a component.

@Component annotation comes with angular framework itself(angular/core package). Annotations are not available in browsers of today, which means we need to transpile it to something that does run in current browsers. Transpiler like Babel, Traceur, TypeScript etc. Angular expects the metadata on annotations and parameters properties of classes.