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# Top 20 Angular Interview Questions and Answers



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**Angular** is a JavaScript-based framework developed by Google. **Angular** allows developers to build applications for browsers, mobile, and desktop using web technologies like HTML, CSS, and JavaScript. This article contains the **top 20 Angular interview questions and answers**, in order to prepare you for the interview.

## Q1. What is Angular?

Angular (<https://www.dotnettricks.com/learn/angular>) is a JavaScript (<https://www.dotnettricks.com/learn/javascript>)-based framework developed by Google. Angular allows developers to build applications for browsers, mobile, and desktop using web technologies like HTML (<https://en.wikipedia.org/wiki/HTML>), CSS, and JavaScript. (<https://www.dotnettricks.com/learn/javascript/introduction>)

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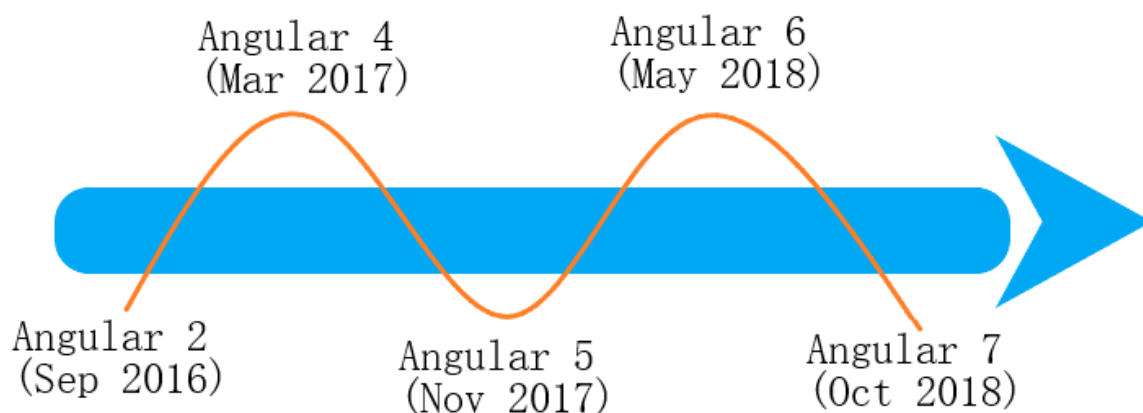
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Angular2+ is different from Angular1.x and it is completely re-written from scratch using Typescript. At the time of writing this, book the latest version of Angular was 7 which was released on 19 Oct 2018.

## Q2. Explain the evolution history of Angular?

The evolutionary history of Angular (<https://youtu.be/u7-cNIqQsRk>) is given below –



## Q3. What are the differences between Angular2+ and Angular 1.x?

There are the following differences between Angular2+ and Angular 1.x are given below:

Angular 2+	Angular 1.x
Find Courses, Jobs, Articles & More Based on	Based on controller and scope



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Mobile First	Not built with mobile first
Supports ES5/6, TS or Dart	Supports ES5/6 or Dart
Supports Angular CLI	Doesn't have CLI
The class is the only way to define services in Angular2	factory, service, provider, value and constant are used for services
Runs on client-side & server-side	Run on only client-side
bootstrapModule() function is used to initialize	ng-app and angular.bootstrap() function are used to initialize
Supports Pipe	Support filters
Supports camelCase and PascalCase syntaxes like ngModel, ngForm and NgForm	Supports spinal-case and camelCase syntaxes like ng-model, ng-class and ngModel
Use Html DOM elements properties and events	Uses its own directives like ng-click, ng-show and ng-src etc.
Use () for events and [] for attributes	Doesn't support () and [] based syntax

#### Q4. Why uses Angular?

There are multiple reasons to use **Angular** over other front-end frameworks (<https://www.dotnettricks.com/learn/entityframework/introduction-to-entity-framework>) which are listed below.

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Angular is a full-featured Single Page Application (SPA) framework  
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- The product of Google and completely open-source

- Follows MVC (Model View Controller) architecture
- Simple Dependency Injection implementation
- It supports Typescript and ES6 standard
- Able to create a re-usable component, modules, routes
- Supports to enable testing using jasmine and karma
- Great community support

## Q5. Important fundamentals of Angular

Angular has large numbers of feature which makes it more useful over other front-end frameworks, below is the list of important features.

- Component
- Module
- Data bindings
- Services
- Dependency Injection
- Directives
- Templates
- Application Bootstrapping
- Navigation
- Native mobile development

## Q6. What are the new features of Angular 7?

Recently Angular has released its newer version Angular 7, and with this version, we got several updated as well as the new features and these are listed below.

- CLI Prompt
- Angular Elements

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■ Typescript 3.1 supports

## Q7. How to update your app to Angular 7?

If you want to work on the latest version of the Angular then we need to update our Angular CLI as well as Core angular packages by using below command.

```
ng update @angular/core @angular/cli
```

## Q8. What is an Angular CLI?

Angular Command Line Interface is a command line tool which is used to create, initialize, scaffold and to manage the whole angular application. We can also use Angular Console tool to work with the command line to generate or work with different part of the Angular application, using CLI we can manage everything using commands.





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## Command Line Interface

You can find the complete details of Angular CLI and different commands into the CLI introduction part later on this series.

### Q9. What are the features of Angular CLI?

Angular CLI is a powerful command-line tool by which we can create new files, update the file, build and deploy the angular application and other features are available so that we can get started with Angular development within few minutes.

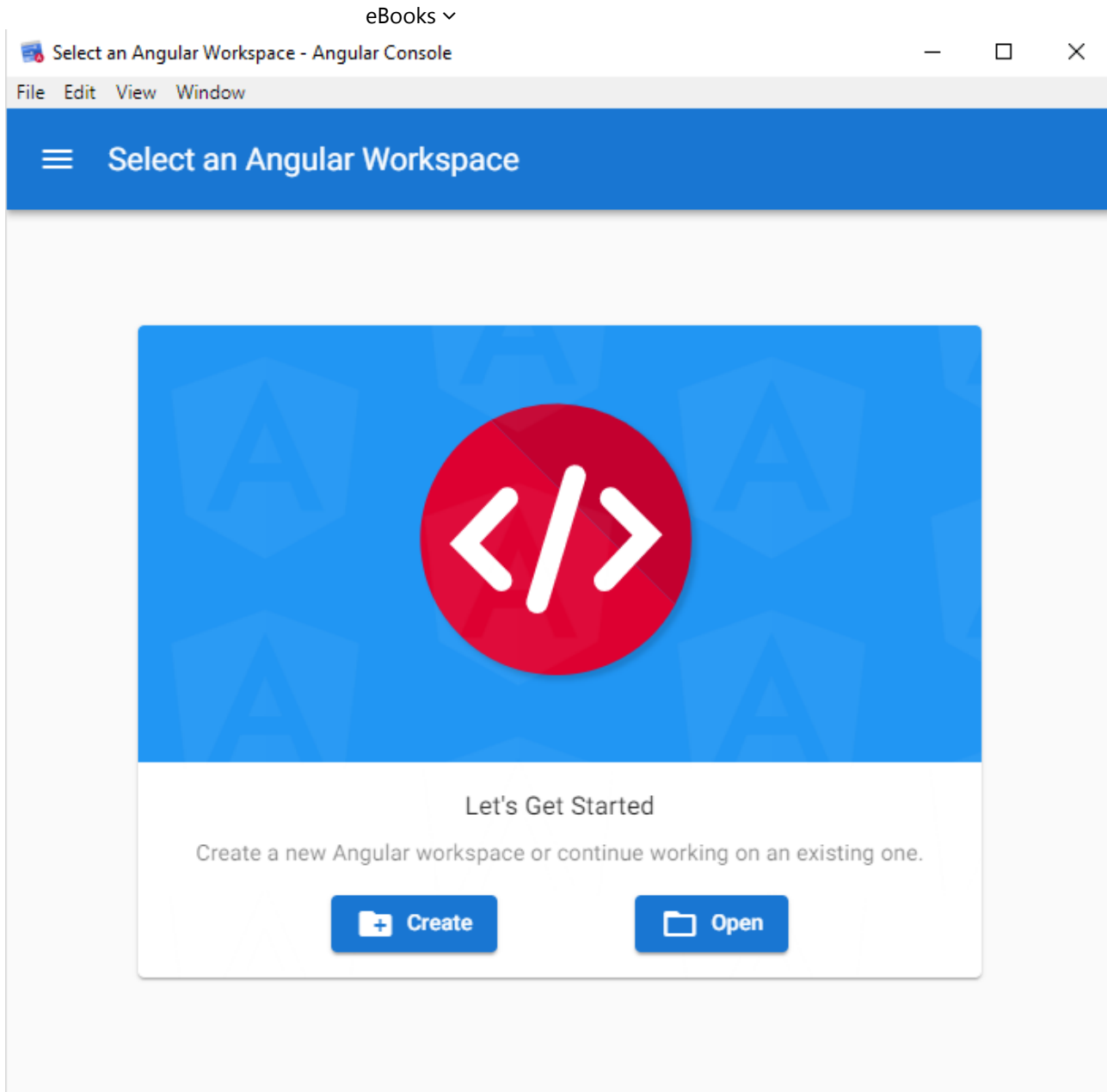
- Packaging application and release for the deployment
- Testing an Angular app
- Bootstrapping Angular app
- Various code generation options for Component, Module, Class, Pipes, Services, Enums, and many other types are also supported.
- Running the unit test cases
- Build and deployment our Angular application

### Q10. What is the Angular Console?

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<https://www.angular-tricks.com/ways-to-learn-angular-stuff-2019-getting-started-with-the-angular-cli/>  
 which is completely alternative to know all of the CLI commands. To download the GUI tool, you can get the  
 executable file from here. And after downloading the tool, it will look like this.



## Q11. What are the advantages of the Angular Console?

There are a few advantages and features provided by the Angular Console.

- Build CLI Commands visually
- Internal terminal for the output



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## Q12. How to get the version of Angular CLI?

To get the current version of the Angular CLI, we can use the below command.

```
ng -version
```

After running above command, we will get the output like this.

```

Angular CLI

Angular CLI: 7.1.2
Node: 10.12.0
OS: win32 x64
Angular: 6.1.10
... animations, common, compiler, compiler-cli, core, forms
... http, language-service, platform-browser
... platform-browser-dynamic, router

Package                         Version
-----
@angular-devkit/architect       0.11.2
@angular-devkit/build-angular   0.11.2
@angular-devkit/build-optimizer 0.11.2
@angular-devkit/build-webpack   0.11.2
@angular-devkit/core            7.1.2
@angular-devkit/schematics      7.1.2
@angular/cli                   7.1.2
@ngtools/webpack               7.1.2
@schematics/angular            7.1.2
@schematics/update              0.11.2
rxjs                           6.2.2
typescript                    2.9.2
webpack                        4.23.1


```

## Q13. How to specify the type of stylesheet using the command?



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For the available option, but for an older version, CSS was the default. Events at <https://www.css-tricks.com/115000-03-04-19-getting-started-with-azure-devops/> flag --style to specify any of the supported stylesheets. Services Articles the simple example by professional can use specific stylesheet format while creating a new Angular app.

ng new <project\_name>--styles <type>

## Example

```
ng new ngDemo --styles scss
```

After running the above command, now our default stylesheet format will be SCSS, not the CSS, this is how we can change the stylesheet type.

### Q14. What is Component in Angular?

Components are the basic building block of an Angular application. An Angular component mainly contains a template, class, and metadata. It is used to represent the data visually. A component can be thought of as a web page. An Angular component is exported as a custom HTML (<https://www.dotnettricks.com/learn/html>) tag like as: `<my-app> </my-app>`.



When we create new create an Angular app (<https://www.dotnettricks.com/learn/angular/tips-to-optimize-your-angular-application>)using CLI, it will create a default App component as the entry point of application. To declare a class as a Component, we can use the Decorators and decorator to declare a component looks like the below example.

```
import{ Component } from '@angular/core';
```

```
@Component({
  selector: 'my-app',
  template: `<h1></h1>`,
  styleUrls: ['./app.component.css']
})
export class AppComponent {
  message = "Hello From Angular";
}
```

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For creating a Getting Started with Azure DevOps On 12 Apr 2019 at 09:00 AM IST example. If we are using Angular 6.1.7, then we can use the following code to get started with azure devops.

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## Q15. What is the Template Expression?

Template expressions are the same expression that we use with JavaScript. But the difference is that we can use it within our Html template, so it looks like that we are using JavaScript along with Html but keep in mind that not every JavaScript expressions are supported like (new), (++) and (--). Let's see a simple example of the mathematical calculation using template expression.

### App.component.html

```
<p>Addition : 2</p>
<p>Subtraction : -25</p>
<p>Multiplication : 1250</p>
<p>Division : 0.5</p>
```

Here we have used brackets in order to use an expression within our template, and you can see the output like this.

```
Addition : 2
Subtraction : -25
Multiplication : 1250
Division : 0.5
```

## Q16. What is Data Binding in Angular?

Data binding is one of the important core concepts which is used to do the communication between the component and DOM. In other words, we can say that the Data binding is a way to add/push elements into HTML Dom or pop the different elements based on the instructions given by the Component. There are mainly three types of data binding supported in order to achieve the data bindings in Angular.

- One-way Binding (Interpolation, Attribute, Property, Class, Style)

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- Event Binding





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Using these different binding mechanisms we can easily communicate the component with the DOM element and perform various operations.

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## Q17. What is Interpolation?

Interpolation in Angular is used to show the property value from component to the template or used to execute the expressions. Generally, interpolation can be used to execute the JavaScript expressions and append the result to the Html DOM. Another use of Interpolation is to print the data or we can say one-way data, which is coming from the component i.e. from a variable or the item of an array. And interpolation can be used to achieve Property binding as well by using curly braces , let's see a simple example.

### App.component.ts

```
myMessage: string = "Hello World";
```

### App.component.html

```
<p></p>
<p>Total : 250</p>
```

The same way, we can use interpolation to the different places or elements like the source of the image, values for the classes, and other use as well. The output will look like this.

Hello World

Total : 250

## Q18. What is Property Binding?

Property binding is generally used to show or update the value of the variables in component and vice versa. We can also call it one-way data binding thus it is not used to update the two-way binding mechanism, and value will be reflected at the component level. Let's see the simple example by taking simple string value from component to the template.


### App.component.ts

We are going to create a string variable with a default value like this.

```
myMessage: string = "Hello World";
```

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And to show it getting started with the Angular DevOps, use a pipe which is called Interpolation like this.

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<h1></h1>

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Whenever we change the value of the myMessage variable, at that time it will be reflected in the template but not vice versa.

## Q19. What is Directive in Angular?


The directive in Angular basically a class with the (@) decorator and duty of the directive is to modify the JavaScript (<https://en.wikipedia.org/wiki/JavaScript>) classes, in other words, we can say that it provides metadata to the class. Generally, @Decorator changes the DOM whenever any kind of actions happen and it also appears within the element tag. The component is also a directive with the template attached to it, and it has template-oriented features. The directive in Angular can be classified as follows.





01. Component Directive
02. Structural Directive
03. Attribute Directive


## Q20. What is Module in Angular?

The module in **Angular** is a very essential part of the application, which is used to organize our **angular** app into a distributive manner. Or we can say that Modules plays an important role to structure our Angular application (<https://www.dotnettricks.com/learn/angular/tips-to-optimize-your-angular-application>). Each Angular application must have one parent module which is called an app module and it contains the list of different items which are listed below.

- Components
  - Service providers
  - Custom modules
  - Routing modules
  - Pipes
- Module file group all of them into a single file; the same module will be useful for bootstrapping the application.

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## Summary

I hope these questions and answers will help you to crack your Angular2+ Interview. These interview Questions have been taken from our new released eBook Angular Interview Questions & Answers. This book contains more than 175 Angular interview questions.

This eBook has been written to make you confident in Angular with a solid foundation. Also, this will help you to turn your programming into your profession. It's would be equally helpful in your real projects or to crack your Angular Interview.

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