**Tell me about yourself---**

* years of experience
* technology (html5, css3, bootstrap, sass, javascript, jQuery, es6, angular 2/4/5/6)
* web tools – webpack, babel, npm, grunt, gulp,
* google dev tools ,
* testing- jasmine, karma ,
* version control – git, svn,
* methodology- Agile, scrum, waterfall.

**Your current project-**

* Delta airlines
* Delta on flight service (take care customer service , payment process, stock inventory. )

**To built apps –**

* Html5, css3, bootstrap, sass, Angular5/6
* Angular 6 routing, custom directive, reusable component , custom pipe, angular service,

http client, angular routing , @input @Output.

* Agile
* Git
* Jasmine-karma

**New feature html5, css3**

* Semantic element- (header, footer, nav , aside, article, figure, siction)
* New form element- data list, output
* New attribute- date, time, number, email,
* New media – audio , vedio
* New graphics- svg and canvas
* API- geolocation, web storage , drag and drop

**Css3:**

* Rounded corner, gradient , transition, flexbox, grid layout, shadows

**Doctype**

* Document type,
* Browser render the document correctly
* DOCTYPE html - the doctype declaration tells the browser that this page is written in HTML5.

**Svg ang canvas**

* Svg use XML --- canvas use javaScript

----Canvas renders the graphcs pixel by pixel- forget the browser.

--- canves has to drow all over again.

---Canvas has no suapport to for event handales

* Svg is best suited for large rendering like google map – canvas for graphic intensive game
* Svg can be fast depending on the DOM- canvas would be faster for heavy graphics like animation

**CSS specificity**

Its nothing but some rules. If there are two or more conflicting css rules that point in the same element the browser follows some rules to determine which is more specific.

**Box model**

The CSS box model is essentially a box that wraps around every HTML element. It consists of: margins, borders, padding, and the actual content.

**Flexbox**

**Flexbox** is a one-dimensional layout method for laying out items in rows or columns. Items flex to fill additional space and shrink to fit into smaller spaces.

**Closure**

* A closure is a function having access the parent scope, event after the parent function has closed.
* A **closure** is a feature in **JavaScript** where an inner function has access to the outer (enclosing) function's variables — a scope chain. ... it has access to its own scope — variables defined between its curly brackets. it has access to the outer function's variables. it has access to the global variables.

**Hoisting**

* Hoisting is JavaScript's default behavior of moving declarations to the top.
* In javascript declertion are hoisted.

**ES6 new feature**

* Let , const
* Arrow function
* DE structuring
* Template string
* Class, promiss
* Generator
* Module

**Call() Apply() bind()**

The **call()** method is a predefined JavaScript method.

It can be used to invoke (call) a method with an owner object as an argument (parameter).Call takes Comma separated argument

var person = {  
  fullName: function(city, country) {  
    return this.firstName + " " + this.lastName + "," + city + "," + country;  
  }  
}  
var person1 = {  
  firstName:"John",  
  lastName: "Doe"  
}  
person.fullName.call(person1, "Oslo", "Norway");

person.fullName.apply(person1,[ "Oslo", "Norway"]);

And **Apply()** do the same thing but it takes argument(parameter) within an array [],

**Bind()**

The **bind()** method creates a new function that, when called, has its this keyword set to the provided value, with a given sequence of arguments preceding any provided when the new function is called.

Event Delegation   
 Event delegation is a technique involving adding event listener to a parent element to a parent element instead of adding them to the descendant element. The listener fire whenever the event is triggered on the descendant element due to event bubbling up the DOM.

**AngularJs /Angular2/ Angular4/ Angular5/ Angular6**

**AngularJs**

* It’s based on MVC architecture
* This uses use JavaScript to build the application.
* Based on controller concept
* Not mobile friendly

**Angular 2**

* Based on MVVM .
* This is used typescript to build the application
* Based on component
* Developed considering mobile platform
* Much Faster

**Angular 4**

* An update version of Angular2
* Improvement of AOT
* Support new version of TypeScript
* \*ngIf , ngfor , ngSwitch .
* A-4 has simplify and adding search parameter

**Angular 5**

* Build optimizer
* typescript 2.5
* Improve decorator
* httpClient
* new router lifecycle
* preserve white space
* Internationalized number, date, currency pipe

**Angular 6**

* Butter service worker support
* Butter URL serialization
* Lvy rendering engine
* Form validation change
* Angular Element /custom Element
* Ng update and ng add

**Angular 7**

* CLI prompts
* Angular material
* Virtual Scrolling
* Drag and drop

**Service in angular**

A service is used when a common functionality needs to be provided to various modules.

Top 30 Interview Questions and Answers on Angular 5

Introduction To Web Technology

Web development has come a long way in delivering functionalities online. There are tremendous changes happening both on the client-side technologies (like JS/Angular) and the server side technologies (like Java/Spring). Not only AngularJS, similar technologies like React JS and Vue JS are offering great scope in client development. Let us see what Angular has to offer in client development.

What is Angular and Why Angular?

Angular (2/4/5) is not a programming language like Javascript or Typescript. Angular is a front-end or client-side Framework, which needs a [programming](https://www.greycampus.com/programming) language like Typescript (developed by Microsoft). Now, what does it mean when one says, "Angular is a client-side framework"? It means that it runs on the client-side or user's browser and not on a Web Server (where java/python/ruby/vb.net run). Of course, there is the Angular Universal which allows Angular to run on a server; but, primarily, angular is a client-side framework. Angular is a product developed and maintained by the techie giant Google and has adopted the SPA (Single Page Application) principles.

Angular Interview Questions and Answers

With the introduction of these technologies, web development has catalyzed the generation of jobs like Front-end Developer or User Interface Developer. A newbie or an experienced developer can make a flourishing career by understanding any of the front-end technologies. Here are some of the questions that are frequently asked for any UI/Front-end Developer role.

FAQ on Angular

1. What’s new in Angular 5?

Certain tools are optimized in the new version of [Angular](https://www.greycampus.com/angularjs-training-instructor-led), let us see what the tools are:

* Angular 5 supports Typescript version 2.4
* Angular 5 supports RxJS 5.5 which has new features like Pipeable Operators
* A build tool to make the js bundles (files) lighter
* Ahead of Time (AOT) is updated to be on by default
* Events like ActivationStart and ActivationEnd are introduced in Router

### 2. Name the building blocks of Angular.JS

The Angular application is made using the following:

Modules

Component

Template

Directives

Data Binding

Services

Dependency Injection

Routing



### 9. What is ViewEncapsulation?

ViewEncapsulation decides whether the styles defined in a component can affect the entire application or not. There are three ways to do this in Angular:

Emulated: styles from other HTML spread to the component.

Native: styles from other HTML do not spread to the component.

None: styles defined in a component are visible to all components.

### 10. What are Services in Angular and what command is used to create a service?

Services help us in not repeating the code. With the creation of services, we can use the same code from different components. Here is the command to create a service in angular, ng g service User (a UserService is created when this command is used).

### 11. What is Dependency Injection in Angular 4?

When a component is dependent on another component the dependency is injected/provided during runtime.

### 12. What is Routing in Angular 5?

Routing helps a user in navigating to different pages using links.

### 13. How to handle Events in Angular 5?

Any activity (button click, mouse click, mouse hover, mouse move, etc) of a user on a frontend/web screen is termed as an event. Such events are passed from the view (.HTML) page to a typescript component (.ts).

### 14. What is a RouterOutlet?

RouterOutlet is a substitution for templates rendering the components. In other words, it represents or renders the components on a template at a particular location.

### 15. Explain the usage of {{}}?

The set of brackets {{}} when used with an HTML tag, represent data from a component. For example, on a HTML page which has <h1>{{variableName}}</h1>, here the ‘variableName’ is actually typescript (component) data representing its value on the template; i.e., HTML. This entire concept is called String Interpolation.

You may also like: [***Other Programming workshops***](https://www.greycampus.com/programming)

### 16. In how many ways the Data Binding can be done?

Data Binding happens between the HTML (template) and typescript (component). Data binding can be done in 3 ways:(i) Property Binding (ii) Event Binding (iii) Two-Way Data Binding.

17. What is the sequence of Angular Lifecycle Hooks?

OnChange()  -  OnInit()  -  DoCheck()  -  AfterContentInit()  -  AfterContentChecked()  -  AfterViewInit()  -  AfterViewChecked()  -  OnDestroy().

### 18. What is the purpose of using package.json in the angular project?

With the existence of package.json, it will be easy to manage the dependencies of the project. If we are using typescript in the angular project then we can mention the typescript package and version of typescript in package.json.

### 19. How is SPA (Single Page Application) technology different from the traditional web technology?

In traditional web technology, the client requests for a web page (HTML/JSP/asp) and the server sends the resource (or HTML page), and the client again requests for another page and the server responds with another resource. The problem here is a lot of time is consumed in the requesting/responding or due to a lot of reloading. Whereas, in the SPA technology, we maintain only one page (index.HTML) even though the URL keeps on changing.

### 20. What is Component in Angular Terminology?

A web page in Angular has many components involved in it. A Component is basically a block in which the data can be displayed on HTML using some logic usually written in typescript.

### 21. What are ngModel and how do we represent it?

ngModel is a directive which can be applied on a text field. This a two-way data binding. ngModel is represented by [()]

### 22. What does a Subscribe method do in Angular 4?

It is a method which is subscribed to an observable. Whenever the subscribe method is called, an independent execution of the observable happens.

**23. Differentiate between Observables and Promises.**

Observables are lazy, which means nothing happens until a subscription is made. Whereas Promises are eager; which means as soon as a promise is created, the execution takes place. Observable is a stream in which passing of zero or more events is possible and the callback is called for each event. Whereas, promise handles a single event.

### 24. What is an AsyncPipe in Angular?

When an observable or promise returns something, we use a temporary property to hold the content. Later, we bind the same content to the template. With the usage of AsyncPipe, the promise or observable can be directly used in a template and a temporary property is not required.

### 25. Explain Authentication and Authorization.

Authentication: The user login credentials are passed to an authenticate API (on the server). On the server side validation of the credentials happens and a JSON Web Token (JWT) is returned. JWT is a JSON object that has some information or attributes about the current user.  Once the JWT is given to the client, the client or the user will be identified with that JWT.

Authorization: After logging in successfully, the authenticated or genuine user does not have access to everything. The user is not authorized to access someone else’s data,  he/she is authorized to access some data.

### 26. What is AOT Compilation?

Every angular application gets compiled internally. The angular compiler takes javascript code, compiles it and produces javascript code again. Ahead-of-Time Compilation does not happen every time or for every user, as is the case with Just-In-Time (JIT) Compilation.

### 27. What is Redux?

It is a library which helps us maintain the state of the application. Redux is not required in applications that are simple with the simple data flow, it is used in Single Page Applications that have complex data flow.

### 28. What are the Pipes?

This feature is used to change the output on the template; something like changing the string into uppercase and displaying it on the template. It can also change Date format accordingly.

### 29. Differentiate between ng-Class and ng-Style.

In ng-Class, loading of CSS class is possible; whereas, in ng-Style we can set the CSS style.

### 30. Why Typescript with Angular?

Typescript is a superset of Javascript. Earlier, Javascript was the only client-side language supported by all browsers. But, the problem with Javascript is, it is not a pure Object Oriented Programming Language. The code written in JS without following patterns like Prototype Pattern becomes messy and finally leading to difficulties in maintainability and reusability. Instead of learning concepts (like patterns) to maintain code, programmers prefer to maintain the code in an OOP approach and is made available with a programming language like Typescript was thus developed by Microsoft in a way that it can work as Javascript and also offer what javascript cannot ie;

* pure OOPS as Typescript offers concepts like Generics, Interfaces and Types (a Static Typed Language) which makes it is easier to catch incorrect data types passing to variables.
* TS provides flexibility to programmers experienced in java, .net as it offers encapsulation through classes and interfaces.
* JS version ES5 offers features like Constructor Function, Dynamic Types, Prototypes. The next version of Javascript ie ES6 introduced a new feature like Class keyword but not supported by many browsers.
* TS offers Arrow Functions (=>) which is an ES6 feature not supported by many browsers directly but when used in TS, gets compiled into JS ES5 and runs in any browser.
* TS is not the only alternative to JS, we have CoffeeScript, Dart(Google).
* Finally, it is like, TS makes life easier when compared to JS.

Explore [***Top 55 Java Interview Questions and Answers for 2018***](https://www.greycampus.com/blog/programming/top-fifty-five-Java-interview-questions-and-answers)

## Few Tips and Tricks to groom yourself for the Interview

Here are some tips and tricks to answer one of the famous questions, "Tell me about yourself". This is a very common question which everyone (including a highly experienced candidate) has to answer in an interview. Here, my concentration is very much on freshers and people with minimal experience. As this group of candidates usually end up giving irrelevant information. When this question is asked, make sure the following points are considered:

Get started with your current status and gradually cover your past achievements. The current status could be your work or your education. And the past achievements could be your previous projects or your lower education qualification.

It’s a good practice to keep your conversation entirely technical and not personal. Never tell your family details to the panel till asked. They are not interested in your family background. Always remember the panel is interested in you as a technical person and nothing else.

Answer the questions aptly, be to the point and do not extend the answer or elaborate too much, unless asked to. Be straightforward and say "No" if you do not know it.

Do not take too much time in answering the questions, as the panel would want to test the depth of your knowledge. So, allow them to talk and allow them to get the most out of you.

Gone are the days when you simply show yourself as a person who can deliver the given task. Show them that you are into multiple things, apart from your regular work.

## Conclusion

Having or learning a new technology is always a promising path to one’s career. Angular is now a hot cake in the market; it not only helps in developing web applications, but it is also useful in mobile applications development. AngularJS has already proved itself as a reliable path for web development. Many companies (like Amazon, Paypal, Upwork and many more) have created their websites using Angular. And also propose the same technology for their future projects. This is the right time to shift or choose a career in web development.