**1) What is AngularJS?**

AngularJS is a javascript framework used for creating single web page applications.  It allows you to use HTML as your template language and enables you to extend HTML’s syntax to express your application’s components clearly

**2) Explain what are the key features of AngularJS ?**

The key features of AngularJS are

* Scope
* Controller
* Model
* View
* Services
* Data Binding
* Directives
* Filters
* Testable

**3) Explain what is scope in AngularJS ?**

Scope refers to the application model, it acts like glue between application controller and the view.  Scopes are arranged in hierarchical structure and impersonate the DOM ( Document Object Model) structure of the application.  It can watch expressions and propagate events.

**4) Explain what is services in AngularJS ?**

In AngularJS services are the singleton objects or functions that are used for carrying out specific tasks.  It holds some business logic and these function can be called as controllers, directive, filters and so on.

**5) Explain what is Angular Expression? Explain what is key difference between angular expressions and JavaScript expressions?**

Like JavaScript,  Angular expressions are code snippets that are usually placed in binding such as {{ expression }}

The key difference between the JavaScript expressions and Angular expressions

* **Context :** In Angular, the expressions are evaluated against a scope object, while the Javascript expressions are evaluated against the global window
* **Forgiving:** In Angular expression evaluation is forgiving to null and undefined, while in Javascript undefined properties generates TypeError or ReferenceError
* **No Control Flow Statements:** Loops, conditionals or exceptions cannot be used in an angular expression
* **Filters:** To format data before displaying it you can use filters

**6) With options on page load how you can initialize a select box ?**

You can initialize a select box with options on page load by using **ng-init** directive

* <div ng-controller = " apps/dashboard/account " ng-switch
* On = "! ! accounts" ng-init = " loadData ( ) ">

**7) Explain what are directives ? Mention some of the most commonly used directives in AngularJS application ?**

A directive is something that introduces new syntax, they are like markers on DOM element which attaches a special behavior to it. In any AngularJS application, directives are the most important components.

Some of the commonly used directives are **ng-model, ng-App, ng-bind, ng-repeat , ng-show** etc.

**8) Mention what are the advantages of using AngularJS ?**

AngularJS has several advantages in web development.

* AngularJS supports MVC pattern
* Can do two ways data binding using AngularJS
* It has per-defined form validations
* It supports both client server communication
* It supports animations

**9) Explain what Angular JS routes does ?**

Angular js routes enable you to create different URLs for different content in your application.  Different URLs for different content enables user to bookmark URLs to specific content.  Each such bookmarkable URL in AngularJS is called a route

A value in Angular JS is a simple object.  It can be a number, string or JavaScript object.  Values are typically used as configuration injected into factories, services or controllers. A value should be belong to an AngularJS module.

Injecting a value into an AngularJS controller function is done by adding a parameter with the same name as the value

**10)  Explain what is data binding in AngularJS ?**

Automatic synchronization of data between the model and view components is referred as data binding in AngularJS.  There are two ways for data binding

1. **Data mining in classical template systems**
2. **Data binding in angular templates**

**11)  What makes AngularJS better ?**

* **Registering Callbacks:** There is no need to register callbacks . This makes your code simple and easy to debug.
* **Control HTML DOM programmatically:**All the application that are created using Angular never have to manipulate the DOM although it can be done if it is required
* **Transfer data to and from the UI:**AngularJS helps to eliminate almost all of the boiler plate like validating the form, displaying validation errors, returning to an internal model and so on which occurs due to flow of marshalling data
* **No initilization code:**With AngularJS you can bootstrap your app easily using services, which auto-injected into your application in Guice like dependency injection style

**12)  Explain what is string interpolation in Angular.js ?**

In Angular.js the compiler during the compilation process matches text and attributes using interpolate service to see if they contains embedded expressions.  As part of normal digest cycle these expressions are updated and registered as watches.

**13)  Mention the steps for the compilation process of HTML happens?**

Compilation of HTML process occurs in following ways

* Using the standard browser API, first the HTML is parsed into DOM
* By using the call to the $compile () method, compilation of the DOM is performed.  The method traverses the DOM and matches the directives.
* Link the template with scope by calling the linking function returned from the previous step

**14)  Explain what is directive and Mention what are the different types of Directive?**

During compilation process when specific HTML constructs are encountered a behaviour or function is triggered, this function is referred as directive.  It is executed when the compiler encounters it in the DOM.

Different types of directives are

* Element directives
* Attribute directives
* CSS class directives
* Comment directives

**15)  Explain what is linking function and type of linking function?**

Link combines the directives with a scope and produce a live view.  For registering DOM listeners as well as updating the DOM, link function is responsible. After the template is cloned it is executed.

* Pre-linking function: Pre-linking function is executed before the child elements are linked.  It is not considered as the safe way for DOM transformation.
* Post linking function: Post linking function is executed after the child elements are linked. It is safe to do DOM transformation by post-linking function

**16)  Explain what is injector?**

An injector is a service locator.  It is used to retrieve object instances as defined by provider, instantiate types, invoke methods and load modules.  There is a single injector per Angular application, it helps to look up an object instance by its name.

**17)  Explain what is the difference between link and compile in Angular.js?**

* Compile function: It is used for template DOM Manipulation and collect all of the directives.
* Link function: It is used for registering DOM listeners as well as instance DOM manipulation. It is executed once the template has been cloned.

**18)  Explain what is factory method in AngularJS?**

For creating the directive, factory method is used.  It is invoked only once, when compiler matches the directive for the first time.  By using $injector.invoke the factory method is invoked.

**19)  Mention what are the styling form that ngModel adds to CSS classes ?**

ngModel adds these CSS classes to allow styling of form as well as control

* ng- valid
* ng- invalid
* ng-pristine
* ng-dirty

**20)  Mention what are the characteristics of “Scope”?**

* To observer model mutations scopes provide APIs ($watch)
* To propagate any model changes through the system into the view from outside of the Angular realm
* A scope inherits properties from its parent scope,  while providing access to shared model properties, scopes can be nested to isolate application components
* Scope provides context against which expressions are evaluated

**21)  Explain what is DI (Dependency Injection ) and how an object or function can get a hold of its dependencies ?**

DI or Dependency Injection is a software design pattern that deals with how code gets hold of its dependencies.  In order to retrieve elements of the application which is required to be configured when module gets loaded , the operation “config” uses dependency injection.

These are the ways that object uses to hold of its dependencies

* Typically using the new operator, dependency can be created
* By referring to a global variable, dependency can be looked up
* Dependency can be passed into where it is required

**22)  Mention what are the advantages of using Angular.js framework ?**

Advantages of using Angular.js as framework are

* Supports two way data-binding
* Supports MVC pattern
* Support static template and angular template
* Can add custom directive
* Supports REST full services
* Supports form validations
* Support both client and server communication
* Support dependency injection
* Applying Animations
* Event Handlers

**23)  Explain the concept of scope hierarchy?  How many scope can an application have?**

Each angular application consist of one root scope but may have several child scopes. As child controllers and some directives create new child scopes, application can have multiple scopes. When new scopes are formed or created they are added as a children of their parent scope. Similar to DOM, they also creates a hierarchical structure.

**24)  Explain what is the difference between AngularJS and backbone.js?**

AngularJS combines the functionalities of most of the 3rd party libraries, it supports individual functionalities required to develop HTML5 Apps.  While Backbone.js do their jobs individually.

**25)  Who created Angular JS ?**

Intially it was developed by Misko Hevery and Adam Abrons. Currently it is being developed by Google.

* **Explain the architecture of AngularJS?**

AngularJS is architecture on 3 components. They are

* + The Template (View)
  + The Scope (Model)
  + The Controller (Controller)

AngularJS extends HTML attributes with Directives and binds data to HTML with Expressions.

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* **Q3.**

**What is the Template in AngularJS?**

The template is the HTML portion of the angular app. It is exactly like a static HTML page, except that templates contain additional syntax which allows data to be injected in it in order to provide a customized user experience.

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* **Q4.**

**What is the scope in AngularJS?**

The scope is the object that represents the “model” of your application. It contains fields that store data which is presented to the user via the template, as well as functions which can be called when the user performs certain actions such as clicking a button.

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* **Q5.**

**What is the controller in AngularJS?**

The controller is a function which generally takes an empty scope object as a parameter and adds to it the fields and functions that will be later exposed to the user via the view.

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* **Q6.**

**Explain Directives in AngularJs?**

AngularJS directives are extended HTML attributes with the prefix ng-  
The 3 main directives of angular js are

* + **ng-app:-**directive is used to flag the HTML element that Angular should consider to be the root element of our application. Angular uses spinal-case for its custom attributes and camelCase for the corresponding directives which implement them.
  + **ng-model:-** directive allows us to bind values of HTML controls (input, select, textarea) to application data. When using ngModel, not only change in the scope reflected in the view, but changes in the view are reflected back into the scope.
  + **ng-bind:-**directive binds application modal data to the HTML view.

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* **Q7.**

**List some tools for testing AngularJS applications?**

For testing AngularJS applications there are certain tools that you should use that will make testing much easier to set up and run.

**Karma**

Karma is a JavaScript command line tool that can be used to spawn a web server which loads your application’s source code and executes your tests. You can configure Karma to run against a number of browsers, which is useful for being confident that your application works on all browsers you need to support. Karma is executed on the command line and will display the results of your tests on the command line once they have run in the browser.

Karma is a NodeJS application and should be installed through NPM/YARN. Full installation instructions are available on the Karma website.

**Jasmine**

Jasmine is a behavior-driven development framework for JavaScript that has become the most popular choice for testing AngularJS applications. Jasmine provides functions to help with structuring your tests and also making assertions. As your tests grow, keeping them well structured and documented is vital, and Jasmine helps achieve this.

Jasmine comes with a number of matches that help you make a variety of assertions. You should read the Jasmine documentation to see what they are. To use Jasmine with Karma, we use the karma-jasmine test runner.

**angular-mocks**

AngularJS also provides the ngMock module, which provides mocking for your tests. This is used to inject and mock AngularJS services within unit tests. In addition, it is able to extend other modules so they are synchronous. Having tests synchronous keeps them much cleaner and easier to work with. One of the most useful parts of ngMock is $httpBackend, which lets us mock XHR requests in tests and return sample data instead.

Source:<https://docs.angularjs.org/guide/unit-testing>

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* **Q8.**

**How do you share data between controllers in AngularJs?**

We can share data by creating a service, **Services** are easiest, fastest and cleaner way to share data between controllers in AngularJs.  
There are also other ways to share data between controllers, they are

* + Using **Events**
  + **$parent, nextSibling, controllerAs**
  + Using the **$rootScope**

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* **Q9.**

**Explain AngularJS digest cycle?**

AngularJS digest cycle is the process behind Angular JS data binding.  
In each digest cycle, Angular compares the old and the new version of the scope model values. The digest cycle is triggered automatically. We can also use $apply() if we want to trigger the digest cycle manually.

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* **Q10.**

**What is internationalization in Angularjs?**

**Internationalization** is a way to show locale-specific information on a website.It is used to create multilingual language websites.

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* **Q11.**

**Difference between AngularJS and JavaScript Expressions?**

Below are some major difference between AngularJS and JavaScript Expressions

* + Both can contain literals, operators, and variables.
  + AngularJS expressions can be written in HTML but JavaScript expressions are not.
  + AngularJS expressions do not support conditionals, loops, and exceptions, while JavaScript expressions do.
  + AngularJS expressions support filters, while JavaScript expressions do not.

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* **Q12.**

**Explain basic steps to set up an Angular app?**

* + Create an angular.module
  + Assign a controller to the module
  + Link your module to HTML with ng-app
  + Link the controller to HTML with ng-controller directive

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* **Q13.**

**What are Angular Modules?**

Angular Modules are place where we write code of our Angular application.Writing Modules makes our code more maintainable, testable, and readable. All dependencies for our app are defined in modules.

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* **Q14.**

**Explain Directive scopes?**

There are three types of directive scopes available in Angular.

* + **Parent Scope**: is default scope
  + **Child Scope**:  If the properties and functions you set on the scope are not relevant to other directives and the parent, you should probably create a new child scope.
  + **Isolated Scope**: Isolated Scope is used if the directive you are going to build is self-contained and reusable. Does not inherit from parent scope, used for private/internal use.

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* **Q15.**

**How to isolate a directive’s Scope in Angular?**

You can isolate a directive’s Scope by passing an object to the scope option of directive.  
This tells the directive to keep scope inside of itself and not to inherit or share with other scopes.

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* **Q16.**

**What is the difference between one-way binding and two-way binding ?**

In One-Way data binding, view (UI part) not updates automatically when data model changed. We need to write custom code to make it updated every time.  
ng-bind has one-way data binding.

While in two way binding scope variable will change it’s value every time its data model changed is assigned to a different value.

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* **Q17.**

**How would you make an Angular service return a promise? Write a code snippet as an example**

To add promise functionality to a service, we inject the “$q” dependency in the service, and then use it like so:

angular.factory('testService', function($q){

return {

getName: function(){

var deferred = $q.defer();

//API call here that returns data

testAPI.getName().then(function(name){

deferred.resolve(name)

})

return deferred.promise;

}

}

})

The $q library is a helper provider that implements promises and deferred objects to enable asynchronous functionality

Source: [https://docs.angularjs.org/api/ng/service/$q](https://docs.angularjs.org/api/ng/service/%24q)

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* **Q18.**

**Explain the role of $routeProvider in AngularJS?**

The $routeProvider is used to configure roots within an AngularJS application. It can be used to link a URL with a corresponding HTML page or template, and a controller (if applicable).

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* **Q19.**

**Explain how does Angular implement two-way binding?**

Data-binding in Angular apps is the automatic synchronization of data between the model and view components. The way that Angular implements data-binding lets you treat the model as the single-source-of-truth in your application. The view is a projection of the model at all times. When the model changes, the view reflects the change and vice versa.

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* **Q20.**

**What is dependency injection and how does it work?**

AngularJS was designed to highlight the power of dependency injection, a software design pattern that places an emphasis on giving components their dependencies instead of hardcoding them within the component. For example, if you had a controller that needed to access a list of customers, you would store the actual list of customers in a service that can be injected into the controller instead of hardcoding the list of customers into the code of the controller itself. In AngularJS you can inject values, factories, services, providers, and constants.

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* **Q21.**

**What is $rootscope? How is it different from the scope?**

In Angular JS $rootscope and $scope both are an object which is used for sharing data from the controller to view.  
The main difference between $rootscope and $scope is that $rootscope is available globally to across all the controllers whereas $scope is available only in controllers that have created it along with its children controllers.

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* **Q22.**

**What is the difference between $scope and scope?**

In Angular js $scope is used whenever we have to use dependency injection (D.I) whereas as the scope is used for directive linking.

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* **Q23.**

**What are Angular Expressions?**

Angular js Expression is JavaScript alike code snippets used to bind expression data in view or HTML. Angular expressions are written inside two curly braces.

{{a+b}}

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* **Q24.**

**List the major browsers Supported by Angular js?**

Below are some major browsers supported by Angular js

* + Mozilla Firefox
  + Google Chrome
  + Microsft Edge
  + IE 10,11
  + IE Mobile,
  + Safari, iOS
  + Android: Nougat (7.0) Marshmallow (6.0)

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* **Q25.**

**How to enable HTML5 mode in Angular 1.x?**

**html5Mode** method of $locationProvider module is used to enable HTML5 mode in Angular 1.x. For creating pretty URLs and removing # from URLs html5Mode need to true.

Enabling html5Mode to true in Angular 1.x.

angular.module('myApp', [])

.config(function($routeProvider, $locationProvider) {

$routeProvider

.when('/', {

templateUrl : 'partials/home.html',

controller : mainController

})

// use the HTML5 History API

$locationProvider.html5Mode(true);

});

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* **Q26.**

**List some of the built-in validators in Angular JS?**

Angular js supports all standard HTML5 attributes to validate input.Below are few built-in validators in Angular js.

* + required
  + min
  + max
  + type=”number” OR type=”email”

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* **Q27.**

**What is Angular’s prefixes $ and $$?**

Angular uses these prefixes to prevent accidental code collision with users code.  
$ prefix is used with public objects whereas $$ prefix is used with a private object.

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* **Q28.**

**What are directives? How to create and use custom Directive in Angular js.**

In angular Directives are used to extend the attributes of Html elements.  
Creating custom directive in Angular js.  
Angular js Directives are restricted to element and attribute and created using a directive function.Here is sample code to create a directive in Angular js.

var app = angular.module("myApp", []);

app.controller('AppController', function($scope) {

var users=[];

var user1={};

user1.firstName="Satyam";

user1.lastName="Kumar";

users.push(user1);

var user2={};

user2.firstName="Ravi";

user2.lastName="Sankar";

user2.push(user2);

$scope.users=students;

});

app.directive('user', function() {

//define the directive object

var directive = {};

//restrict = E, implies that directive is Element directive

directive.restrict = 'E';

//element will be replaced by this text/html

directive.template = "First Name: **{{user.firstName}}** , Last Name: **{{user.lastName}}**";

var linkFunction = function($scope, element, attributes) {

element.css("background-color", "#e1e1e1");

}

directive.link=linkFunction;

return directive;

});

As Above directive is restricted to Element directive, so you can use this directive as an element only.  
Usage:

<div ng-app="app">

<h1>Custom Directive Demo</h1>

<div ng-controller="UserController">

<div ng-repeat="user in users">

<user></user>

</div>

</div>

</div>

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* **Q29.**

**How to access parent scope from child controller in Angular JS?**

In angular there is a scope variable called $parent (i.e. $scope.$parent). $parent is used to access parent scope from child controller in Angular JS.  
Example:

<div ng-controller="ParentCtrl">

<h1>{{ name }}</h1>

<p>{{ address }}</p>

<div ng-controller="ChildCtrl">

<h1>{{ title }}</h1>

<input type="text" ng-model="$parent.address" />

</div>

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* **Q30.**

**How to do email and Phone no. validation in Angular JS?**

Angular form validation and ng-pattern directive can be used to validate the email and phone number in Angular JS.

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* **Q31.**

**What is the difference between a link and compile in Angular JS?**

**Compile function**: To template DOM manipulation and to gather all the directives, the compile function is used.  
**Link function**: To register DOM listeners as well as for the instance DOM manipulation, the Link function is used.

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* **Q32.**

**How can you get URL parameters in Controller?**

The RouteProvider and the RouteParams can be used to get the URL parameters in the controller.  
As the route wires up the URL to the controller and RouteParams can be passed to the controller to get the URL parameters.

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* **Q33.**

**How to enable caching in Angular 1.x?**

Caching can be enabled by setting the config.cache value or the default cache value to TRUE or to a cache object that is created with $cacheFactory.  
In case you want to cache all the responses, then you can set the default cache value to TRUE.  
And, if you want to cache a specific response, then you can set the config.cache value to TRUE.

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* **Q34.**

**Explain the use of Ng-If, Ng-Switch, And Ng-Repeat directives?**

**ng-if** – This directive removes a portion of the DOM tree, which is based on the expression.  
In case the expression is assigned to ng-if, it evaluates to a false value, and then the element is deleted from the DOM tree, or else a clone of the element is reinserted into the DOM.  
**ng-switch** – This directive is used based on a scope expression to conditionally swap DOM structure on the template.  
The ng-switch default directive will be preserved at the specific location in a template.  
**ng-repeat**– This directive is used to instantiate the template once per item from a collection.  
Each template which is instantiated gets its own scope where the given loop variable is set to the current collection of item.

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* **Q35.**

**How to change start and end symbols used for AngularJS expressions?**

Passing the $interpolateprovider in the config can help us change the start and end symbols used in our Angular JS expressions.

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* **Q36.**

**List some difference between Angularjs and Angular 2?**

|  |  |
| --- | --- |
| **Difference between AngularJS and Angular 2** | |
| Angular js or Angular 1.x is based on MVC Architecture | Angular 2 is based on service/ components |
| Javascript is used to write applications in Angular js. | Typescript (superset of javascript) is used to write application in Angular2. |
| Controller are used to write logics and interact with Model and view. | In Angular 2 Controllers are totally elminated and Components take its place. |
| Angular 1 is created for developing Single page web-applications. | In Angular 2 can used for developing native applications for mobile platform like React Native as well interative web applications. |
| Angularjs is easy to setup, you just need to include angular.js library to start. | Angular 2 is dependent on other modules/ package.It give little brainstrom to install and run Angular 2. |
| In Angularjs ng-app directive is used bootstrap the app. | ng-app is removed in Angular 2. You need to call Angular2 bootstrap method to bootstrap your application. |

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* **Q37.**

**How to validate an URL in Angular JS?**

Adding the regex directly to the ng pattern to the attribute can help you validate the URL in Angular JS.

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* **Q38.**

**What is the use of $locale service in Angular JS?**

locale service provides with the localization rules for Angular JS components.

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* **Q39.**

**What is transclusion in Angular JS?**

The transclusion in Angular JS will allow you to move the original children of a directive to a specific location inside a new template.The ng directive marks the insertion point for the transcluded DOM of the very near parent directive that uses transclusion.  
**ng-transclude** or **ng-transclude-slot** attribute directives are used for transclusion in Angular JS.

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* **Q40.**

**What is a locale ID in Angular JS?**

A locale is a particular geographical region. The commonly used **locale ID** comprises of two parts, the language code, and the country code.

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* **Q41.**

**What is the difference between a stateful and stateless component in AngularJs?**

A **stateful component** is a detail implementation of the component that can change over time and the stateful components can have stateless components inside them, while the **stateless components** are a plain JavaScript function.

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* **Q42.**

**List some methods supported by $http service?**

Some of the methods supported by $http services are

* + GET
  + HEAD
  + POST
  + PUT
  + DELETE
  + CONNECT
  + OPTIONS
  + TRACE

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* **Q43.**

**What is "track by" in AngularJS and how does it work?**

The **track by** is used with ng-repeat and describes to AngularJS how it tracks the association between the DOM and the Model. It improves the rendering performance.

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* **Q44.**

**Explain $templateCache in Angular Js?**

**$templateCache** is a Cache object that is created by the $cache factory. The first time you use a template, it is loaded in the $templateCache for easy and quick retrieval.

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* **Q45.**

**What is the difference between a unit and end-to-end (e2e) test?**

AngularJS provides full support for both the **unit** and **end-to-end testing**.

The unit testing is a method that helps the developers validate the isolated pieces of code and end-to-end testing is required when you want to ascertain the set of components integrated together work as you expect.

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* **Q46.**

**Explain .config() and .run() methods in AngularJS?**

**.config()** – The .config() function is used to add configuration blocks on the module.

**.run()** - The .run() function is used to add run blocks on the module.

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* **Q47.**

**What is a Mocked Service in Angular Js? How to use it?**

It is the most common type of dependency on AngularJS application. A service can be mocked in two ways by either getting an instance of actual service using an inject block or by implementing a mock service using $provide.

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* **Q48.**

**How to implement caching in Angular 1.x?**

The caching is implemented by using a cache object that stores and retrieves data and is primarily used by $templaterequest and script directive to cache the templates.

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* **Q49.**

**What are Compile, Pre, and Post linking in AngularJS?**

**Compile** – It compiles an HTML DOM into a template and produces a template function that is used to link scope and template together. It is executed only once.

**Pre-link** – It is executed before the child elements are linked.

**Post-link** – It is executed after the child elements are linked.

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* **Q50.**

**How to use $scope.$watch and $scope.$apply in AngularJS?**

In AngularJS **$scope.$watch** the function is used to create a watch of some variables and $scope.$apply function is used to execute some code and call the $digest function.

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* **Q51.**

**How to use Multiple ng-app within a page in AngularJS?**

There are two ways to use a **Multiple ng-app** within a single page in AngularJS. One is the bootstrap method and the other is ngModules directive.

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* **Q52.**

**How to set focus on the input field in Angular 1.x?**

Define a directive, use that directive on the element we are targeting and have it $watch a trigger/property to know when to focus the element.

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* **Q53.**

**Write a code to upload an image in Angular js?**

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* **Q54.**

**How to send an Http post request in Angular js?**

The **$http.post** method is used to send an http post request in AngularJS. The method has three parameters namely URL, data, config.

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* **Q55.**

**What is the difference between ‘this’ vs $scope in AngularJS controllers?**

The **$scope** is an object with the available methods and properties. It is used to get all controls on the controller.JS files. It is available for both the controller and the view. "This" is the controller used when the controller’s constructor function is called.

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* **Q56.**

**How $location is different from window.location?**

**$Location** is used when you don't want the full page to reload when the URL is changed and the **window.location** is used when you want to change the URL, reload the page or navigate to a different page.

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* **Q57.**

**What is the use of ng-cloak directive?**

It is used to prevent the Angular HTML template from getting displayed briefly by the browser in its uncompiled form while the application is still loading. It is used to avoid the undesirable flicker effect caused by HTML template display.

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* **Q58.**

**How to do Animation in AngularJS?**

To animate the application, you need to include the AngularJS Animate Library and then refer to the ngAnimate module into the application or add ngAnimate as a dependency in your application module.

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* **Q59.**

**How to format a date in Angular js?**

The AngularJS provides a date filter through which you can format the date into the required form.

**Syntax**

{{ today | date:'MM/dd/yyyy'}}

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* **Q60.**

**What is $emit, $broadcast and $on in AngularJS?**

$broadcast, $emit, and $on are services in Angular Js. Below we have listed why they are used In Angular JS.

**$broadcast()**: $broadcast() service of Angular is used to propagate the event to all of his child controllers and it’s registered parent $rootscope.scope listeners.

$rootScope.$broadcast('SummaryEvent', {

priority: priority

});

**$on()**: AngularJS $on() service is used to listen any type of event raised by $broadcast and $emit.

$scope.$on(''SummaryEvent'', function (event, args) {

Vm.priority=args.priority

});

**$emit**: $emit is similar to $broadcast service but it is used to propagate the event to upwards through the scope hierarchy and notify to the registered $rootScope.Scope listeners.

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* **Q61.**

**What are scopeless controller? why to use them?**

**Scopeless controllers** have no $scope injected and the functions and properties are binded directly onto the controller. Scopeless controllers are used in the situation where the controller becomes complex by using the $scope to provide data.

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* **Q62.**

**What is Isolate Scope and why it is required?**

It is a scope that exists separately with no prototypal inheritance. It makes the components reusable and permits to control the binding either one-way or two-way.

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* **Q63.**

**What is the difference between $evalAsync and $timeout?**

**$evalAsync** executes the expression on the current scope at a later time and makes no guarantees as to when the expression will be executed.

**$timeout** also executes the expression on the current scope on later time but also runs after the DOM has been manipulated by the Angular and after the browser renders that cause flicker in some cases.

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* **Q64.**

**How to disable right click event in Angular js?**

In order to disable the right click event in AngularJS, you need to add the disable-right-click as the element’s attribute. Simply use **preventDefault()**, this cancels the event and stops further propagation of the event.

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* **Q65.**

**What is a provider in Angular JS?**

The provider in AngularJS is used to internally create a factory, services etc., during the phase of configuration. The provider is the special factory method which is used to return the service/value/factory.

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* **Q66.**

**Explain Bootstrapping in Angular Js?**

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* **Q67.**

**How Angular.js is different from Jquery?**

AngularJS is a framework with key features like models, two-way binding, directives, routing, dependency injections, unit tests etc., whereas the Jquery is a library used for DOM manipulation with no two-way binding features.

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* **Q68.**

**List and explain different types of directive available in Angular Js?**

The different types of directives available in AngularJS are:

* + **Element directives** − It activates when a matching element is encountered.
  + **Attribute** − It activates when a matching attribute is encountered.
  + **CSS** − It activates when a matching CSS style is encountered.
  + **Comment** − It activates when a matching comment is encountered.

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* **Q69.**

**What is a dynamic route in Angular js and how do you implement it?**

A dynamic route is a typical approach to server communication is using the HTTP server. In order to implement it, firstly write a config function that uses $http and $routeprovider to gather all information on available routes.

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* **Q70.**

**What is different between ng routing and UI routing?**

The ng routing is deep linking services and directives for angular applications whereas the UI routing is a 3rd party module routing and is very powerful. It does everything an ng router does as well as has many other extra functions.

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* **Q71.**

**Explain UI Routing in AngularJS?**

t is a routing framework for AngularJS and provides a different approach than ngRoute. It changes the application views based on the state of the application and not just the route URL

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* **Q72.**

**Explain Routing in Angular Js?**

Routing is one the core feature of AngularJs Framework that is useful in building a single page web application with multiple views. In Angular ngRoute Module is used to implement Routing. **ngView**,**$routeProvider**,**$route** and $routeParams are different components of the **ngRoute** Module that helps to configure and mapping Url to views.

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* **Q73.**

**Explain Event in Angular js. List some events you have worked in AngularJs?**

The AngularJS framework includes certain directives that can be used to provide the custom behavior on various DOM events. Some of the events are:

* + ng-click
  + ng-keyup
  + ng-keydown
  + ng-keypress
  + ng-dblclick
  + ng-mousedown
  + ng-mouseleave
  + ng-mouseenter
  + ng-change

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* **Q74.**

**How to create a service in Angular js?**

The service in AngularJS is created by registering it with the module it is going to operate in. There are three ways to create the angular service. They are:

* + Factory
  + Service
  + Provider

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* **Q75.**

**How to disable a control or element in Angular js?**

Using ng-disabled attribute will help you disable element in **AngularJS**.

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* **Q76.**

**Explain ng-include directive?**

The HTML pages can be embedded within an HTML page using the **ng-include** directive.

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* **Q77.**

**How to hide or show a div in Angular js?**

In order to hide/show the div in AngularJS just get rid of display: none, the rest is in the control. If you want to hide it by default then set the value of scope.myvalue to false.

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* **Q78.**

**How to create a service using Factory?**

Creating a service using the module's factory API is one of the most common ways to create a service. We first create an object, add properties to it and return the same object, which can later be injected into the components like service, controller, filter or directive.

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* **Q79.**

**List some inbuilt services in AngularJs ?**

There are 30 inbuilt **services in AngularJs**. Below are few most used services in AngularJs.

* + $location
  + $scope
  + $http
  + $timeout
  + $interval
  + $window

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* **Q80.**

**What are filters in AngularJS ? Can you list some?**

Angualr.JS filters are efficient in modifying the data. With the help of pipe (|) character, they are clubbed into the directive or expression.

|  |  |
| --- | --- |
| **Filters** | **Functions** |
| Uppercase | It used to convert text to upper case text. |
| Lowercase | It used to convert text to lower case text. |
| Currency | It is used to formats a number to a currency format. |
| Order by | It is used to orders the array on the basis of given criteria. |
| Filter | It is used to order the array to a subset of it on the basis of given criteria. |

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* **Q81.**

**List some Cons or disadvantages of using AngularJS?**

Here is the list of cons of AngularJS

* + - **JavaScript support mandatory**

Just be imagine, the devices that access your server but they are disabled for JavaScript. So the users are unable to access into your web apps or website. In the case of a great number of users, AngularJS based web is not so efficient. In spite of this, it is good for plain HTML-based web.

* + - **Greenness with Model View Controller (MVC)**

If you are a developer and wants to do some traditional with almost zilch knowledge of MVC then you are not advised to use the Angular.JS because it will be time-consuming for you. You should hire an expert who has good knowledge of MVC if you are short in time to submit the project

* + - **The dilemma scopes**

If you are fresh in Angular.JS then it will be difficult for you to deal with complex entities such as Quite layered and hierarchically and scopes. Debugging the scope is a believed a very hard task for many programmers.

* + - **Other difficult features**

There are several features of Angular.JS like directives, dependency injection and factories which are hard to use. So, you have to spend a lot of time on it to understand all of them or prefer to hire an expert.

* + - **Time consumption in old devices**

The browser on old computer and mobile are failed or take a little more time to render pages of application and websites designed using the framework. It happens because the browser begins to complete some supplementary tasks like DOM manipulation. But this quibble does not seem in the new devices.

* + - **Difficult to learn**

It is very hard to accustom to the framework. Plus, you may get some additional problems like limited documentation. But Angular.JS continuously make it easier

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* **Q82.**

**Explain DDO in AngularJs?**

DDO Stands for Directive Definition Object. DDO is used while creating a custom directive in AngularJs.

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* **Q83.**

**What is an interceptor in Angular? Why it is used?**

An interceptor is a middleware code in AngularJs where all the $http requests go through. It is attached with $httpProvider service and able to intercept request and response objects. Interceptor Middleware is useful for error handling, authentication and other filters you want to apply on request and response.

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* **Q84.**

**Explain the functionality angular.copy() method?**

It is used to allocating the value of an object into another object however the object value must not be altered.

If you are adding any new property or altering any value of the property then the object noting to the same object will update by applying angular. Copy() method.

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* **Q85.**

**Which filter will be executed one or more times during the each $Digest cycle?**

Can you please answer this?

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