**Ng Descriptive Questions**

**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. What is MVC?**

**M**odel **V**iew **C**ontroller or MVC as it is popularly called, is a software design pattern for developing web applications. A Model View Controller pattern is made up of the following three parts:

**Model** − It is the lowest level of the pattern responsible for maintaining data.

**View** − It is responsible for displaying all or a portion of the data to the user.

**Controller** − It is a software Code that controls the interactions between the Model and the View

**3. Explain what are the key features of AngularJS?**

The key features of AngularJS are-

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

**4. 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.

**5. 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.

**6. 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

**7. What are directives?**

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. Why and when to use directive in AngularJS?**

**Why:** Directives expose core AngularJS functionality such as event handling, form validation, and templates. Use custom directives to apply application features to views.  
**When**: Directives are used throughout an AngularJS application.

**9. Name the data binding directives in AngularJS.**

Data binding directives in AngularJS are-

ng-bind, ng-bind-html, ng-bind-template, ng-model, ng-non-bindable.

**10. Name the template directives in AngularJS.**

Template directives in AngularJS are-

ng-cloak, ng-include, ng-repeat, ng-repeat-start, ng-repeat-end, ng-switch.

**11. Discuss ng-include directive.**

The ng-include directive retrieves a fragment of HTML content from the server, compiles it to process any directives that it might contain, and adds it to the Document Object Model. These fragments are known as partial views.

**12. Discuss novalidate attribute.**

Novalidate attribute defined by the HTML5 specification and tells the browser not to try to validate the form itself, allowing AngularJS to work unhindered.

This attribute is a standard HTML5 feature, and it ensures that only AngularJS is checking the data that the user provides.

**13. Name the validation variables for the form directive.**

The Validation Variables Defined by the Form Directives are-

**$pristine, $dirty, $valid, $invalid, $error**

**14. 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

**a.** Data mining in classical template systems

**b.** Data binding in angular templates

**15. Mention what are the different types of Directive?**

There are four types of directives.

i. Element name directives

ii. Attribute directives

iii. Class directives

iv. Comment directives

**16. What are the styling form that ng-Model adds to CSS classes?**

The Classes Used by AngularJS Validation are-

ng-pristine, ng-dirty, ng-valid, ng-invalid

**17. What is DI (Dependency Injection)?**

Dependency injection simplifies the process of dealing with dependencies—known as resolving a dependency—

between components.

**18. What is filter in AngularJS?**

Filters select a subset of items from an array and return a new array. Filters are used to show filtered items from a list of items based on defined criteria.

**19. What is module and how to create a module?**

Modules are the top-level components for AngularJS applications.

Creating a Module

...

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

...

**20. Define controller and how to create a controller?**

Controllers are created through the controller method provided by the AngularJS Module object. The arguments to the controller method are the name for the new controller and a function that will create the controller. The function is properly known as the constructor. For example, we can use this code to make controller-

**.controller("simpleCtrl", function ($scope) {**

**});**

**21. Where you can apply directives?**

**22. Define factory and worker function in angularjs.**

**23. How to create and apply a filter?**

Filters can be added in AngularJS to format data. Filters can be added to expressions by using the pipe character ‘|’, followed by a filter.

**Example**

<div ng-app="myApp" ng-controller="personCtrl">  
  
<p>The name is {{ lastName | uppercase }}</p>  
  
</div>

**24. Difference between Module.config and Module.run method**