* **What is AngularJS?**

Answer: Angular JS is an open source JavaScript framework that is used to build web applications. It can be freely used, changed and shared by anyone.

It is an excellent framework for building single phase applications and line of business applications.

* **what is MVC?**

Answer: The **Model-View-Controller (MVC)** is an architectural pattern that separates an application into three main logical components: the **model**, the view, and the controller. Each of these components are built to handle specific development aspects of an application. MVC is one of the most frequently used industry-standard web development framework to create scalable and extensible projects.

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

Answer: **The key features of AngularJS**

* Allows us to create a single page application
* Follows MVC pattern
* Predefined form validations
* Supports animation
* Open source
* Cross-browser compliant
* Supports two-way data binding
* Its code is unit testable

OR

The key features of AngularJS are-

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

* **What is $scope in AngularJS?**

Answer: **Scope in AngularJS**. The $**scope** in an **AngularJS** is a built-in object, which contains application data and methods. You can create properties to a $**scope** object inside a controller function and assign a value or function to it. The $**scope** is glue between a controller and view (HTML).

* **What is services in AngularJS?**

Answer: **Angularjs Services** are functions or objects and are **used** to do specific tasks. ... These are also called as singletons, which are the objects that are instantiated only once per application.

**Services** are normally injected using the dependency injection mechanism of **AngularJS**. **AngularJS** provides many inbuilt **services**.

For example, $http, $route, $window, $location, etc.

* **What is AngularJS Expression?**

Answer: Expressions are used to bind application data to HTML. Expressions are written inside double curly braces such as in {{ expression}}. Expressions behave similar to ngbind directives. AngularJS expressions are pure JavaScript expressions and output the data where they are used.

* **What are directives?**

Answer: 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.

* **Why and when to use directive in Angularjs?**

Answer: **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.

* **Name the data binding directives in Angularjs.**

Answer: Data binding directives in AngularJS are-

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

* **Name the template directives in Angularjs.**

Answer: Template directives in AngularJS are-

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

* **Discuss ng-include directive.**

Answer: The AngularJS ng-include directive is used to fetch, compile and include an external HTML fragment. These are added as childnodes of the specified element. The ng-include attribute's value can also be an expression, returning a filename.

* **Discuss novalidate attribute.**

Answer: 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.

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

Answer: The Validation Variables Defined by the Form Directives are-

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

* **What is data binding in AngularJS ?**

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

* Data mining in classical template systems
* Data binding in angular templates
* **Mention what are the different types of Directive?**

Answer: There are four types of directives.

* Element name directives
* Attribute directives
* Class directives
* Comment directives
* **What are the styling form that ng-Model adds to CSS classes ?**

Answer: The Classes Used by AngularJS Validation are-

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

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

Answer: **dependency injection** is a technique whereby one object (or static method) supplies the **dependencies** of another object. A **dependency** is an object that can be used (a service). An **injection** is the passing of a **dependency** to a dependent object (a client) that would use it.

* **What is filter in Angularjs?**

Answer: Filters are used to modify the data. They can be clubbed in expression or directives using pipe (|) character. The following list shows the commonly used filters.

* **uppercase**
* **lowercase**
* **currency**
* **filter**
* **orderby**

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

Answer: Module: A module defines an application. It is a container for the different parts of your application like controller, services, filters, directives etc.

A module is used as a Main() method. Controller always belongs to a module.

Creating module: The angular object's module() method is used to create a module. It is also called AngularJS function angular.module

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

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

Answer: AngularJS controllers are used to control the flow of data of AngularJS application. A controller is defined using ng-controller directive. A controller is a JavaScript object containing attributes/properties and functions. Each controller accepts $scope as a parameter which refers to the application/module that controller is to control.

* **Explain Two-way and One-way data binding in AngularJS?**

Answer:

One-way: The one-way data binding is an approach where a value is taken from the data model and inserted into an HTML element. There is no way to update model from view. It is used in classical template systems. These systems bind data in only one direction.

Two-way: Two-way data binding - It is used to synchronize the data between model and view. It means, any change in model will update the view and vice versa. ng-model directive is used for two-way data binding.

* **Write three event directive with example?**

Answer: Three event directive are

**ngClick:** The ngClick directive allows you to specify custom behavior when an element is clicked. For Example

<div ng-click="expression">

...

</div>

**ngMouseUp:** Specify custom behavior on mouseup event. For example

<div ng-mouseup="expression">

...

</div>

**ngMouseOver:** Specify custom behavior on mouseover event. For example

<div ng-mouseover="expression">

...

</div>

* **What components can be defined within AngularJS modules?**

Answer:

* + - Directive
    - Filter
    - Controller
    - Factory
    - Service
    - Provider
    - Value
    - Config settings and Routes
* **What is the role of ng-app, ng-init and ng-model directives?**

Answer: The main role of these directives is explained as:

**ng-app** - Initialize the angular app.

**ng-init** - Initialize the angular app data.

**ng-model** - Bind the html elements like input, select, text area to angular app model.

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

Answer: The AngularJS "filter" filter is used to select a subset of an array and returns it as a new array. The "filter" filter can only be used on array, and it returns an array containing only the matching items.

**Syntax:**

{{ filter\_expression | filter : expression : comparator : anyPropertyKey}}

.   .

$filter('filter')(array, expression, comparator, anyPropertyKey)