1. Explain the architecture of Angular je? Module Component module Semice Property
Printing
Property
Printing
Pri Template ? module Model value 3.1415 1 Injector Service =

Angular JS follows the Model-Vew-Controller (MVC) architectural pattern to organize the applications structure and functionality.

Modules: Angulae Js applications are divided into smaller, reasolde modules that ancapeulate specific functionality. This allows for better organization and modularity.

components bring together the view, weir, and data ento a reusable building brock for the application.

Templates: define the HTML structure and layout of the application's view. They use derectives, exporessions, and data bording to make the views dynamic.

Directives: Directives are custom HTML elements, attributes or classes that extend here functionality of DOM and allow for the creation of remarks UI components.

Bervices: Services are singleton objects that emapsulate application logie à cambe injected ento components.

allowing for code riuse & testability.

Dependency Virjection. Angular JS uses a DI eystern to namage The westion and elsewere of origins, making more modular of

HTTPlesent: Angular JS pravides a bruitt in HTTP ellent that sluprifies making AJAX requests and haidling responses. terting testable.

Coute: allows for the wation of engle-page application ery managing the applications varigation and slate.

Hete management: can use various state management Jechniques such as two-way data binding to keep the UI en sync with the application's state.

2) How does om Angular application work 1

In Angular application, a module is nothing but a collection of components, derectives, pipes, and services that are typically used in the application.

modules: group components, atrectives, pipes and suries. Root module ("App module") bootstraps - the application.

components: control parts of the UI Root component converts component hierarchy with the DOM.

services: Provide resugable data ex logic. Use the @ Injectable decorator.

Templates combine HTML and Angular markers
Modify HTML elements and connect data to the Dom.

Metodata: Informs Angular how to process a dass.

Duorates classes to configure their behavior.

Data Binding: Facilitéétes real-time communication blu templates and components. Allows communication blu parent and child components.

Directives: Add benavior to elements 9 n templates. Essential for smilding dynamic UI components.

3) what are directives 9 n Angular ?

Directives on Angular Is are special markers (attribute elements, comments or classes) that tell the angular IS compiler to attach a specified behavior to the Don element (or transform It and its children). They are used to extend to TVVI functionality I make it more dynamic.

Type

1. Attribute Directives.

- 2. Structural Directives
- 3. wass. Directives of

4 Element Directives.

4). Explain components, modules and Services 9 in Mynday.
Components: Components are the fundamental Israelding
Islaetes of an angular apprivation. They wondsol a part of the VI. Kay Elements: «Selector: Defines how the component je used in +1TML. & Template. The HTML view controlled by the component. » Class: contoine the business logic for the component. » Styles: Cis styles sperific to the component Modules: are containers for a coherence block of code dedicated to an application amain, a workflow sect. J'closely orelated capabilities. Key Elements: * Mg Module Devorator: Morks à class as an Angulai module 9 provides configuration metadale - n. huposts: Liet of other modules vehose exported classes are needed by components in the module. - * Paroviders: List of services used en this module. s Bootetoop: pain application view called the root component, which host all other app views is displif to const

Services: au classes that handle due bushners hogic and are used to share date à functionality across components.

Keyr Elements: @Injertable Duorator: markes à class as available to be provided à injerted as a dependency.

* Methods à Properties: Define she functionally and data that the service provides.

5) What are some advantages of Angular over Africe frameworks ?

*Two way Derta Prinding - Automatically synchronizes data
by whe model & the view.

*Dependency Injection: nækes tue vode mole modular, nærstamable and testable by managing sunice desependencies.

* Directues: Extends +1TML with outlow attributes ? elemants for degranic content.

* MVW Paddern [model-vew-whatever]
supposets various discon patterns like mve / mvm
making it flexible.

* Bruiltin Surices: Provides various bruiltin services shat emplify common mistak tables.

Designed with testing in mind, support both with testing i end-to-end testing.