**ANGULAR**

**Single Page Application**

A single-page application (SPA) is a website design approach where each new page's content is served not from loading new HTML pages but generated dynamically through JavaScript's ability to manipulate the DOM elements on the existing page itself.

Angular is SPA Framework or platform which is built using HTML and TypeScript.

Architectural Features:-

1. Components

Combination of DATA and LOGIC.

Consists of HTML Template to render DATA using LOGIC onto the web browser.

Every application has a ROOT component followed by different components to render different parts of application onto the browser.

1. HTML Template

HTML Template uses two other cool features

1. Angular Directives – to define logic
2. Data Binding – to bind data with HTML DOM Element
3. Event Binding – button clicks, or when user places mouse over text, etc.
4. Property Binding – bind the HTML input properties to the model in our angular application component.
5. Service

To fetch data from backend.

We can use Dependency Injection in Components to inject a service in the component and component can use the service to fetch the data and render it to the UI.

1. Routing

Navigating from one point to another

1. Versions

2, 4, 5, 6, 7, 8, 9

Angular 2 is a major upgrade over Angular 1.

Later versions are just some minor upgrade over the previous version.

**Installing Angular**

1. Install node
2. In the command line, type npm install –g @angular/cli
3. Install Yarn(this is just like npm(node packaging manager))
4. Install VSCode
5. Install MYSQL Workbench

**Creating a project**

ng new my-app

cd my-app

ng serve -o

**ng new**

The Angular CLI makes it easy to create an application that already works, right out of the box. It already follows our best practices!

**ng generate**

Generate components, routes, services and pipes with a simple command. The CLI will also create simple test shells for all of these.

**ng serve**

Easily test your app locally while developing.