VueJs

VueJs is an open source javascript framework used to develop interactive web user interfaces and single – page applications.

Vuejs is mainly focused on the view part of the application that is called front-end development.

The points to know: how to setup an env., instances, components, properties, bindings, rendering, events, routing, directives, etc.,

What is SPA?

A SPA is a web application or a website that provides users a very fluid, reactive and faster exp., in loading the content.

Features of Vuejs:

Components, templates, reactivity, routing, transitions

Env., setup and creating sample app:

1. Through CDN
2. Through NPM

Cmd: npm install vue

Cmd: npm install –global vue-cli

Creating a Project using Webpack:

Cmd: vue init webpack my-vue-app-using-webpack

To compile & run: **npm run dev**

Cmd: vue create my-first-vue-app-using-npm

To compile & run: **npm run serve**

Declarative Rendering:

v-bind, v-if, v-else-if, v-model, v-on:click, v-bind:title, v-for

Composing with Components:

Instance

Instance LifeCycle Hooks

Before create hook – beforeCreate() – this is a first event or hook that occurs in the creation process.

Created hook – created() – it is used to run after creating the instance.

Before mount hook, - beforeMount() – used to execute just before the initial render happens and after the template or render function have been completed.

Mounted hook – mounted() – is provides the full access to the reactive component, templates, and rendered DOM

Before update hook – beforeUpdate() - just before the data changes on the component and that updates cycle's start.

Updated hook – updated() – just after the data changes

Before destroy hook – beforeDestroy() – is used to execute just before tearing down the instance. This is the last step of the Vue Instace.

Destroyed hook – destroyed() – do.., used to do any last minute clean up

Template:

v-bind:src

Component:

Vue.component('nameoftheComponen', {//options})

Local registration of Components

Dynamic Components

Computed Properties

Watch Properties

Event Handling

<button v-on:click="clickHandler"></button>

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<button @click="clickHandler"></button>
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Types of Events: submit, keyup, drag, error, abort, mousover, mouseout,

Event Handling Methods: click, hover, etc.,

Event Modifiers: provides some event modifiers attribute on v-on attribute. The methods: event.preventDefault(), event.stopPropagation(), inside event handlers.

These modifiers are directive postfixes denoted by a . (dot). There are some list of common modifiers: .once, .prevent, .stop, .enter, .tab, .delete, .esc, .up, .down, etc,

Custom Events:

Data Binding: the data binding is a technique used to bind data sources from the provider and consumer together and sync them at the time of retrieval.

Class & Style Binding

Setup of VueJs App using NPM

Working with Multiple Components

RestApi – axios – Fetching the Data

Form Validation – webpack

Crud Operations + Routing

GraphQL

GraphQL is an open source server – side technology

Used to optimize the RESTful API's.

It is an execution engine & data query language

The things:

1. Implement GraphQL API using Apollo Server
2. Test GraphQL API using GraphiQL
3. Integrate with VueJs, ReactJs, etc.,