

1) Which company invented Vue.js?

- a. Facebook
- b. Google
- c. Oracle
- d. Twitter

2) Which of the following data binding interpolation is also known as "Mustache" syntax?

- a. v-on
- b. v-model
- c. {{}}
- d. []

**Answer:** C is the correct option. The {{}} data binding interpolation is also known as "Mustache" syntax.

3) Which of the following is the correct way to install Vue.js in your project?

- a. We can install Vue.js by using CDN by including <script> tag in HTML file.
- b. We can install Vue.js by using Node Package Manager (NPM).
- c. You can install Vue.js using Bower.
- d. All of the above.

**Answer:** D is the correct option. All of the above are the correct ways to install Vue.js in your project.

---

4) Which of the following is the correct syntax to use for loop in Vue.js?

- a. vFor
- b. v-for
- c. \*v-for
- d. None of the above.

**Answer:** B is the correct option. The "v-for" is the correct syntax to use for loop in Vue.js.

---

5) Which of the following syntax is correct for creating a Vue.js instance?

- a. var text = new object ({//options})
- b. var text = new class ({//options})
- c. var text = new text ({//options})
- d. var text = new Vue({// options })

**Answer:** D is the correct option. The correct syntax for creating instance is var text = new Vue({// options }).

---

6) Which of the following is the advantage of using Vue.js?

- a. Vue.js is very small in size.
- b. The documentation of Vue.js is very easy and comprehensive.
- c. Vue.js is flexible in nature.
- d. All of the above.

**Answer:** D is the correct option. All of the above are the advantages of using vue.js.

7) Which of the following modifiers is very useful for improving the performance of mobile devices?

- a. .directive
- b. .once
- c. .capture
- d. .passive

**Answer:** D is the correct option. The ".passive" modifier is very useful for improving the performance of mobile devices.

8) Which of the following directive is used for two-way binding in Vue.js?

- a. v-on
- b. v-model
- c. no-one
- d. v-bind

**Answer:** B is the correct option. The v-model directive is used for two-way binding in Vue.js.

9) Which of the following directives is used for one-way data binding in Vue.js?

- a. v-on
- b. v-model
- c. no-one
- d. v-bind

**Answer:** D is the correct option. The v-bind directive is used for one-way data binding in Vue.js.

10) Which of the following statements is correct for component props in Vue.js?

- a. Props are used to pass down data to the child components.
- b. Props are custom attributes that you can register on a component.
- c. When a value is passed to a prop attribute, it becomes a property on that component instance.
- d. All of the above.

**Answer:** D is the correct option. All of the above statements are correct for component props in Vue.js.

11) How many ways are there to define a filter in Vue.js?

- a. 1
- b. 2
- c. 3
- d. 4

**Answer:** B is the correct option. There are two ways to define a filter in Vue.js

12) Which of the following is the correct full form of MVVM?

- a. Model-Value-Value Model
- b. Model-View-Value Model
- c. Model-View-View Model
- d. Module-View-View Model

**Answer:** C is the correct option. The correct full form of MVVM is Model-View-View Model.

**13) What is VueX?**

- a.     VueX is a state management pattern and library for the Vue.js application.
- b.     VueX is a command used in Vue.js.
- c.     VueX is a component of Vue.js.
- d.     None of the above.

**Answer:** A is the correct option. VueX is a state management pattern and library for the Vue.js application.

**14) What is the main usage of filters in Vue.js?**

- a.     Filters are used to enhance the presentation of the view layer.
- b.     Filters are also reusable, and you can declare a filter globally and use it on any desirable component.
- c.     Filters facilitate you to format your data at the view level.
- d.     All of the above.

**Answer:** D is the correct option. All of the above is the usage of filters in Vue.js.

**15) How many types of directives are available in Vue.js?**

- a.     2
- b.     3
- c.     4
- d.     5

**Answer:** C is the correct option. There are four types of directives available in Vue.js.

**16) Which of the following event modifiers should we use to perform the click event only for the one time?**

- a.     <a @:click.passive="dotask"></a>
- b.     <a @:click.once="dotask"></a>
- c.     <a @:click.prevent-once="dotask"></a>
- d.     <a @:click.prevent-once="dotask"></a>

**Answer:** B is the correct option.

**17 .Why is Vue.js called a progressive framework?**

- a. Vue.js is called a progressive framework because it follows the latest JavaScript standards.
- b. Vue.js is called a progressive framework because it facilitates us to create Dynamic User Interfaces and single-page applications.
- c. Vue.js is called a progressive framework because it is being changed and developed continually.
- d. All of the above

Correct Answer : **Option (C) : Vue.js is called a progressive framework because it is being changed and developed continually.**

---

**18 .Which of the following are the features available with VueJS?**

- A)Virtual DOM
- B)Data Binding
- C)Event Handling
- D>All of the above

Correct Answer : Option (D) : All of the above

---

Explanation : All of the above are the features available with VueJS.

**19 .To start with VueJS, we need to create the instance of Vue, which is called the?**

- A)root Vue
- B)Vue Instance
- C)root Instance
- D)root Vue Instance

Correct Answer : Option (D) : root Vue Instance

---

Explanation : To start with VueJS, we need to create the instance of Vue, which is called the root Vue Instance.

**20 .\_\_\_\_\_ are one of the important features of VueJS that creates custom elements, which can be reused in HTML.**

- A)Events
- B)Binding
- C)Vue Components
- D)Vue custom properties

Correct Answer : Option (C) : Vue Components

---

Explanation : Vue Components are one of the important features of VueJS that creates custom elements, which can be reused in HTML.

**21 .To bind HTML class, we need to use \_\_\_\_\_.**

- A)v-bind: class
- B)a-bind: class
- C)p-bind: class
- D)d-bind: class

Correct Answer : Option (A) : v-bind: class

---

**Explanation :** To bind HTML class, we need to use v-bind:class.

**22 .which class is used to define the delay, duration, and easing curve for entering in the transition phase?**

- A)v-enter
- B)v-enter-active
- C)v-leave
- D)v-leave-active

**Correct Answer : Option (B) : v-enter-active**

---

**Explanation :** V-enter-active : This class is used to define the delay, duration, and easing curve for entering in the transition phase. This is the active state for entire and the class is available during the entire entering phase.

**23 .Which of the following event modifier should we use to perform the click event only for the one time?**

- A)<a @:click.once="dotask"></a>
- B)<a @:click.passive="dotask"></a>
- C)<a @:click.prevent-once="dotask"></a>
- D)<a @:click.prevent-once="dotask"></a>

**Correct Answer : Option (A) :**

```
<a @:click.once="dotask"></a>
```

**24 .Which of the following is the correct syntax to install Vue.js plug-in?**

- A)install = function () {}
- B)install = function (Vue, options) {}
- C)install = function (Vue, options[]) {}
- D)None of the above.

**Correct Answer : Option (B) : install = function (Vue, options) {}**

25 .The Following code represents the registered component. How can you call the custom component in my template?

```
Vue.component('my-component', {  
  template: 'my own component!'  
})  
  
new Vue({  
  el: '#demo'  
})
```

- A)@my-component
- B)v-my-component
- C)v-bind:my-component
- D)<my-component></my-component>

Correct Answer : Option (D) :

<my-component></my-component>

26 .Which of the following directive is used for one-way data binding in Vue.js?

- A)v-on
- B)no-one
- C)v-model
- D)v-bind

Correct Answer : Option (D) : v-bind

---

Explanation : The v-bind directive is used for one-way data binding in Vue.js.

27 .Which of the following directive is used for two-way binding in Vue.js?

- A)v-on
- B)no-one
- C)v-model
- D)v-bind

Correct Answer : Option (C) : v-model

---

Explanation : The v-model directive is used for two-way binding in Vue.js.

## ABOUT VUE JS

Vue JS is a continuous open-source framework for JavaScript used to improve interactive web communication. It is one of the most widely used frameworks for web development. Vue JS focuses on the viewing layer. It can be easily applied to major pre-development projects without problems.

<a href="#">Initial release:</a>	February 2014
<a href="#">Stable release:</a>	3.0.2 / <a href="#">October 20, 2020</a>
<a href="#">Original author(s):</a>	Evan You
<a href="#">Size:</a>	33.30KB
<a href="#">License:</a>	<a href="#">MIT License</a>
<a href="#">Written in:</a>	<a href="#">JavaScript</a> , <a href="#">TypeScript</a> (Vue 3.0)

=====Descriptive Question and Ans=====

## Vuejs & Laravel Questions

### VUEJS

1.What is Vue.js?

Vue js is progressive javascript script used to create dynamic user interfaces.

Vue js is very easy to learn.In order to work with Vue js you just need to add few dynamic features to a website.You don't need to install any thing to use Vue js just need add Vue js library in your project.

2.List some features of Vue.js.

Vue js comes with following features

- a.Templates
- b.Reactivity
- c.Components
- d.Transitions
- e.Routing

3.What are Directives in VUE.js, List some of them you used?

The concept of directive in Vue js is drastically simpler than that in Angular.

Vue.js directives provides a way to extend HTML with new attributes and tags. Vue.js has a set of built-in directives which offers extended functionality to your applications.You can also write your custom directives in Vue.js .

Below are list of commonly used directives in Vue.js

- a.v-show
- b.v-if
- c.v-model
- d.v-else
- e.v-on

4.List type of Directive are available in Vuejs.

In Vue js following types of directives are available

- a.General Directives
- b.Literal Directives
- c.Empty Directives
- d.Custom Directives

5.How to implement computed properties in Vue.js?

Computed properties are properties in a Vue.js component

that are calculated based on other properties in the component.

They are like methods, but they are cached based on their dependencies, and will only re-evaluate when one of their dependencies changes.

This can be more efficient than calling a method multiple times, especially if the method's result is expensive to compute.

### Laravel Question

1. What is the route in laravel?

Ans: Route is a way of creating a request URL of your application. These URL do not have to map to specific files on a website. The best thing about these URL is that they are both human readable and SEO friendly.

Laravel offers the following route methods: (get,post,put,delete,patch,option)

2. What is a composer ?

Ans: Composer is PHP dependency manager used for installing dependencies of PHP applications. It provides us a nice way to reuse any kind of code.

Rather than all of us reinventing the wheel over and over, we can instead download popular packages.

3. What does PHP compact function do ?

Ans: compact() laravel

PHP compact function takes each key and tries to find a variable with that same name.If the variable is found, them it builds an associative array.

=====+++End=====

## 1) How do you implement two-way data binding in a Vue.js component?

To implement **two-way data binding** in a **Vue.js** component, you can use the "v-model" directive. This directive binds a value to a form input element, and updates the value whenever the input element's value changes.

Here is an example of how you might use the "v-model" directive in a Vue.js component:

```
<template>
  <div>
    <input v-model="message" type="text">
    <p>{{ message }}</p>
  </div>
</template>

<script>
export default {
  data() {
    return {
      message: 'Hello world!'
    }
  }
}
</script>
```

In this example, the value of the "message" data property is bound to the value of the input element using the "v-model" directive. When the user types in the input element, the value of the "message" data property is updated, and this change is reflected in the text displayed by the p element.

## 2) How to implement computed properties in Vue.js?

**Computed properties** are properties in a Vue.js component that are calculated based on other properties in the component. They are like methods, but they are cached based on their dependencies, and will only re-evaluate when one of their dependencies changes. This can be more efficient than calling a method multiple times, especially if the method's result is expensive to compute.

### Example:

```
<template>
<div>
  <p>{{ reversedMessage }}</p>
</div>
</template>

<script>
export default {
  data() {
    return {
      message: 'Hello world!'
    }
  },
  computed: {
    reversedMessage() {
      return this.message.split('').reverse().join('')
    }
  }
}
</script>
```

## 3) What is Vue.js?

**Vue js** is progressive javascript script used to create dynamic user interfaces. Vue js is very easy to learn. In order to work with Vue js you just need to add few dynamic features to a website. You don't need to install any thing to use Vue js just need add Vue js library in your project.

#### 4) List some features of Vue.js.

Vue js comes with following features

- Templates
- Reactivity
- Components
- Transitions
- Routing

#### 5) Explain Life cycle of Vue Instance.

The Life cycle of each Vue instance goes through a series of initialization steps when it is created.

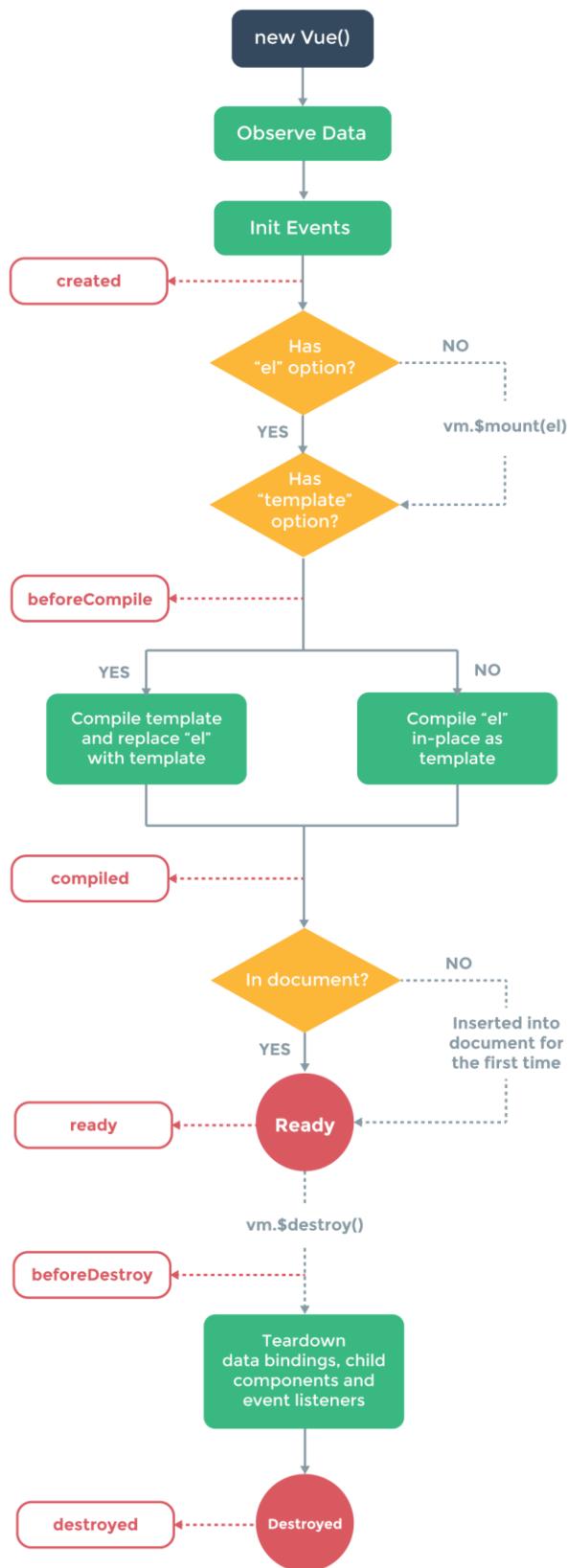
– for example, it needs to set up data observation, compile the template, and create the necessary data bindings. Along the way, it will also invoke some lifecycle hooks, which give us the opportunity to execute custom logic. For example, the created hook is called after the instance is created:

```
new Vue({  
  data: {  
    a: 1  
  },  
  created: function () {  
    // `this` points to the vm instance  
    console.log('a is: ' + this.a)  
  }  
})  
// => "a is: 1"
```

There are also other hooks which will be called at different stages of the instance's lifecycle, for example compiled, ready and destroyed. All lifecycle hooks are called with their this context pointing to the Vue instance invoking it. Some users may have been wondering where the concept of "controllers" lives in the Vue.js world, and the answer is: there are no controllers in Vue.js. Your custom logic for a component would be split among these lifecycle hooks.

#### Lifecycle Diagram

Below diagram shows complete life cycle of Vue Instance



## **6) How to create an instance of Vue js.**

You can create Vue instance with the Vue function:

```
var vm = new Vue({  
    // options  
})
```

## **7) Explain the differences between one-way data flow and two-way data binding?**

In one-way data flow the view(UI) part of application does not updates automatically when data Model is change we need to write some custom code to make it updated every time a data model is changed.

In Vue js **v-bind** is used for one-way data flow or binding.

In two-way data binding the view(UI) part of application automatically updates when data Model is changed.

In Vue.js **v-model** directive is used for two way data binding.

## **8) How to create Two-Way Bindings in Vue.js?**

v-model directive is used to create Two-Way Bindings in Vue js.In Two-Way Bindings data or model is bind with DOM and Dom is binded back to model.

In below example you can see how Two-Way Bindings is implemented.

```
<div id="app">  
    {{message}}  
    <input v-model="message">  
</div>  
<script type="text/javascript">  
    var message = 'Vue.js is rad';  
    new Vue({ el: '#app', data: { message } });  
</script>
```

## 9) What are filters in VUE.js?

In Vue js filters are used to transform the output that are going to rendered on browser. A Vue.js filter is essentially a function that takes a value, processes it, and then returns the processed value. In the markup it is denoted by a single pipe (|) and can be followed by one or more arguments:

```
<element directive="expression | filterId [args...]"></element>
```

In Vue 2.0, there are no built-in filters are availables, however you are free to create your own filters.

## 10) How to create a custom filter in Vue.js?

Vue.filter() method is used to create and register a custom filter in Vue js. Vue.filter() method takes two parameters a filterId that is usnique name to filter that you going to create and a filter function that takes a value as the argument and returns the transformed value.

```
Vue.filter('reverse', function (value) {
  return value.split('').reverse().join('')
})
```

## 11) What are Components in Vue.js? How to register a component inside other component

Vue Components are one of most powerful features of Vue js.In Vue components are custom elements that help you extend basic HTML elements to encapsulate reusable code.

Following is the way to register a Vue component inside other component

```
export default {
  el: '#your-element'
  components: {
    'your-component'
  }
}
```

## 12) What are Directives in VUE.js, List some of them you used?

The concept of directive in Vue.js is drastically simpler than that in Angular. Vue.js directives provides a way to extend HTML with new attributes and tags. Vue.js has a set of built-in directives which offers extended functionality to your applications. You can also write your custom directives in Vue.js.

Below are list of commonly used directives in Vue.js

- v-show
- v-if
- v-model
- v-else
- v-on

### **13) List type of Directive are available in Vuejs.**

In Vue.js following types of directives are available

- General Directives
- Literal Directives
- Empty Directives
- Custom Directives

### **14) What is VUE-resource, how can you install Vue Resource ?**

VUE-resource is a plugin for vue.js that provides services for making web requests and handle responses using a XMLHttpRequest or JSONP

You can install it via yarn or NPM.

```
$ yarn add vue-resource
$ npm install vue-resource
```

### **15) How to create Constants in Vue js.**

To create constant **const** keyword is used. In Vue.js we suggest creating a separate file for defining your constants.

Example:

Creating a Constant in Vue js.

```
export const SITE_URL = 'https://www.onlineinterviewquestions.com';
```

Importing a Constant in Vue js.

```
import {SITE_URL} from './path/to/constants.js';
```

## 16) What is virtual dom in Vuejs?

**Virtual DOM** in Vue is a JavaScript object that represents the Document Object Model (DOM). The application updates the Virtual DOM instead of the DOM directly. So, it minimizes the updating cost of the real DOM as it is computationally expensive. Virtual DOM offers the ability to control the timing at which the Virtual DOM is rendered. Virtual DOM will just maintain the state of the data without re-rendering until you choose it. Virtual DOM also offers the ability to optimize the performance of your web applications by minimizing the number of times the DOM has to be updated.

## 17) Why we need Vue.js mixins?

**Mixins in Vue JS** are a chunk of defined logic that is stored in a particular way. It can be re-used over and over to add functionality to your Vue instances and components. It is important that we need Vue JS because,

1. You can easily adhere to the DRY principle with mixins. It ensures that you do not repeat yourself.
2. You get a lot of flexibility with mixins. Mixin contains options for Vue components.
3. Mixins are safe and they do not affect changes outside their defined scope.
4. Mixins in Vue JS are a great platform for code reusability.

## 18) What is Vuex?

**VueX** is a state management pattern and library for the application using Vue JS. It acts as a centralized store for all the different components in your Vue JS application. It has rules to ensure that the state can be only mutated in a predictable fashion. It can be integrated with the official devtool extension of Vue to provide additional features. Vuex

mainly helps in dealing with shared state management with the cost of more concepts and boilerplate.

## 19) What are filters in Vuejs?

**Filters in Vue JS** helps in applying common text formatting. It is used in two places, mustache interpolations, and v-bind expressions. It mainly filters the data on the DOM level. So you get data that is still intact in the storage but is represented in the custom specified manner. It enhances the presentation of the view layer. The filters are also reusable. You can declare a filter globally and use it on any desirable component. It gives you the power to format your data at the view level.

## 20) How to create a component in Vue js?

**Components in Vue JS** are a single, independent unit of an interface. They have their own state, markup, and style.

A Vue component can be defined in four ways.

- The first is new Vue({ /\*options \*/ }).
- The second is Vue.component('component-name', { /\* options \*/ }).
- The third way is by using the local components.
- The fourth is in the .vue files or Single File Components.

The first two ways are the standard ways to use Vue when building an application that is not a SPA (Single Page Application). The Single File Components are uses in the Single Page Application.

## 21) How to import js file in the Vue component?

There are **two ways to import a JavaScript library to the Vue Component**.

The first is to import a local JavaScript library. Here, you can import the JavaScript library by using the 'import' keyword inside the script tag of your Vue file.

```
import * as mykey from '../assets/js/mykey.js';
```

The second way is to include your external JavaScript file into the mounted hook of your Vue component.

## 22) How to call rest API from Vue js?

We can use various HTTP libraries to call REST Api's from Vue JS. One of the popular libraries is Axios. It simple to use and lightweight. To include it in your project, execute the following command.

```
npm install axios --save
```

### Implementing GET method using Axios in Vue JS

```
axios({ method: "GET", "URL": "https://httpbin.org/ip" }).then(result => {
  this.ip = result.data.origin;
}, error => {
  console.error(error);
});
```