

Final Exam: Interactive Content 2

Q1: Write 5 differences between React.js, Angular.js & Vue.js?

Answer – differences between react.js , angular.js and vue.js are :

1. Angular.js It is the oldest one – it should be the most comprehensive whereas Vue.js It is new, so it should be better than the other ones. Many people love React, and all of them cannot be wrong.
2. Angular is the heaviest of all with 143k. It is followed by React with 43k while Vue.js is the most lightweight – its size is only 23k.
3. Choose Angular when You are about to develop a very large and complex project . Choose React when Your project can accept reusable components . Choose Vue.js when Your project scope is on the small side
4. Angular.js can afford some time for learning TypeScript before the project starts whereas react.js have tight deadlines and vue.js do not have much time to learn a new technology
5. Angular JS support real-time applications like instant messaging or chat apps, whereas Vue JS is best suited for lightweight single-page applications by providing an easy interface.

Q2: Write 5 similarities between React.js, Angular.js & Vue.js?

Answer – five similarities :

1. All of these are lightweight, possess component-based architecture, and expose lifecycle methods.
2. One of the most significant common traits is the use of Virtual DOM
3. Provide reactive & compose-able view components.
4. Stay on track in the center library, with concerns like steering and worldwide state the board took care of by friend libraries.
5. Utilize a virtual DOM.

Q3: What is SCSS?

Answer - Scss is Sassy Cascading Style Sheets

Scss can be separated by a semicolon and run on the same line

SCSS is a preprocessor which lets you use features that aren't a part of the wider CSS standard yet, and provides better workflows for maintaining your stylesheets.

With SCSS preprocessor, you can reduce the amount of times you repeat yourself and ensure you're writing clean, maintainable code for the future.

Scss can take css code and work.

SCSS is fully compatible with the syntax of CSS, while still supporting the full power of Sass.

Q4: Create a responsive table using bootstrap? Write the code for it.

Answer -

```
<div style="overflow-x:auto;">
  <table>
    ...
  </table>
</div>
```

Q5: Difference between framework and library?

Answer - The specialized distinction between a framework and library lies in a term called reversal of control.

When you use a library, you are in charge of the flow of the application. You are choosing when and where to call the library. When you use a framework, the framework is in charge of the flow. It provides some places for you to plug in your code, but it calls the code you plugged in as needed.

Q6: Which HTML5 tag is used for adding audio to the webpage?

Answer - The HTML `<audio>` element is used to embed sound content in documents. It may contain one or more audio sources, represented using the `src` attribute or the `<source>` element: the browser will choose the most suitable one. It can also be the destination for streamed media, using a `MediaStream`.

Q7: Which HTML5 tag is used for adding video to the webpage?

Answer - The HTML Video element (`<video>`) is used to embed a media player which supports video playback into the document. You can use `<video>` for audio content as well, but the `<audio>` element may provide a more appropriate user experience.

Q8: What is HTML5 canvas?

Answer - HTML5 element `<canvas>` gives you a simple and amazing approach to draw illustrations utilizing JavaScript. It tends to be utilized to draw diagrams, make photograph creations or do basic (and not all that straightforward) movements.

Q9: Mentions 6 animation properties exist in CSS3?

Answer –

1. border-radius

2. box-shadow
3. text-shadow
4. text-stroke
5. Multiple Backgrounds
6. text-overflow

Q10: How to integrate font-awesome buttons in HTML5? Write the code for it.

Answer - <!-- Add icon library -->

```
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
```

<!-- Add font awesome icons to buttons -->

```
<p>Icon buttons:</p>
```

```
<button class="btn"><i class="fa fa-home"></i></button>
```

```
<p>Icon buttons with text:</p>
```

```
<button class="btn"><i class="fa fa-home"></i> Home</button>
```