Question based on Lec 3 – JS & NOSQL

Multiple Choice Questions (MCQs)

What is the primary purpose of Frontend development?

A) Managing server logic

B) Creating visual and interactive elements of a website

C) Handling database queries

D) Performing API integrations

Which technology is used to structure a web page?

A) CSS

B) HTML

C) JavaScript

D) SASS

Which of the following is NOT a characteristic of React components?

A) Reusability

B) Nestability

C) Direct DOM manipulation

D) Immutability

What method is called immediately after a React component is mounted?

A) componentWillUnmount

B) componentDidMount

C) shouldComponentUpdate

D) getDerivedStateFromProps

What technology does React use to optimize DOM updates?

A) Virtual DOM

B) Shadow DOM

C) Real DOM

D) IndexedDB

Which of the following features does Sass provide? (Select all that apply)

A) Variables

B) Nesting

C) Functions

D) Directly manipulating the DOM

Which method is used to clean up resources before a React component is unmounted?

A) componentDidUpdate

B) componentWillUnmount

C) componentDidMount

D) getSnapshotBeforeUpdate

Which of the following are benefits of using CSS preprocessors like Sass and LESS? (Select all that apply)

A) Variables

B) Nested rules

C) Automatic DOM updates

D) Mixins

What does the useState Hook do in React?

A) Manages component lifecycle

B) Adds state to functional components

C) Manages routing

D) Fetches data from the API

Which of the following statements about the Document Object Model (DOM) is true?

A) It is a server-side technology.

B) It is an object-oriented representation of the HTML structure.

C) It cannot be manipulated by JavaScript.

D) It is only used in React applications.

Fill in the Blanks

Frontend development is also known as ____client____ development.

The latest version of HTML is known as __HTML5__.

React components use ____props____ to pass data between them.

In React, the ___getSpanshotbeforeUpdate()___ method is called right before the most recent render output is committed to the DOM.

Babel is used to transform modern JavaScript code into code that is compatible with ___older___ browsers.

The method _____ allows you to capture information about the DOM before it is changed.

State is isolated between components, allowing React to keep track of which state belongs to __each__ component.

Using __useReducer__ in React is a way to manage more complex state updates.

Additional Questions

Which tool is known for its fast build times and minimal configuration for React applications?

A) Webpack

B) Parcel

C) Vite

D) Gulp

What is the function of the useEffect Hook in React?

A) To manage state

B) To handle events

C) To perform side effects

D) To render components

Which of the following is a feature of Webpack?

A) Minimal configuration

B) Automatic bundling of assets

C) Lack of community support

D) Simple setup

In React, lifting state up means:

A) Moving state to a child component

B) Moving state to a parent component

C) Making state global

D) Removing state from components

The main goal of using a bundler like Webpack or Parcel is to:

A) Minimize CSS files

B) Combine multiple files into a single file

C) Serve files over a network

D) Optimize database queries

Which of the following are valid types of React components? (Select all that apply)

A) Class components

B) Functional components

C) Pure components

D) Static components

What is the purpose of tree shaking in bundlers?

A) To minify code

B) To remove unused code

C) To increase bundle size

D) To split code into smaller chunks