

Cloud Cave Technologies

ReactJS Syllabus

Satyanna Kodimala
Java full stack and python full stack trainer

HTML

1. HTML basics
2. DocType, Basic tags in HTML
3. Text Formatting Tags
4. Images
5. Hyperlinks
6. List tags
7. Tables
8. Forms
9. Advanced tags
 - a. Horizontal Ruler
 - b. Audio
 - c. Video
 - d. Details and summary
 - e. Data List
 - f. ProgressBar
 - g. Article
10. Semantic tags
 - a. Header
 - b. Nav
 - c. Section
 - d. Footer
 - e. Aside
11. Storages
 - a. Local storages
 - b. Session storages
12. Geo Location
13. Web Workers
14. Drag and Drop
15. Canvas
16. SVG

CSS3 (Cascading Style Sheet)

1. Introduction
2. CSS basic selectors and properties
3. Colors
4. Font styles
5. Text styles
6. Span
7. Background Image
8. Lists
9. Div (width, height, float and clear)
10. Box Model
11. Opacity, display, visibility and overflow Properties
12. Types of style sheets
13. Advanced CSS

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- a. Border radius
 - b. Shadow
 - c. Transformation
 - i. Rotate Transformations
 - ii. Skew Transformation
 - iii. Scale Transformation
 - iv. Translate Transformation
14. Responsive WebDesign
- a. Media Queries
 - b. View Port meta Tag

JavaScript

1. Introduction and syntax
2. Types of javascript and First example
3. Variables, operators, Datatypes
4. Control statements
5. Functions
 - a. String functions
 - b. Date functions
 - c. User defined functions
6. Arrays
7. DOM
 - a. Window properties and functions
 - b. Document properties and functions
 - c. Element properties and functions
8. Validations
 - a. Regular expressions
9. OOPs in javascript
 - a. Creating objects
 - b. Object literals
 - c. Constructor function
 - d. JSON
 - e. Prototype
 - f. Inheritance
10. Advanced JavaScript(ES6)
 - a. Classes
 - b. Constructors
 - c. Static properties and methods
 - d. Method overriding
 - e. Set and Get methods
 - f. Default arguments
 - g. Arrow functions
 - h. Let
 - i. Const
 - j. Rest(...) operator
 - k. Instanceof operator

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- l. Destructuring
- m. Mixins
- n. Multiline string
- o. String interpolation
- p. Reading Elements from Array
 - i. For loop
 - ii. ForEach loop
 - iii. ForOf loop
 - iv. ForIn loop
- q. Error handling
 - i. Error handling try...catch
 - ii. Custom errors, extending Error
- r. Promises,async/await
 - i. Introduction : callbacks
 - ii. Promise
 - iii. Promise API
 - iv. Microtasks
 - v. Async/Await
- s. Modules
 - i. Introduction
 - ii. Export and import
 - iii. Dynamic imports
- 11. Introduction to Events
 - a) Introduction to browser events
 - b) Bubbling and capturing
 - c) Event delegation
 - d) Browser default actions
 - e) Dispatching custom events
- 12. UI Events
 - a) Mouse events
 - b) Moving the mouse: mouseover/out, mouseenter/leave
 - c) Drag'n'Drop with mouse events
 - d) Pointer events
 - e) Keyboard: keydown and keyup
 - f) Scrolling
- 13. Forms, controls
 - a) Form properties and methods
 - b) Focusing: focus/blur
 - c) Events: change, input, cut, copy, paste
 - d) Forms: event and method submit
- 14. Network requests
 - a) Fetch
 - b) FormData
 - c) Fetch: Download progress
 - d) Fetch: Abort
 - e) Fetch: Cross-Origin Requests
 - f) Fetch API

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- g) URL objects
- h) XMLHttpRequest
- i) Resumable file upload
- j) Long polling
- k) WebSocket
- l) Server Sent Events

15. Storing data in the browser
- a) Cookies, document.cookie
 - b) LocalStorage, sessionStorage

ReactJs: Introduction to React

1. SPA: Single Page Application
2. Create app using create-react-app
3. React App Structure and Hello World
4. Running and debugging first react-app
5. JSX
6. Components and reuse
 - a) Functional
 - b) Class
 - c) Pure
7. State and Props
8. Working with css in react
9. Rendering lists
10. Event handling in react
 - a) Understanding React event system
 - b) Understanding Synthetic event
 - c) Passing arguments to event handlers
11. component lifecycle and handling errors
 - a) Understand the lifecycle methods
 - b) Handle errors using error boundaries
12. Working with forms
 - a) Controlled components
 - b) Uncontrolled components
 - c) Understand the significance to default Value prop
 - d) Using react ref prop to get access to DOM element
13. React Routing
14. Context
 - a) What is context
 - b) When to use context
 - c) Create Context
 - d) Context.Provider
 - e) Context.Consumer
 - f) Reading context in class
15. Code-Splitting
 - a) What is code splitting
 - b) React.lazy
 - c) Suspense

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- d) Route-based code splitting
- 16. Hooks
 - a) What are hooks
 - b) Different types of hooks
 - c) Usestate , and useEffect hooks
 - d) Rules of hooks
- 17. React Redux
- 18. Immutable data structures
- 19. Material UI
- 20. Fetch API
- 21. Axios AP