

CUSTOMIZE JAVASCRIPT & REACT

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Duration: 5 days

Java Script programming essentials

- **Data and data types**
- **Logic operators, logic structures, functions**
 - Functions are First-Class Citizens
 - Anonymous Functions
 - Understanding Pass-By-Value in JavaScript
 - Recursive Functions
 - Default Parameters
- **Java Script and HTML, interaction with the DOM**
 - Understanding the Document Object Model in JavaScript
 - **Selecting elements**
 - Select Element By Id
 - Select Elements By Name
 - Select Elements By Tag Name
 - Select Elements By Class Names
 - Select Element By CSS Selectors
 - **Manipulating elements**
 - Create Elements
 - Append Child Nodes
 - Get or Set Text of a Node
 - Get or Set HTML of an Element
 - **Working with Attributes**
 - HTML Attributes & DOM Properties
 - Set Value of an Attribute
 - Get Value of an Attribute
 - Remove an Attribute from Elements
 - Check if an Element has an Attribute
 - Working with Events
- **Working with REST API in Java Script**
 - **PROMISES & ASYNC/AWAIT**
 - Promise Chaining
 - Promise.all ()
 - Promise.race()
 - Promise Error Handling
 - async/await
- **Introduction to mapping libraries: drawing map and charts on a web page**
- **Debugging tools: console**
- **NPM package manager**

Introduction to React Framework

Getting started with React

- Creating a React Project
- Creating a function component
- Component Props
 - Props with basic data
 - Props with Object
 - Props with Array of Object
 - **Labs**
- Event Handling

State management with React Hooks

- useState Hook
 - useState with primitive value
 - useState with Single Object
 - useState with Array of Object
 - **Labs**
- useEffect Hook
- useContext Hook

Working with REST API in React

- Install axios library
- CRUD operation with local json server
- **Labs**

React with Router

- Overview of Routing
- Route Parameter
- Nested Route
- NavLink Component

Compilation tools: Webpack

Drawing maps and charts in React