

Front-end Development With React

#CodingMtlbVMM

VMM
EDUCATION

Best Place to Learn Coding

Online & Offline Classes

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WEB FUNDAMENTALS

- HTML : Structure, Semantic Tags, Forms, Tables , Links , Images & Lists
- CSS: Selectors, Box Model, Positioning, Flexbox & Transitions
- Bootstrap : Grid System, Components & Utility Classes
- JavaScript : Variables, Data Types, Functions, Conditionals, Loops
- DOM & Events : Select Elements, Handle Events, Basic Manipulation
- Advanced : Arrays & Methods , Objects, Spread/Rest

INTRODUCTION TO REACT

- *What is React ?*
- *Features of React*
- *Setup Using Vite*

JSX AND RENDERING

- JSX Syntax and Rules
- Embedding Expressions
- Rendering Elements
- Fragment Usage

COMPONENTS

- Functional vs Class Components
- Props and PropTypes
- Default and Destructured Props

EVENT HANDLING

- Handling Events in JS
- Passing Arguments

CONDITIONAL RENDERING

- If/else in JSX and Ternary Operator
- Short-circuit Evaluation

LISTS AND KEYS

- *Rendering Lists*
- *keys in Lists & Mapping over Arrays*

FORMS AND INPUT HANDLING

- *Handling Using React Hook Form*

HOOKS

- useState & useEffect
- useRef & useContext
- useMemo

REACT ROUTER (V6)

- Setting Up Router
- Routes and Route Parameters
- useNavigate, useParams
- Nested Routes

CONTEXT API

- Creating Context
- useContext Hook
- Context Provider & Consumer

API INTEGRATION

- Fetch API/Axios
- useEffect for Data Fetching
- Handling Loading and Error States

PERFORMANCE OPTIMIZATION

- React.memo
- Lazy Loading Components
- Code Splitting



VERSION CONTROL WITH GIT

Understanding concept of Git & importance of version control , working with core git commands clone, commit, push, pull , branch and merge



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