

What is React?

1. Basics of React
 2. Component-Based Design and Its Advantages
 3. JSX and the `.jsx` File Format
 4. Understanding the Virtual DOM
 5. Bundlers and Vite
 6. Basic React Architecture: Props, State and Entry Point
 7. Creating Your First React Project with Vite
 8. Understanding the Structure of a Vite Project
 9. Hot Reloading and Basics of `package.json`
 10. What is Declarative UI?
 11. Introduction to Node.js and Basic NPM Commands
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Creating UIs with React

1. Functional Components
 2. Exporting and Importing Components
 3. Basics of Props and Data Passing
 4. HTML Naming Standards in React
 5. Introduction to Legacy / Class Components
 6. Passing Children as Props
 7. Conditional Rendering
 8. Common JavaScript Patterns: `map()`, `filter()`, Destructuring, Spread Syntax and Arrow Functions
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Basics of React Hooks

1. Basics of State Management
2. Understanding `useState` and `useContext`
3. Updating UI Based on State
4. Handling `onChange` Actions with State
5. Loading and Unloading Concepts
6. `useEffect` Hook and Its Use Cases
7. Object Referencing with `useRef`
8. Need and Practical Use of `useRef`
9. Introduction to Other Built-in React Hooks
10. Creating and Using Custom Hooks

11. Creating and Importing Non-Hook JavaScript Files

Passing Components

1. Passing Components from Parent to Child
 2. Passing Data and Components Between Components
 3. Passing Information from Child to Parent
 4. Communication Between Sibling Components
 5. Understanding Imperative Handling
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Basics of Event Handling

1. Inline Event Handling
 2. Managing External Events with `useEffect`
 3. Button Click Events
 4. Form Submission Events
 5. Hover Events
 6. Drag Events
 7. Input Default Values
 8. Handling Input Changes with `onChange`
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Basics of Vite

1. What is a Bundler?
 2. Understanding Project Pathnames
 3. Importing Images in React
 4. Best Practices for Using SVGs
 5. Understanding Options in `package.json`
 6. Managing Project Dependencies with NPM
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Basics of Routing

1. Introduction to React Router DOM
2. Types of Routers

3. Creating and Changing Pages
 4. Passing Data Through Routes
 5. Passing Data to a Route
 6. Understanding the Browser History API
 7. Using [Link](#) and [NavLink](#)
 8. Creating 404 / Not Found Routes
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Basics of Working with an API

1. Client-Server Architecture
 2. Introduction to REST APIs
 3. Understanding API Routes
 4. Methods of Sending Data: Path, Body and Query
 5. Working with JSON Data
 6. Fetching Data from External APIs
 7. Displaying API Data in React
 8. Handling Basic API Responses
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Basics of Styling

1. Style Objects and CSS-in-JS Notation
 2. Conditional Style Rendering
 3. Using React with Tailwind CSS
 4. Understanding Utility Classes
 5. Modular CSS
 6. Installing and Importing Pre-Made Components
 7. Creating Responsive React Interfaces
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Create Your Own React Project

Students will apply the concepts learned throughout the course to create a complete React-based project.

Final Project: Recreate a prototype version of a famous website using React, including its major UI sections, navigation, components, responsive layout and interactive elements

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