



React - The Complete Guide (incl Hooks, React Router, Redux)

FEES 40000/- DISCOUNTED FEES 8888/-

1 Getting Started

- 1 Welcome To The Course!
- 2 What is React.js_
- 3 Why React Instead Of _Just JavaScript__
- 4 Building Single-Page Applications (SPAs) with React
- 5 Exploring React.js Alternatives (Angular _ Vue)
- 6 About This Course & Course Outline
- 7 The Two Ways (Paths) Of Taking This Course
- 8 Getting The Most Out Of This Course
- 9 Setting Up The Course Dev Environment (Code Editor)

2 JavaScript Refresher

- 1 Module Introduction
- 2 Understanding "let" and "const"
- 3 Arrow Functions
- 4 Exports and Imports
- 5 Understanding Classes
- 6 Classes, Properties and Methods
- 7 The Spread & Rest Operator
- 8 Destructuring
- 9 Reference and Primitive Types Refresher
- 10 Refreshing Array Functions
- 11 Wrap Up
- 12 Next-Gen JavaScript - Summary

3 React Basics & Working With Components

- 1 Module Introduction
- 2 What Are Components_ And Why Is React All About Them_
- 3 React Code Is Written In A _Declarative Way_!
- 4 Creating a new React Project
- 6 Analyzing a Standard React Project
- 7 Introducing JSX
- 8 How React Works
- 9 Building a First Custom Component
- 10 Writing More Complex JSX Code
- 11 Adding Basic CSS Styling
- 12 Outputting Dynamic Data & Working with Expressions in JSX
- 13 Passing Data via _props_
- 14 Adding _normal_ JavaScript Logic to Components
- 15 Splitting Components Into Multiple Components
- 16 The Concept of _Composition_ (_children props_)
- 17 A First Summary
- 18 A Closer Look At JSX
- 19 Organizing Component Files
- 20 An Alternative Function Syntax

4 React State & Working with Events

- 1 Module Introduction
- 2 Listening to Events & Working with Event Handlers
- 3 How Component Functions Are Executed
- 4 Working with `_State_`
- 5 A Closer Look at the `_useState_` Hook
- 6 Adding Form Inputs
- 7 Listening to User Input
- 8 Working with Multiple States
- 9 Using One State Instead (And What's Better)
- 10 Updating State That Depends On The Previous State
- 11 Handling Form Submission
- 12 Adding Two-Way Binding
- 13 Child-to-Parent Component Communication (Bottom-up)
- 12 Lifting The State Up
- 13 Controlled vs Uncontrolled Components & Stateless vs Stateful Components

5 Rendering Lists & Conditional Content

- 1 Module Introduction
- 2 Rendering Lists of Data
- 3 Using Stateful Lists
- 4 Understanding `_Keys_`
- 5 Outputting Conditional Content
- 6 Adding Conditional Return Statements
- 7 Demo App_ Adding a Chart
- 8 Adding Dynamic Styles
- 9 Wrap Up & Next Steps

6 Styling React Components

- 1 Module Introduction
- 2 Setting Dynamic Inline Styles
- 3 Setting CSS Classes Dynamically
- 4 Introducing Styled Components
- 5 Styled Components & Dynamic Props
- 6 Styled Components & Media Queries
- 7 Using CSS Modules
- 8 Dynamic Styles with CSS Modules

7 Debugging React Apps

- 1 Module Introduction
- 2 Understanding React Error Messages
- 3 Analyzing Code Flow & Warnings
- 4 Working with Breakpoints
- 5 Using the React DevTools

8 Time to Practice_ A Complete Practice Project

- 1 Module Introduction
- 2 Adding a `_User_` Component
- 3 Adding a re-usable `_Card_` Component
- 4 Adding a re-usable `_Button_` Component
- 5 Managing the User Input State
- 6 Adding Validation & Resetting Logic
- 7 Adding a Users List Component
- 8 Managing a List Of Users via State
- 9 Adding The `_ErrorModal_` Component
- 10 Managing the Error State

9 Diving Deeper_ Working with Fragments, Portals & `_Refs_`.

- 1 Module Introduction
- 2 JSX Limitations & Workarounds
- 3 Creating a Wrapper Component

- 4 React Fragments
- 5 Introducing React Portals
- 6 Working with Portals
- 7 Working with `_ref_s`
- 8 Controlled vs Uncontrolled Components

10 Advanced_ Handling Side Effects, Using Reducers & Using the Context API

- 1 Module Introduction
- 2 What are `_Side Effects_` & Introducing `useEffect`
- 3 Using the `useEffect()` Hook
- 4 `useEffect` & Dependencies
- 5 Using the `useEffect` Cleanup Function
- 6 `useEffect` Summary
- 7 Introducing `useReducer` & Reducers In General
- 8 Using the `useReducer()` Hook
- 9 `useReducer` & `useEffect`
- 10 `useReducer` vs `useState` for State Management
- 11 Introducing React Context (Context API)
- 12 Using the React Context API
- 13 Tapping Into Context with the `useContext` Hook
- 14 Making Context Dynamic
- 15 Building & Using a Custom Context Provider Component
- 16 React Context Limitations
- 17 Learning the `_Rules of Hooks_`
- 18 Refactoring an Input Component
- 19 Diving into `_Forward Refs_`

11 Practice Project_ Building a Food Order App

- 1 Module Introduction
- 2 Starting Setup
- 3 Adding a `_Header_` Component
- 4 Adding the `_Cart_` Button Component
- 5 Adding a `_Meals_` Component
- 6 Adding Individual Meal Items & Displaying Them
- 7 Adding a Form
- 8 Working on the `_Shopping Cart_` Component
- 9 Adding a Modal via a React Portal
- 10 Managing Cart & Modal State
- 11 Adding a Cart Context
- 12 Using the Context
- 13 Adding a Cart Reducer
- 14 Working with Refs & Forward Refs
- 15 Outputting Cart Items
- 16 Working on a More Complex Reducer Logic
- 17 Making Items Removable
- 18 Using the `useEffect` Hook

12 A Look Behind The Scenes Of React & Optimization Techniques

- 1 Module Introduction
- 2 How React Really Works
- 3 Component Updates In Action
- 4 A Closer Look At Child Component Re-Evaluation
- 5 Preventing Unnecessary Re-Evaluations with `React.memo()`
- 6 Preventing Function Re-Creation with `useCallback()`
- 7 `useCallback()` and its Dependencies
- 8 A First Summary
- 9 A Closer Look At State & Components
- 10 Understanding State Scheduling & Batching

11 Optimizing with useMemo()

13 An Alternative Way Of Building Components_ Class-based Components

1 Module Introduction

2 What & Why

3 Adding a First Class-based Component

4 Working with State & Events

5 The Component Lifecycle (Class-based Components Only!)

6 Lifecycle Methods In Action

7 Class-based Components & Context

8 Class-based vs Functional Components_ A Summary

9 Introducing Error Boundaries

14 Sending Http Requests (e.g. Connecting to a Database)

1 Module Introduction

2 How To (Not) Connect To A Database

3 Our Starting App & Backend

4 Sending a GET Request

5 Using async _ await

6 Handling Loading & Data States

7 Handling Http Errors

8 Using useEffect() For Requests

9 Preparing The Project For The Next Steps

10 Sending a POST Request

11 Wrap Up

15 Building Custom React Hooks

1 Module Introduction

2 What are _Custom Hooks__

3 Creating a Custom React Hook Function

4 Using Custom Hooks

5 Configuring Custom Hooks

6 Onwards To A More Realistic Example

7 Building a Custom Http Hook

8 Using the Custom Http Hook

9 Adjusting the Custom Hook Logic

10 Using The Custom Hook In More Components

16 Working with Forms & User Input

1 Module Introduction

2 Our Starting Setup

3 What's So Complex About Forms_

4 Dealing With Form Submission & Getting User Input Values

5 Adding Basic Validation

6 Providing Validation Feedback

7 Handling the _was touched_ State

8 React To Lost Focus

9 Refactoring & Deriving States

10 Managing The Overall Form Validity

11 Adding A Custom Input Hook

12 Re-Using The Custom Hook

13 A Challenge For You!

14 Applying Our Hook & Knowledge To A New Form

15 Summary

16 Bonus_ Using useReducer()

17 Practice Project_ Adding Http & Forms To The Food Order App

1 Module Introduction

2 Moving _Meals_ Data To The Backend

3 Fetching Meals via Http

- 4 Handling the Loading State
- 5 Handling Errors
- 6 Adding A Checkout Form
- 7 Reading Form Values
- 8 Adding Form Validation
- 9 Submitting & Sending Cart Data
- 10 Adding Better User Feedback
- 11 Summary

18 Diving into Redux (An Alternative To The Context API)

- 1 Module Introduction
- 2 Another Look At State In React Apps
- 3 Redux vs React Context
- 4 How Redux Works
- 5 Exploring The Core Redux Concepts
- 6 More Redux Basics
- 7 Preparing a new Project
- 8 Creating a Redux Store for React
- 9 Providing the Store
- 10 Using Redux Data in React Components
- 11 Dispatching Actions From Inside Components
- 12 Redux with Class-based Components
- 13 Attaching Payloads to Actions
- 14 Working with Multiple State Properties
- 15 How To Work With Redux State Correctly
- 16 Redux Challenges & Introducing Redux Toolkit
- 17 Adding State Slices
- 18 Connecting Redux Toolkit State.mp4
- 19 Migrating Everything To Redux Toolkit
- 20 Working with Multiple Slices
- 21 Reading & Dispatching From A New Slice
- 22 Splitting Our Code
- 23 Summary

19 Advanced Redux

- 1 Module Introduction
- 2 Redux & Side Effects (and Asynchronous Code)
- 3 Refresher _ Practice_ Part 1_2
- 4 Refresher _ Practice_ Part 2_2
- 5 Redux & Async Code
- 6 Frontend Code vs Backend Code
- 7 Where To Put Our Logic
- 8 Using useEffect with Redux
- 10 Handling Http States & Feedback with Redux
- 11 Using an Action Creator Thunk
- 12 Getting Started with Fetching Data
- 13 Finalizing the Fetching Logic
- 14 Exploring the Redux DevTools
- 15 Summary

20 Building a Multi-Page SPA with React Router

- 1 Module Introduction
- 2 What is Routing & Why_
- 3 Installing React Router
- 4 Defining & Using Routes
- 5 Working with Links
- 6 Using NavLink
- 7 Adding Dynamic Routes with Params

- 8 Extracting Route Params
- 9 Using `_Switch_` and `_exact_` For Configuring Routes
- 10 Working with Nested Routes
- 11 Redirecting The User
- 12 Time to Practice_ Onwards to a New Project
- 13 Practice Redirecting & Extracting Params
- 14 Practicing Nested Routes
- 15 Adding a Layout Wrapper Component
- 16 Adding Dummy Data & More Content
- 17 Outputting Data on the `_Details_` Page
- 18 Adding a `_Not Found_` Page
- 19 Implementing Programmatic (Imperative) Navigation
- 20 Preventing Possibly Unwanted Route Transitions with the `_Prompt_` Component
- 21 Working with Query Parameters
- 22 Getting Creative With Nested Routes
- 23 Writing More Flexible Routing Code
- 24 Sending & Getting Quote Data via Http
- 25 Adding the `_Comments_` Features

21 Deploying React Apps

- 1 Module Introduction
- 2 Deployment Steps
- 3 Adding Lazy Loading
- 4 Building The Code For Production
- 5 Getting Started With Deployment (Uploading Files)
- 6 Exploring Routing Issues & Finishing Deployment

22 A (Pretty Deep Dive) Introduction to Next.js

- 1 Module Introduction
- 2 What is NextJS_
- 3 Key Feature 1_ Built-in Server-side Rendering (Improved SEO!)
- 4 Key Feature 2_ Simplified Routing with File-based Routing
- 5 Key Feature 3_ Build Fullstack Apps
- 6 Creating a New Next.js Project & App
- 7 Analyzing the Created Project
- 8 Adding First Pages
- 9 Adding Nested Paths & Pages (Nested Routes)
- 10 Creating Dynamic Pages (with Parameters)
- 11 Extracting Dynamic Parameter Values
- 12 Linking Between Pages
- 13 Onwards to a bigger Project!
- 14 Preparing the Project Pages
- 15 Outputting a List of Meetups
- 16 Adding the New Meetup Form
- 17 The `__app.js_` File & Layout Wrapper
- 18 Using Programmatic (Imperative) Navigation
- 19 Adding Custom Components & CSS Modules
- 20 How Pre-rendering Works & Which Problem We Face
- 21 Data Fetching for Static Pages
- 22 More on Static Site Generation (SSG)
- 23 Exploring Server-side Rendering (SSR) with `_getServerSideProps_`
- 24 Working with Params for SSG Data Fetching
- 25 Preparing Paths with `_getStaticPaths_` & Working With Fallback Pages
- 26 Introducing API Routes
- 27 Working with MongoDB
- 28 Sending Http Requests To Our API Routes
- 29 Getting Data From The Database

- 30 Getting Meetup Details Data & Preparing Pages
- 31 Adding `_head_` Metadata
- 32 Deploying Next.js Projects
- 33 Using Fallback Pages & Re-deploying
- 34 Summary

23 Optional_ React Summary & Core Feature Walkthrough

- 1 Module Introduction
- 2 What Is React_
- 3 Why React_
- 4 Building SPAs (Single Page Applications)
- 5 React Alternatives
- 6 Creating a React Project
- 7 Setting Up A Code Editor
- 8 Diving Into The Created Project
- 9 How React Works & Understanding Components
- 10 More Component Work & Styling with CSS Classes
- 11 Building & Re-Using Another Component
- 12 Working with `_props_` & Dynamic Content
- 13 Handling Events
- 14 Adding More Components
- 15 Introducing State
- 16 Working with `_Event Props_` (Passing Function As Props)
- 17 Adding Routing
- 18 Adding Links & Navigation
- 19 Styling with CSS Modules
- 20 Outputting Lists of Data
- 21 Adding More React Components
- 22 Building Wrapper Components with `props.children`
- 23 Adding a Form
- 24 Getting User Input & Handling Form Submission
- 25 Preparing the App for Http
- 26 Sending a POST Request
- 27 Navigating Programmatically
- 28 Getting Started with Fetching Data
- 29 Using the `useEffect()` Hook
- 30 Introducing React Context
- 31 Context Logic & Different Ways Of Updating State
- 32 Using Context In Components
- 33 More Context Usage
- 34 Summary

24 Course Roundup

- 1 What Now_ Next Steps You Could Take!
- 2 Explore The React Ecosystem!
- 3 Finishing Thoughts