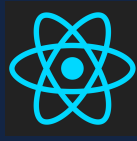


2024

Modern Web Frontend with React



OVERVIEW

The Modern Web Frontend with React (Next.js - App Router - Typescript) course is a learning experience focused on the basics of developing web applications using ReactJS, a JavaScript library used for building user interfaces. Participants will learn about the React structure, component creation, state management, API integration, and routing in web applications.



Latest training session photo

OBJECTIVES

- To provide participants with an understanding of the basics of ReactJS and web application development using React.
- To empower participants to create and manage various components in web applications using React.
- To enable participants to fetch data from APIs and manage the state of the application in the React framework.

WHO SHOULD ATTEND?

- Software developers looking to learn about ReactJS and web application development.
- Developers with experience in website development who seek to understand the usage of ReactJS.
- Individuals interested in learning how to create efficient web applications using ReactJS.

PREREQUISITES

- Participants in the course should have basic knowledge of programming with JavaScript.
- Participants in the course should also have fundamental knowledge of web application development.
- Participants should have a basic understanding of HTML, CSS, and JavaScript to better grasp the content.
- Preparation of necessary development tools such as Node.js and npm (Node Package Manager) for building and managing React projects.
- Ability to use Command Line Interface (CLI) for creating React projects and managing dependencies using npm.
- A computer equipped with programming tools such as a Text Editor or Integrated Development Environment (IDE) suitable for React development.
- Enthusiasm for learning and collaborating with others during the course. Working with team members helps participants gain valuable experience through knowledge exchange and collaboration.

ALL PARTICIPANTS WILL RECEIVE

- Training manuals/documentation.
- Lunch and refreshments.
- Certification upon completion of the Modern Web Frontend with React (Next.js - App Router - Typescript) course.
- Excellent care and attention from instructors and staff.
- Unlimited attendance to the Modern Web Frontend with React (Next.js - App Router - Typescript) (limited to 5 repeat attendees per training session; if you wish to attend the workshop again, please contact our Facebook Page, Line, Email, or other channels to reserve your seat).

- If you are unable to attend the training session this time, you can reschedule your participation according to the training schedule.

OUTLINE

- History of Web Frontend Development - The evolution of web application development before the separation of Backend and Frontend.
- Pros and Cons - Advantages and disadvantages of developing web applications with separated Backend and Frontend.
- System Architecture Overview - An overview of current web application design with Backend and Frontend separation, including case studies.
- ECMAScript and TypeScript - Modern JavaScript writing and fundamentals of TypeScript.
- What is React? And why Next.js? - Introduction to React and React-powered frameworks.
- Workshop 1 - Creating a Next.js app.
- Project Structure - Introduction to the basic structure of Next.js.
- HTML and JSX - What is JSX? Differences and precautions between HTML tags and JSX.
- Component Concept - Explanation of functions and various necessary roles in developing web applications with React, creating components to separate frequently used parts, component exporting and importing, passing values to components (Component Props).
- Workshop 2 - My First Component.
- Tailwind CSS - Introduction to basic usage of Tailwind CSS.
- Workshop 3 - My Home Page.
- State: A Component's Memory - Explanation of useState function and basic usage.
- Workshop 4 - Carousel banner.
- Reacting to Input with State - Using State with Input.
- Workshop 5 - Search box.
- Sharing State Between Components - Explanation of using State with other components.
- Workshop 6 - Search results.
- Next.js Routing - Explanation of creating Route Paths in various formats, Page and Layout structures, page navigation (Linking and Navigating).
- Workshop 7 - New search page.
- Workshop 8 - Products and Details.
- Server Components and Client Components - Explanation of differences and usage of Server Components and Client Components, along with case studies.
- Next.js Data Fetching - Explanation of API calls, creating and using Server Actions and Mutations, using formData and useFormStatus.

- Workshop 9 - Register.
- Authentication Flow - Explanation of the structure and principles of Authentication systems.
- Workshop 10 - Login.
- Passing Data Deeply with Context - Explanation of principles, necessity, and management of complex data, along with case studies.
- Workshop 11 - My Profile.
- Error Handling and Middleware - Explanation of Error Handling principles in the Next.js framework and Middleware operations, along with case studies.
- Workshop 12 - Redirect when not logged in.
- Scaling Up with Reducer and Context - Explanation of using Reducer and State Action with Context, along with case studies.
- Workshop 13 - Add products to cart.
- Synchronizing with Effects - Explanation of useEffect function and its usage in various formats.
- Workshop 14 - Checkout!
- Workshop 15 - Order History.
- Environment Variables and Deploying - Explanation of Environment Variables usage and deployment in various formats.
- Workshop 16 - Hello World!
-

CONTACT INFORMATION

www.dkscenter.com | sales@dkscenter.com