

Next Js Course Content

Advanced React Js Course Content (Day 1 and 2)

- Context API
- React Context
- High Order components
- Advance Hooks
 1. Use Context
 2. Use Reducer
 3. Use Ref
 4. Use Memo
 5. Use Callback
 6. Custom Hooks
- Error boundaries
- Performance Optimization
- Advanced State Management
 1. React Query
 2. React Saga
 - React with Redux--
what is redux
Principles of Redux
 1. Single Source of Truth
 2. State Is Read-Only
 3. Changes are Made with Pure Functions

Core Concepts like state, store, reducers and actions
Refactoring with React-Redux-Toolkit library
Async Actions with Middleware and Thunks
Redux-saga
- Render Props (Sharing Code b/w react components)
- React Portals
- **React 18 features** - Server Rendering with Suspense on the server

Day 3

- Next.js Overview
- Installation
- Project Structure
- Routing
 - Index Routes
 - Routing with pages
 - Nested Routes
 - Dynamic Routes
 - Nested Dynamic Routes
 - Catch-All Routes
 - Optional Catch-All Routes
 - Link Component
 - Imperative Routing
 - Custom Error Page 404 & 500
 - Shallow Routing

- Rendering
 - Rendering Overview
 - Client-Side Rendering - CSR
 - Pre-rendering Overview
 - Rendering and data fetching in Next.js
 - Static Site Generation - SSG
 - SSG without Data
 - SSG with Data – getStaticProps
 - Build Benchmark
 - Link-prefetching
 - SSG with dynamic paths - getStaticPaths
 - getStaticPaths fallback: false
 - getStaticPaths fallback: true
 - Fallback Page
 - getStaticPaths fallback: blocking
 - Client-Side data fetching
 - SWR hooks for client-side data fetching
- API Routes
 - API Routes Overview
 - API GET request
 - API POST request
 - Dynamic API Routes
 - API DELETE request
 - Catch ALL API Routes
 - Optional Catch ALL API Routes
- Styling
- App Layout
- next/head
- next/image
- Static HTML Export
- Typescript
- Redirects
- Environment Variables

Day 4

- Edge Runtime
- Middleware
- Edge API Routes
- Preview Mode
- On-Demand ISR
- Internationalized Routing
- Script Component - next/script
- Authentication
- CI/CD

Day 5

Next.js 13 features –

Features Overview

The new app directory and React Server Components

Components (Link, Image, Font, Script, Lazy Loading etc.)

File Conventions (Layout, Page, Loading, Error, Head, Not Found etc.)

Server component functions

Client component hooks

Integration with Material UI

Segment Config options