

NEXT JS AND REACT

By Dr. Vishwanath Rao

Day 1

Introduction

- * Why Next.js?
- * Fundamentals of Next
- * Zero-Config approach
- * Universal JavaScript (Isomorphic)
- * Server-side rendering
- * Code splitting
- * Next vs. Create React App vs. Gatsby

React Overview

- * Classes vs Functional Components
- * Props & State
- * React Hooks (useState & useEffect)
- * ES6
- * JSX

Developing Locally

- * Installing Nextjs
- * Running locally
- * Linting
- * Formatting

Navigating Between Pages

- * Link (client-side routing)
- * withRouter
- * getInitialProps
- * Retrieving data from URLs

Styling

- * CSS (Importing & Using)
- * Sass
- * CSS-in-JS (Custom _app.js)
- * Styled-Components
- * Responsive + Mobile-First Design

Day 2

Fetching Data

- * Custom Server
- * Node.js & API Routes
- * GraphQL
- * Hasura

Managing Assets and SEO

- * Static Assets
- * Public Files
- * Image Compression / Optimization
- * Custom _document.js
- * Open Graph (OG) tags

Day 3

Building A Blog With MDX

- * MDX vs CMS
- * Initial Setup
- * Managing Posts
- * Building Forms (StaticKit)
- * Using a Component Library (Theme UI)

Authentication

- * What is a JWT?

- * Auth0

- * Firebase Auth

- * Login & Signup Pages

Testing & Error Handling

- * Unit test vs Integration test

- * Jest Snapshot Testing

- * React Testing Library

- * Sentry Plugin

- * Custom Error Page (_error.js)

State Management & More

- * Redux

- * React Context

- * Adding TypeScript

- * Dynamic Imports

Exporting & Deployment

- * Static Pre-Rendering

- * Serverless Functions

- * Zeit Now

- * Netlify