

Next JS COURSE CONTENT

Chapter 1: Introduction to Next.js

- What is Next.js?
- Why choose Next.js for modern web development?
- Next.js ecosystem overview
- Key differences between React and Next.js
- Installing Next.js using Create Next App

Chapter 2: Pages, Routing & Navigation

- Understanding Pages
 - Creating pages with the Pages directory
 - App Router vs Pages Router (Next.js 13+)
- Routing
 - Dynamic routes
 - Catch-all routes
 - Nested routing
- Navigation
 - Using Link and useRouter
 - Programmatic navigation

Chapter 3: Components, Props & Layouts

- React Components Recap
- Props and State in Next.js
- Creating Reusable Components
- Layout Implementation
- Using Shared Layouts
- _app.js and custom App

Chapter 4: Data Fetching in Next.js

- Fetching Data
- getStaticProps
- getServerSideProps
- Incremental Static Regeneration (ISR)
- Client-side data fetching with SWR or React Query

Chapter 5: API Routes and Backend Integration

- Creating API Routes
- Setting up API endpoints in Next.js
- Handling requests and responses
- Connecting with Databases
- Integrating with MongoDB or MySQL
- Using Prisma ORM or Mongoose

Chapter 6: Authentication & Authorization

- Implementing Authentication
- JWT-based auth
- NextAuth.js integration
- Role-based Access Control

Chapter 7: Deployment & Optimization

- Deploying Next.js Apps
- Vercel Deployment
- Custom Hosting (Netlify, DigitalOcean, etc.)
- Performance Tuning
- Code splitting & lazy loading
- Image optimization

Chapter 8: Advanced Topics in Next.js

- Building serverless functions in Next.js
- Optimizing performance in Next.js
- Using advanced features of Next.js
- Best practices for developing with Next.js

