

Complete NextJS Developer: Zero to Mastery

Course Guide + Code

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Github Repositories:

- [Github Repo for Discover Videos](#) (NextFlix)
- [Github Repo for Discover Coffee Stores](#) (Coffee Connoisseur)

Apps we will deploy:

- <https://discovery-coffee-stores.vercel.app/>
- <https://discover-coffee-stores.netlify.app/>
- <https://discover-videos.vercel.app/>

Master project #1: Build your first Next.js app | Coffee Connoisseur

Create a Next.js app: Zero Config

- [NPX Node.js Package Runner](#)
- [Yarn Package Manager](#)
- [NPM](#)
- [Node.js Download](#)
- [Next.js Docs Getting Started](#)

_app.js Solution with Footer

- [Footer MDN](#)

What is Fast Refresh?

- [Fast Refresh](#)

What are CSS modules?

- [CSS Modules](#)

App background

- <https://meshgradient.com/>
- [Unique Mesh Gradient Used](#)

Mobile First Development & Banner Component Styling

- <https://css-tricks.com/how-to-develop-and-test-a-mobile-first-design-in-2021/>
- [CSS Variables](#)

Next.js Head Component

- [Next Head](#)
- [Head MetaData](#)

Master project #1: Routing with Next.js | Coffee Connoisseur

Routing in Next.js

- <https://nextjs.org/docs/routing/introduction>

- https://developer.mozilla.org/en-US/docs/Web/API/History_API
- <https://reactrouter.com/>

What is Dynamic Routing

- <https://nextjs.org/docs/routing/dynamic-routes>

Add route using Link Component

- <https://nextjs.org/docs/api-reference/next/link>
- <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/a>

Master Project #1: Styling in Next.js

Next.js Image component

- <https://nextjs.org/docs/api-reference/next/image>
- <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/img>

Setup Fonts

- <https://fonts.google.com/specimen/IBM+Plex+Sans?query=ibm+plex+sans>

Load Fonts on the page

- <https://nextjs.org/docs/basic-features/font-optimization>

Document in Next.js

- <https://nextjs.org/docs/advanced-features/custom-document>

Hydration, SEO and Different Rendering Techniques in Next.js

Plain React vs Next.js app

- CodeSandbox Next.js App:
<https://codesandbox.io/s/nextjs-app-nostalgic-northcutt-p9vkz>
- CodeSandbox React App:
<https://codesandbox.io/s/reactapp-goofy-dijkstra-luy9k-luy9k>

How Pre-rendering helps with Performance

- <https://web.dev/content-delivery-networks/>

Client Side Rendering (CSR) in Next.js

- <https://nextjs.org/docs/basic-features/data-fetching#fetching-data-on-the-client-side>

Project #1: Static Coffee Store Pages

Card Component Styling

- <https://hype4.academy/tools/glassmorphism-generator>
- <https://github.com/kulkarniankita/discovery-coffee-stores/blob/main/components/card.module.css>
- <https://github.com/JedWatson/classnames>

Grid Layout For Card Component

- <https://github.com/kulkarniankita/discovery-coffee-stores/blob/main/styles/Home.module.css>
- https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Grid_Layout

Next.js: next.config.js Use Unsplash Image

- <https://nextjs.org/docs/api-reference/next.config.js/introduction>

Default Pre-rendering in Next.js

- <https://nextjs.org/docs/basic-features/data-fetching#getstaticprops-static-generation>

Implement Static Site Generation (SSG)

- <https://nextjs.org/docs/basic-features/data-fetching#getstaticprops-static-generation>

Characteristics of Get Static Props in Next.js

- <https://next-code-elimination.vercel.app/>

Get Static Paths in Next.js

- <https://nextjs.org/docs/basic-features/data-fetching#getstaticpaths-static-generation>

Fallback: true

- <https://nextjs.org/docs/basic-features/data-fetching#fallback-true>

Coffee Store Page Styling

- <https://github.com/kulkarniankita/discovery-coffee-stores/blob/main/styles/coffee-store.module.css>
- <https://fonts.google.com/icons>

Setup Foursquare Account

- <https://developer.foursquare.com/>
- <https://developer.foursquare.com/docs/places-api-getting-started>
- V2: <https://developer.foursquare.com/reference/rate-limits-v2>

- Latest Version: <https://developer.foursquare.com/reference/rate-limits>

Foursquare Places API Playground

- V2: <https://developer.foursquare.com/reference/v2-venues-search>
- Latest Version: <https://developer.foursquare.com/reference/places-nearby>
- https://developer.mozilla.org/en-US/docs/Web/API/Fetch_API
- <https://developer.foursquare.com/reference/versioning>
- V2: <https://developer.foursquare.com/reference/authentication-v2>

Foursquare Places API

- V2: <https://developer.foursquare.com/reference/v2-venues-search>
- Latest Version: <https://developer.foursquare.com/reference/places-nearby>

Fetch API Async Await

- https://developer.mozilla.org/en-US/docs/Web/API/Fetch_API

Environment Variables in Next.js

- <https://nextjs.org/docs/basic-features/environment-variables>

Setup Unsplash API

- <https://unsplash.com/>

Invoke Unsplash API for Coffee Store Images

- <https://unsplash.com/developers>
- <https://unsplash.com/documentation#search-photos>

Update Coffee Store Library with Images

- <https://github.com/unsplash/unsplash-js>

Project #1: Coffee Stores by Location

Geolocation API Docs

- https://developer.mozilla.org/en-US/docs/Web/API/Geolocation_API

Using React Hooks

- <https://reactjs.org/docs/hooks-intro.html>

Client Side Rendering (CSR) Coffee Stores

- <https://nextjs.org/docs/basic-features/environment-variables#exposing-environment-variables-to-the-browser>

Use React Context and Why to Use Context?

- <https://reactjs.org/docs/context.html>

Create Store Reducer in Context

- <https://reactjs.org/docs/hooks-reference.html#usereducer>

Project #1: Serverless Functions

What are API's?

- <https://nextjs.org/docs/api-routes/introduction>

Hello World API route

- <https://nodejs.org/api/http.html#class-httpserverresponse>
- <https://nodejs.org/api/http.html#class-httpincomingmessage>

Create a Serverless Function for Getting Coffee Stores

- <https://vercel.com/docs/runtimes#official-runtimes/node-js>

Serverless Functions inside Get Static Props

- <https://nextjs.org/docs/basic-features/data-fetching#write-server-side-code-directly>

Project #1: Data Storage Using Airtable

What is Airtable

- <https://airtable.com/>

Airtable Library

- <https://github.com/airtable/airtable.js/>
- <https://airtable.com/api>

Basic Coffee Store API / Serverless function

- Postman: <https://www.postman.com/downloads/>

API Error Handling

- <https://developer.mozilla.org/en-US/docs/Web/HTTP/Status>
- https://en.wikipedia.org/wiki/List_of_HTTP_status_codes

Project #1: SWR with Client Side Rendering

What is SWR? (State While Revalidate)

- <https://swr.vercel.app/>

SWR Docs Fetch API

- <https://swr.vercel.app/docs/data-fetching>

Project #1: Deployment and Build Optimization

Running Your Application Next Build

- <https://nextjs.org/docs/deployment>

Setting up Github Repository

- <https://github.com/>

Deployment to Vercel

- <https://nextjs.org/docs/deployment>
- <https://vercel.com/dashboard>

What is Netlify?

- <https://www.netlify.com/>
- <https://www.netlify.com/with/nextjs>

Netlify Deployment

- <https://docs.netlify.com/configure-builds/common-configurations/next-js/>

Lighthouse Performance

- <https://web.dev/measure/>

Master Project: Project Setup | Netflix with Next.js

Setting Up Our Master Project

- <https://nextjs.org/docs/getting-started>

Setup Fonts

- <https://fonts.google.com/specimen/Roboto+Slab?query=roboto+slab>
- <https://nextjs.org/docs/advanced-features/custom-document>

Add Font to _Document

- <https://nextjs.org/docs/advanced-features/custom-document>

Global App Styling

- <https://github.com/kulkarniankita/discover-videos/blob/main/styles/globals.css>

Master Project: Netflix Home Page and Video

Banner Component Structure

- <https://developer.mozilla.org/en-US/docs/Web/CSS/background-image>

Banner Component Button With Font

- <https://fonts.google.com/specimen/Roboto+Slab>

Icons with Google Fonts

- <https://fonts.google.com/icons>
- <https://nextjs.org/docs/api-reference/next/image>

NavBar Component Styling

- <https://github.com/kulkarniankita/discover-videos/blob/main/components/nav/navbar.module.css>

NavBar Router

- <https://nextjs.org/docs/api-reference/next/router>

NavBar Logo Icons

- <https://fonts.google.com/icons?icon.query=expand+more>

Card Component Structure

- <https://nextjs.org/docs/api-reference/next/image>

Card Component Size

- <https://github.com/kulkarniankita/discover-videos/blob/main/components/card/card.module.css>

Card Component Image Error

- <https://unsplash.com/photos/CiUR8zISX60>

Framer Motion with Card

- <https://www.framer.com/docs/animation/>

Implement Framer Motion with Card Component

- <https://github.com/JedWatson/classnames>
- <https://www.framer.com/docs/gestures/#hover>

Section Cards Styling

- <https://github.com/kulkarniankita/discover-videos/blob/main/components/card/section-cards.module.css>

Card Scaling Feature

- <https://github.com/kulkarniankita/discover-videos/blob/main/components/card/section-cards.module.css>

Youtube API Overview

- <https://developers.google.com/youtube>
- <https://developers.google.com/youtube/v3/docs/search/list?hl=en>

Implement Youtube Search API

- <https://github.com/kulkarniankita/discover-videos/blob/main/data/videos.json>
- <https://developers.google.com/youtube/v3/docs/search/list?hl=en>

Data Fetching Technique: Server Side Rendering

- <https://nextjs.org/docs/basic-features/pages#server-side-rendering>

Serverside Rendering (SSR) Rules in Next.js

- <https://nextjs.org/docs/basic-features/pages#server-side-rendering>

Youtube API: Google Console Project

- <https://developers.google.com/youtube/v3/getting-started>
- <https://nextjs.org/docs/basic-features/environment-variables>

Error Handling for Video Library

- <https://developers.google.com/youtube/v3/docs/search/list?hl=en#errors>

Popular Videos API Docs

- <https://developers.google.com/youtube/v3/docs/videos/list>

Implement Popular Videos

- <https://github.com/kulkarniankita/discover-videos/blob/main/styles/Home.module.css#L5-L7>

Master Project: Authentication with Magic | Netflix with Next.js

What is Passwordless Authentication?

- <https://magic.link/>
- <https://magic.link/docs/introduction/what-is-magic#why-passwordless>
- <https://haveibeenpwned.com/>

Sign-in Header Component

- <https://github.com/kulkarniankita/discover-videos/blob/main/styles/Login.module.css>

Sign-in Page Styling

- <https://github.com/kulkarniankita/discover-videos/blob/main/styles/Login.module.css>

What is Magic Links?

- <https://magic.link/docs/introduction/decentralized-id>

Setup Magic Account

- <https://magic.link/docs/home>
- <https://magic.link/docs/login-methods/email/integration/web>
- <https://magic.link/docs/api-reference/client-side-sdks/web>

Install Magic in App

- <https://magic.link/docs/login-methods/email/integration/web>

Magic SDK (continued)

- <https://nextjs.org/docs/basic-features/environment-variables#exposing-environment-variables-to-the-browser>

Magic Docs For Login

- <https://magic.link/docs/api-reference/client-side-sdks/web>

Magic Implementation

- <https://magic.link/docs/api-reference/client-side-sdks/web#loginwithmagiclink>

Magic SDK Storage and Routing

- https://developer.mozilla.org/en-US/docs/Web/API/IndexedDB_API

Routing Delay with Login

- <https://nextjs.org/docs/api-reference/next/router#routerevents>

SignOut a User

- <https://nextjs.org/docs/api-reference/next/link#if-the-child-is-a-custom-component-that-wraps-an-a-tag>

Loading Component

- <https://projects.lukehaas.me/css-loaders/>

Master Project: Incremental Static Regeneration | Netflix with Next.js

Create Dynamic Route: Video Id Page

- <https://nextjs.org/docs/routing/dynamic-routes>
- <https://nextjs.org/docs/api-reference/next/link#if-the-route-has-dynamic-segments>

Connect Banner Component

- <https://nextjs.org/docs/api-reference/next/router#userouter>

React Modal Docs

- <https://www.npmjs.com/package/react-modal>
- <https://reactcommunity.org/react-modal/accessibility/>
- <https://reactcommunity.org/react-modal/>

Modal Component Styles

- <https://github.com/kulkarniankita/discover-videos/blob/main/styles/Video.module.css>

Implement Youtube API Player & Docs

- https://developers.google.com/youtube/player_parameters#Parameters

What is Incremental Static Regeneration?

- <https://nextjs.org/docs/basic-features/data-fetching#incremental-static-regeneration>

YouTube Quota Limit: Test Data

- <https://developers.google.com/youtube/v3/getting-started#quota>

Master Project: Hasura GraphQL | Netflix with Next.js

Why GraphQL

- <https://developers.google.com/youtube/v3/docs/search/list>

What is GraphQL

- <https://graphql.org/>

GraphQL Example

- <https://api.spacex.land/graphql/>

GraphQL Query vs Mutation

- <https://graphql.org/learn/queries/>

What is Hasura

- <https://hasura.io/>

Hasura Create PostGres DB

- <https://hasura.io/pricing/>

Hasura DB Architecture

- <https://magic.link/docs/api-reference/client-side-sdks/web#getmetadata>

Query Live Hasura Server with Environment Variables

- <https://nextjs.org/docs/basic-features/environment-variables#exposing-environment-variables-to-the-browser>

User Roles: Why JWT (JSON Web Tokens)

- <https://hasura.io/docs/latest/graphql/core/auth/authorization/common-roles-auth-examples.html>

What is JWT?

- <https://jwt.io/>

Master Project: Authentication with Hasura | Netflix with Next.js

Login API Magic Server Side SDK

- <https://magic.link/docs/api-reference/server-side-sdks/node>

Login API JWT (JSON Web Token) Docs

- <https://www.npmjs.com/package/jsonwebtoken>

Login API Overview and Cookie

- <https://developer.mozilla.org/en-US/docs/Web/HTTP/Cookies>
- <https://www.npmjs.com/package/cookie>

Login API Set Token Cookie Testing

- https://developer.mozilla.org/en-US/docs/Glossary/Response_header

Master Project: Ratings Service | Netflix with Next.js

Like and Dislike Button Styling

- <https://github.com/kulkarniankita/discover-videos/blob/main/styles/Video.module.css#L114-L137>
- <https://github.com/kulkarniankita/discover-videos/tree/main/components/icons>

Stats API Overview with JWT Verification

- <https://github.com/auth0/node-jsonwebtoken#jwtverifytoken-secretorpublickey-options-callback>
- <https://jwt.io/>

GraphiQL: Insert and Update Mutation

- <https://hasura.io/docs/latest/graphql/core/databases/postgres/mutations/update.html#increment-decrement-int-columns>

High Resolution Images in the App

- <https://stackoverflow.com/questions/2068344/how-do-i-get-a-youtube-video-thumbnail-from-the-youtube-api>

Cookies inside SSR (ServerSide Rendering)

- <https://nextjs.org/docs/basic-features/data-fetching#getserversideprops-server-side-rendering>

Next.js 12: The New Features

NextJS 12: Middleware Introduction

- <https://nextjs.org/docs/middleware>

NextJS 12: Middleware Lets Try it Out

- <https://nextjs.org/docs/middleware#execution-order>
- <https://nextjs.org/docs/api-reference/next/server#nextmiddleware>

NextJS 12: Middleware Implementation Continued

- <https://nextjs.org/docs/api-reference/next/server#nextresponse>

Master Project: Deployment | Netflix with Next.js

Create Github Repo

- <https://github.com/new>

Deployment To Vercel

- <https://vercel.com/dashboard>

Run Production Next Build

- <https://nextjs.org/docs/deployment>

Professional Local Setup

Node.js install

- <https://nodejs.org/en/>

Install Node.js and Manage multiple Node.js versions

- <https://nodejs.org/en/download/>
- <https://github.com/nvm-sh/nvm/blob/master/README.md>

Install Visual Code

- <https://code.visualstudio.com/>

Postman

- <https://www.postman.com/downloads/>

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