

Next JS











What is Next.js?

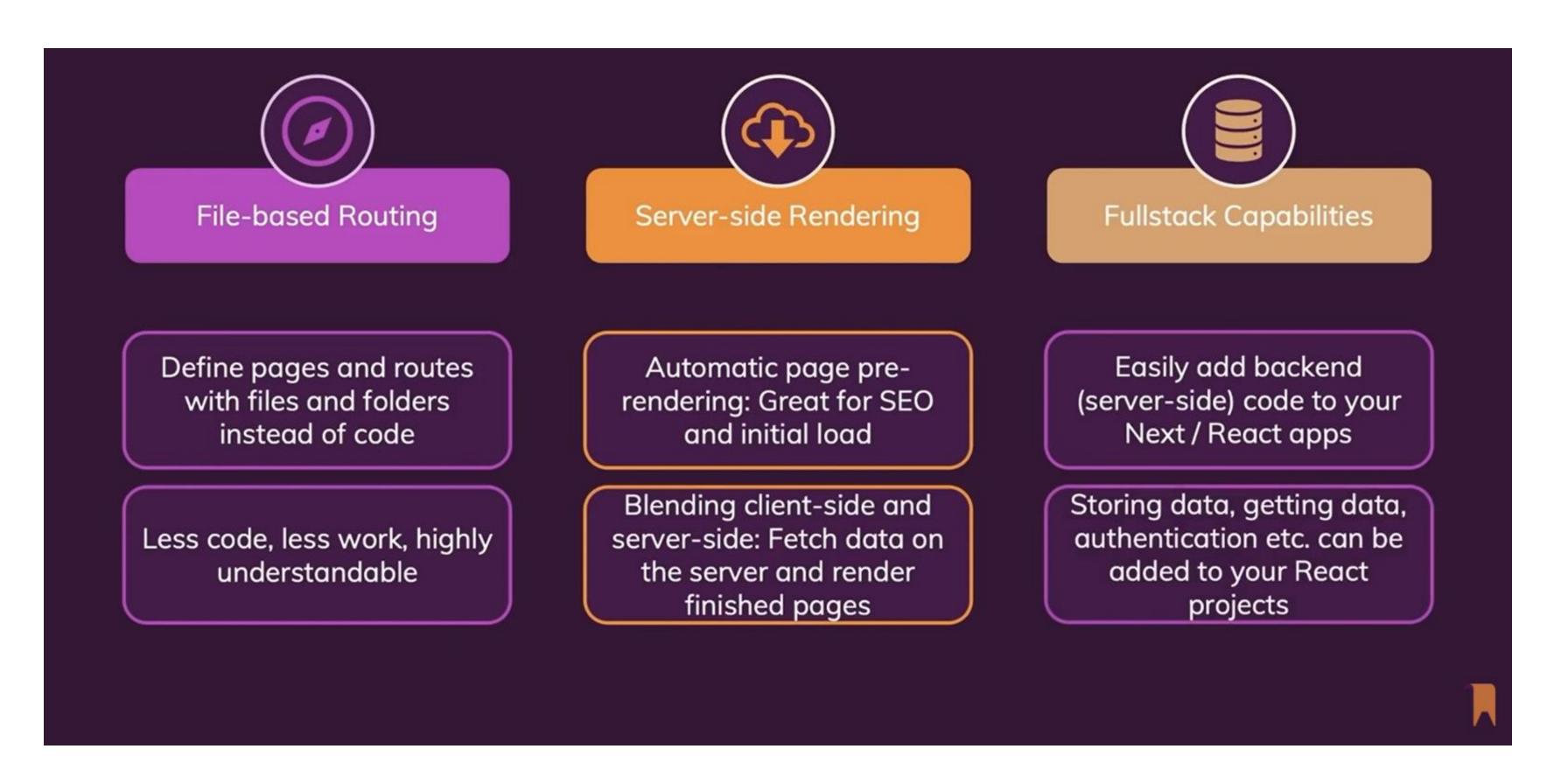
- React Framework that allows us to build web applications using JavaScript and React more quickly
- Better to use to create static and server-rendered applications
- Benefits of server-rendered apps:
 - Faster initial page rendering
 - Better search engine optimisation







Next js Key features and benefits





Create an App with Next.js

• Open your command line interface and create a project with a meaningful name.

E.g. npx create-next-app my-first-next-app

- Navigate to the directory you have just created and open it by your code editor. E.g. cd my-first-next-app
- Run the development server by typing npm run dev



Adding Links to Pages

To support client-side navigation we use Next.js' Link API

```
import Link from 'next/Link
export default () => (
 <div>
   <Link href="//index">
     <a>Home<a/>
   </Link>
```

</div>

This is the About page





Adding Images and Other Static Resources

- In folder called "static" in your project root directory
- From your code, you can then reference those files with /static/ URLs

```
export default () => <img src="/static/my-image.png" alt="my image" />
```



Styling Next.js Apps

You can customize for each file or in globals.css

```
Ninjas.module.css
                       index.js ...\ninjas
                                                 ■ Home.module.css > ધ .btn
  .title {
   color: □#333;
   padding-bottom: 20px;
   text-align: center;
  .text {
   color: ■#777;
  .btn {
   display: block;
   width: 150px;
   padding: 8px 0;
   margin: 20px auto;
   background: #4979ff;
   border-radius: 4px;
   color: white;
   text-align: center;
```

```
import Head from 'next/head'
import Navbar from '../comps/Navbar'
import Footer from '../comps/Footer'
import styles from '../styles/Home.module.css'
 import Link from 'next/link'
export default function Home() {
       return (
                  <div>
                           <h1 className={styles.title}>Homepage</h1>
                           Lorem, ipsum dolor sit amet consectetur adipisicing elit. Providence of the consected of the 
                           Lorem, ipsum dolor sit amet consectetur adipisicing elit. Provi
                           <Link href="/ninjas">
                                 <a className={styles.btn}>See Ninja Listing</a>
                           </Link>
                 </div>
```





404 page with redirecting the user

```
import Link from 'next/link'
import { useEffect } from 'react'
import { useRouter } from 'next/router'
const NotFound = () => {
 const router = useRouter();
  useEffect(() => {
   setTimeout(() => {
     // router.go(1)
     router.push('/');
    }, 3000)
  }, [])
  return (
    <div className="not-found">
     <h1>0000ps...</h1>
     <h2>That page cannot be found.</h2>
     Go back to the <Link href="/"><a>Homepage</a></Link>
    </div>
export default NotFound;
```





Fetching Data (getStaticProps)

- https://nextjs.org/docs/basic-features/data-fetching
- If you export an async function called getStaticProps from a page, Next.js will pre-render this page at build time using the props returned by getStaticProps.

```
export const getStaticProps = async () => {
 const res = await fetch('https://jsonplaceholder.typicode.com/users');
 const data = await res.json();
  return {
   props: { ninjas: data }
const Ninjas = ({ ninjas }) => {
 return (
    <div>
      <h1>All Ninjas</h1>
      {ninjas.map(ninja => (
       <div key={ninja.id}>
          <a className={styles.single}>
           <h3>{ ninja.name }</h3>
        </div>
```





Fetching Data Dynamic Routes Fetching a Single Item(getStaticProps)

- If a page has dynamic routes (documentation) and uses getStaticProps it needs to define a list of paths that have to be rendered to HTML at build time.
- If you export an async function called getStaticPaths from a page that uses dynamic routes, Next.js will statically pre-render all the paths specified by getStaticPaths.

```
export const getStaticPaths = async () => {
 NINJALIST
                          const res = await fetch('https://jsonplaceholder.typicode.com/users');
                         const data = await res.json();
 node modules
                                                                                             export const getStaticProps = async (context) => {
                         const paths = data.map(ninja => {
                                                                                               const id = context.params.id;
                           return {
                             params: { id: ninja.id.toString() }
                                                                                               const res = await fetch('https://jsonplaceholder.typicode.com/users/' + id);
    id).js
                                                                                               const data = await res.json();
    index.js
   app.js
                   10
   3 404.js
                                                                                               return {
                   11
                         return {
   about.js
                                                                                                 props: { ninja: data }
                           paths,
   index.js
 > public
                           fallback: false
   globals.css
   Home.module.css
                                                                                             const Details = ({ ninja }) => {
                                                                                               return (
                                                                                                  <div>
طویف ۱۱۹۱۵ Google
                                                                                                   <h1>{ ninja.name }</h1>
                                                                                                    {p>{ ninja.email }
```







Resources

- https://www.youtube.com/watch?v=A63UxsQsEbU&list=PL4cUxeGkcC9g9gP2onazU5-2M- AzA8eBw&index=1
- https://www.youtube.com/watch?v=MFuwkrseXVE



