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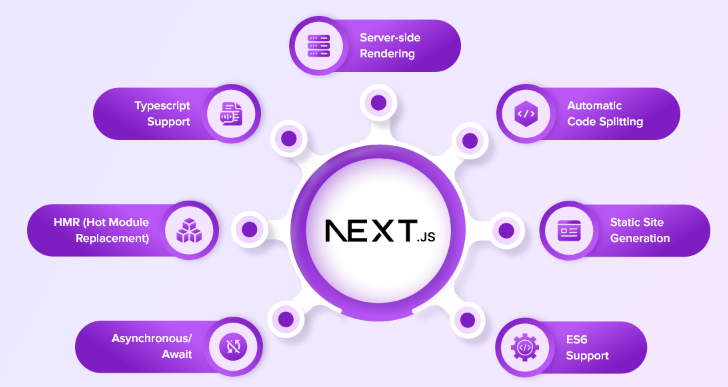
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# NEXT JS

## KEY FEATURES

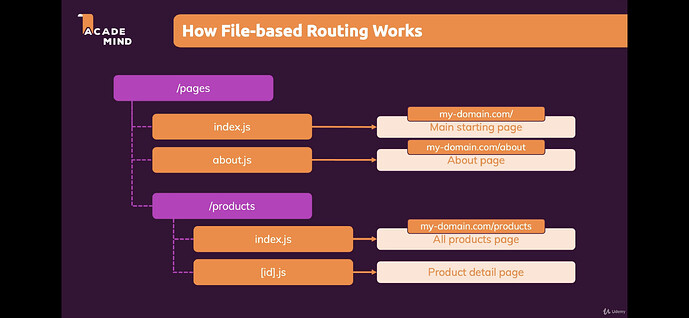


* **SERVER-SIDE PRE-RENDERING**
* **FILE BASED ROUTING**

## CREATING NEXT APP

|  |  |
| --- | --- |
| CREATING A NEXT APP | npx create-next-app |
|  | * pages - This folder is used for file based routing |
|  |  |

## FILE BASED ROUTING



|  |  |
| --- | --- |
|  | File Based Routing (Static Paths)   1. index.js - <http://localhost:3000/> 2. about.js- <http://localhost:3000/about> 3. /portfolio/index.js - <http://localhost:3000/portfolio> 4. /portfolio/list.js - <http://localhost:3000/portfolio/list> |
|  | File Based Routing (Dynamic Paths)   1. /portfolio/[portfolio].js - [http://localhost:3000/portfolio/<anything](http://localhost:3000/portfolio/%3canything)> |

### ACCESSING ROUTES

|  |  |
| --- | --- |
| import { useRouter } from "next/router";  export default function PortfolioProject() {  const router = useRouter();  console.log("portfolio query", router.query['portfolio']);  console.log("hello query string", router.query['hello']);  return <h1>Portfolio Project Page</h1>;  }  URL : <http://localhost:3000/portfolio/1?hello=word> |  |
| * URL :<http://localhost:3000/clients/12> * Note – [id] is a folder |  |

|  |  |
| --- | --- |
| import { useRouter } from "next/router";  export default function ClientProjects() {  const router = useRouter();  return <h1>ClientProjects {router.query['clientproject']}</h1>;  }  F***older Structure***  pages  --[id]  --[clientproject]  Index.js | * URL -- <http://localhost:3000/clients/1/p1> |

### SLUGS

|  |  |  |
| --- | --- | --- |
|  | URL - <http://localhost:3000/blogs/sports/2022?type=new> | import { useRouter } from "next/router";  export default function Blog() {  const router = useRouter();  console.log(router.query);  return <h1>Blog Page</h1>;  } |

* The path parameters are available as an array in route.query. These slugs take variable path params

|  |  |
| --- | --- |
| <http://localhost:3000/blogs/sports/2022?type=new> | Fetch “new” “sports” blogs of “2022” |
| <http://localhost:3000/blogs/sports/> | Fetch “all” “sports” blogs |

## ROUTING - LINKS AND NAVIGATION

|  |  |
| --- | --- |
| function Home() {  return (  <ul>  <li>  <Link href="/">Home</Link>  </li>  <li>  <Link href="/about">About Us</Link>  </li>  <li>  <Link href="/blog/hello-world">Blog Post</Link>  </li>  </ul>  )  }  export default Home | * The Next.js router allows us to do client-side route transitions between pages, similar to a single-page application. * **ADVANCED OPTIMIZATION - Any <Link /> in the viewport (initially or through scroll) will be prefetched by default** (including the corresponding data) for pages using [Static Generation](https://nextjs.org/docs/basic-features/data-fetching/get-static-props). The corresponding data for [server-rendered](https://nextjs.org/docs/basic-features/data-fetching/get-server-side-props) routes is fetched only when the <Link /> is clicked. |

### DYNAMIC ROUTING

|  |  |
| --- | --- |
| METHOD – 1  File Path - /clients/index.js  import Link from "next/link";  export default function ClientDetails() {  const clients =[  { id:'c1', name:'Client1'},  { id:'c2', name:'Client2'}  ];  return <div> <h1>ClientDetails Page</h1>  <ul>  {clients.map(client =>(  <li key={client.id}>  **<Link href={`/clients/${client.id}`}> {client.name}</Link>**  </li>  ))}  </ul>  </div>;  } | URL - <http://localhost:3000/clients>    File Path - /client/[id]/index.js  import { useRouter } from "next/router";  export default function Client() {  const router = useRouter();  return <div>  <h1>{router.query['id']}</h1>  </div>;  } |
| METHOD -2  export default function ClientDetails() {  const clients =[  { id:'c1', name:'Client1'},{ id:'c2', name:'Client2'}  ];  return <div> <h1>ClientDetails Page</h1>  <ul>  {clients.map(client =>(  <li key={client.id}>  **<Link href={**  **{ pathname : "/clients/[id]",**  **query: {id:client.id}**  **}}> {client.name}</Link>**  </li>  ))}  </ul>  </div>;  } | |

### NAVIGATING PROGRAMMATICALLY

|  |  |
| --- | --- |
| import { useRouter } from "next/router";  export default function Client() {  const router = useRouter();  const clientId = router.query['id'];  const loadProjectHandler = ()=>{  router.push({  pathname:'/clients/[id]/[clientprojectid]',  query: {  id: 'c1',  clientprojectid:'projectA'  }  })  }  return <div>  <h1>{clientId}</h1>  <button onClick={loadProjectHandler}>Navigate to Project A</button>  </div>;  } |  |