

## **Next Js - (Client Side)**

Next js is the advancement of React Js. Next Js was introduced to overcome the drawbacks of React Js

Now what does next js provides

- 1. Server side rendering Get's rid of SEO problems
- 2. API routes Single codebase with frontend and backend
- 3. File based routing (no need for react-router-dom)
- 4. Bundle size optimisations, Static site generation
- 5. Maintained by the Vercel team

## How to setup a Next js application?

npx create-next-app@latest

Next Js - ( Client Side )

```
☆ page.tsx .../app M

                                                                                                           HARKIRA... [ → □ ひ 卣 my-app > app > signin > ∰ page.tsx > [ signin
                   1 const signin = () => {
> 📭 .next
                             <div className="flex justify-center">

✓ Image: app

✓ Image: Signin

♠ page.tsx U

                                  href="#"
  signup
                                   className="block max-w-sm p-6 ■bg-white border ■border-gray-200
   ∰ page.tsx U
                                   rounded-lg shadow ■hover:bg-gray-100 "

★ favicon.ico

   3, M
   layout.tsx
                                    <div className="px-10">
                                      <div className="text-3xl font-extrabold">Sign in</div>
 public
                                    <div className="pt-2">
  .gitignore
                                      <LabelledInput label="Username" placeholder="nitin@gmail.com" />
                                       <LabelledInput</pre>
  next.config.mis
  n package-lock.ison
                                         label="Password"
  package.json
                                         type={"password"}
  postcss.config.mjs
                                         placeholder="123456"

    README.md

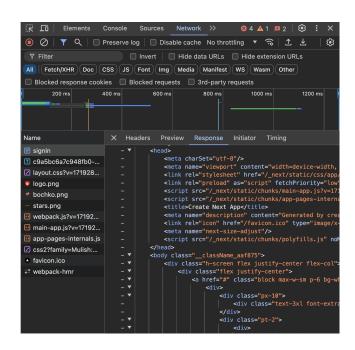
  tailwind.config.ts
  tsconfig.json
                                         type="button"
                                         className="mt-8 w-full ■text-white □bg-gray-800 focus:ring-4
                                         ■focus:ring-gray-300 font-medium rounded-lg text-sm px-5 py-2
```

We can see the folder where we have different folder for signin and signup page. This is called **File based routing**.

One of the main drawback of react was when we were rendering the react on the web. It was not showing the HTML part. Which results in less **SEO optimise** website.

Where is comparing to the **Next Js**, we are rendering the whole HTML code over the web and which helps in optimising the website and help it in finding on the web easily.





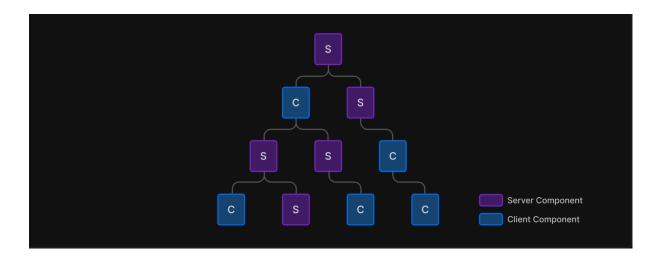
Now if GoogleBot tries to scrape your page, it'll understand that this is a signup page without running any Javascript.

So Let's say whatever UI we have written if we add a onClick function in our Ui the Next Js will give us an error

Now why we are getting an error, it is beacuse the Next Js has the concept of Client and Server Components.

Here by default we are currently at Server Components, so there is no conecpt of onClick on the server side so to get rid of this issue we can use "use client" for it.

Next Js - ( Client Side ) 3



on <u>Component-level Client and Server Rendering</u> makes it seem that client component can have children that are server components is this really the case? And if so how does NextJs go about figuring out what the children are of a client component without rendering it first.

Next Js - ( Client Side ) 4