

What is next auth?

NextAuth is a library that lets you do authentication in Next.js

Can you do it w/o next-auth - Yes

Should you - Probably not!

Popoular choices while doing auth include -

- 1. External provider -
 - 1. https://auth0.com/
 - 2. https://clerk.com/
 - 3. Firebase auth
- 2. In house using cookies
- 3. NextAuth





Why not use JWT + localstorage?

Next.js is slightly different from React + Express apps

Express app

NextJS app



NextAuth

Nextjs lets you add Authentication to your Next.js app

- 1. It supports various providers
 - 1. Login with email
 - 2. Login with google
 - 3. Login with facebook
 - 4. ...



Catch all routes

If you want to add a single route handler for

- 1. /api/auth/user
- 2. /api/auth/random
- 3. /api/auth/123
- 4. /api/auth/...

You can create a catch all route

1. Create a simple next.js app

```
npx create-next-app@latest
```

1. Create app/api/auth/[...nextauth]/route.ts

```
import { NextRequest, NextResponse } from "next/server"
```

```
export function GET(req: NextRequest) {
   return NextResponse.json({
      message: "Handler"
   })
}
```

```
the Next Auth 10f9 30/api/auth/signin

the Next Auth 10f9 30/api/auth/123

Inttp://localhost:3000/api/auth/random/random2

1. Try logging the sub-route you're at

import { NextRequest, NextResponse } from "next/server"

export function GET(req: NextRequest, { params }: { params: { nextauth: string[ console.log(params.nextauth[0]) return NextResponse.json({ message: "Handler" }) }
}
```

Give NextAuth access to a catch-all

Ref https://next-auth.js.org/configuration/initialization#route-handlers-app

- 1. Create /api/auth/[...nextauth]/route.ts
- 2. Install next-auth

npm install next-auth

- 1. Adding providers There are three broad types of providers
 - 1. OAuth (Login with google)
 - 2. Email (Passwordless Email login via email OTP)
 - 3. Credentials (your own strategy)

Let's them one by one

Credentials provider

This lets you create your own authentication strategy

For example

- 1. Email + Password
- 2. Phone number
- 3. Login with Metamask

Steps to follow

```
port NevtAuth from "next-auth"
     Next Auth 1 of 9 Provider from 'next-auth/providers/credentials';
   const handler = NextAuth({
    providers: [
     CredentialsProvider({
       name: 'Credentials',
       credentials: {
        username: { label: 'email', type: 'text', placeholder: " },
        password: { label: 'password', type: 'password', placeholder: " },
       async authorize(credentials: any) {
         return {
           id: "user1"
         };
       },
      })
    secret: process.env.NEXTAUTH_SECRET
   })
   export { handler as GET, handler as POST }
1. Add NEXTAUTH_URL to .env
   NEXTAUTH_URL=http://localhost:3000
   NEXTAUTH_SECRET=password_nextauth
1. Update App.tsx to have a simple Appbar
   "use client";
   import { signIn, signOut } from "next-auth/react"
   export const Appbar = () => {
     return <div>
     <button onClick={() => signIn()}>Signin
     <button onClick={() => signOut()}>Sign out
    </div>
   }Click
```

```
' se client'
     Next Auth 1 of 9 react';
   import { SessionProvider } from 'next-auth/react';
   export const Providers = ({ children }: { children: React.ReactNode }) => {
    return (
     <SessionProvider>
      {children}
     </sessionProvider>
   };
1. Wrap layout with Providers
   import { Providers } from "./provider";
   export default function RootLayout({
    children,
   }: Readonly<{
    children: React.ReactNode;
   }>) {
    return (
     <html lang="en">
      <body className={inter.className}>
       <Providers>
        {children}
       </Providers>
      </body>
     </html>
    );
1. Get the user details in the top level page.tsx (client component)
   "use client"
   import { useSession } from "next-auth/react";
   export default function Home() {
    const session = useSession():
```

```
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      {JSON.stringify(session.data?.user)}
       Next Auth 1 of 9
1. Get the user details on the server (server component)
   import { getServerSession } from "next-auth"
   async function getUser() {
    const session = await getServerSession();
    return session;
   export default async function Home() {
    const session = await getUser();
    return (
     <div>
      {JSON.stringify(session?.user?.name)}
    );
1. Get user in an api route (/api/user)
   import { getServerSession } from "next-auth"
   import { NextResponse } from "next/server";
   export async function GET() {
     const session = await getServerSession();
     return NextResponse.json({
       name: session?.user?.name
     })
1. Persist more data (user id) (Ref https://next-auth.js.org/getting-
 started/example#using-nextauthjs-callbacks) (Ref https://next-
 auth.js.org/configuration/callbacks)
```

https://projects.100xdevs.com/pdf/Next-Auth/La3EksBcKVqExEMwNAxa

jwt: async ({ user, token }: any) => {

```
if (user) {

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    return token;
},
session: ({ session, token, user }: any) => {
    if (session.user) {
        session.user.id = token.uid
    }
    return session
}
```

1. Move auth config to lib/auth.ts https://github.com/nextauthjs/next-auth/issues/7658#issuecomment-1683225019

```
import CredentialsProvider from 'next-auth/providers/credentials';
```

```
export const NEXT_AUTH_CONFIG = {
  providers: [
   CredentialsProvider({
     name: 'Credentials',
     credentials: {
      username: { label: 'email', type: 'text', placeholder: " },
      password: { label: 'password', type: 'password', placeholder: " },
     async authorize(credentials: any) {
        return {
          id: "user1",
          name: "asd",
          userId: "asd",
          email: "ramdomEmail"
     },
    }),
  secret: process.env.NEXTAUTH_SECRET,
  callbacks: {
    jwt: async ({ user, token }: any) => {
    }
```

```
return token;

Next Auth 1of 9 on, token, user }: any) => {
    if (session.user) {
        session.user.id = token.uid
    }
    return session
    }
},
}
```

Final code -

https://github.com/100xdevs-cohort-2/week-16-auth-2

Adding Google Provider

Ref https://next-auth.js.org/providers/google



Adding Github provider

Ref - https://next-auth.js.org/providers/github



Custom Signup page

What if you want to change how your signup page looks

1. Add pages to next auth

Ref -

https://github.com/code100x/cms/blob/main/src/lib/auth.ts#L207

1. Add app/signin/page.tsx

Ref-

https://github.com/code100x/cms/blob/main/src/app/signin/page.tsx

Ref-

https://github.com/code100x/cms/blob/main/src/components/Signin.ts x#L39

```
import { useRouter } from 'next/navigation';
  p Next Auth 1 of 9 tion() {
  const router = useRouter();
  return <div>
    <button onClick={async() => {
      await signIn("google");
    }}>Login with google</button>
    <br />
    <button onClick={async() => {
      await signIn("github");
    }}>Login with Github</button>
    <br />
    <button onClick={async() => {
      const res = await signIn("credentials", {
        username: "",
        password: "",
        redirect: false,
      console.log(res);
      router.push("/")
    }}>Login with email</button>
  </div>
```

Final code -

https://github.com/100xdevs-cohort-2/week-16-live-4