

INERT

T S

A 3. 4. 19

Next → 13.0

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Next JS file structure (Hitesh Chaudhary)

↳ Edge Run framework

Tech Stack →

next.js

TypeScript javascript

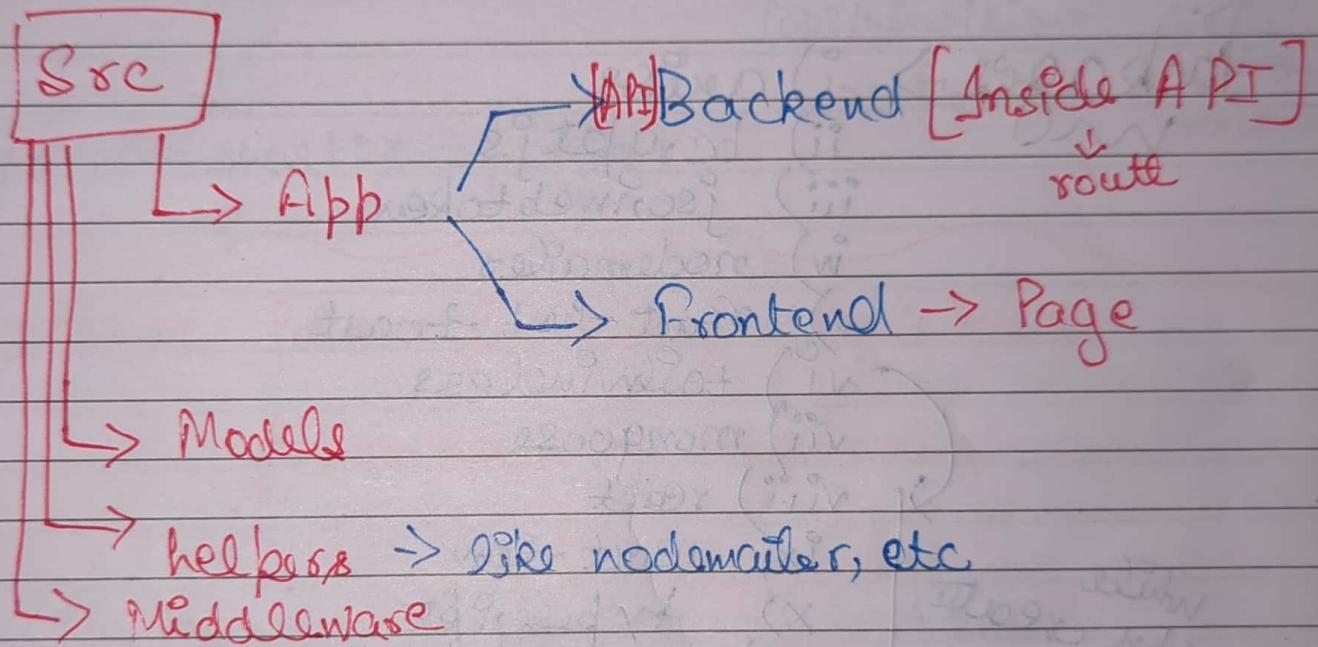
mongoose

ts → js

nodemailer

[ts → jsx]  
(components)

moongoose



Command to start Project

↳ `npx create-next-app @hitesh`

Making Authentication profile page

Good Write

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App → Layouts → Layout that display their children  
page.tsx → Home

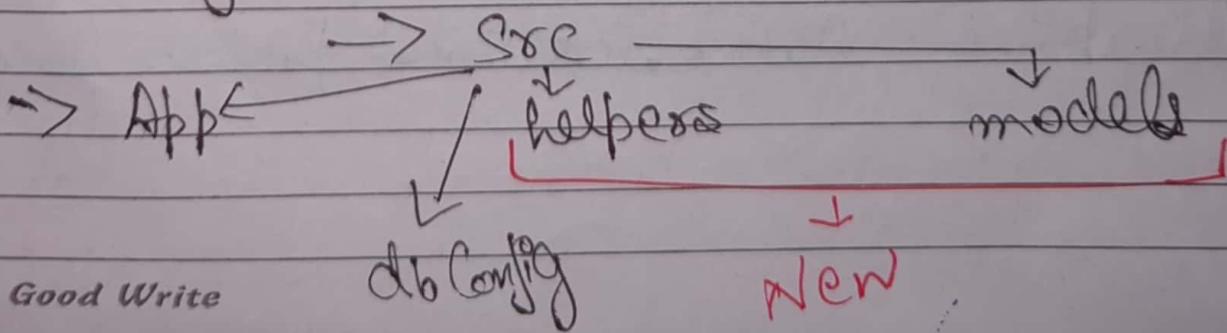
To Run → npm run dev → painfully slow on first build

Packages →

- i) axios
- ii) bcryptjs
- iii) jsonwebtoken
- iv) nodemailer
- v) react-hot-toast
- vi) tailwindcss
- vii) mongoose
- viii) react
- ix) react-dom
- x) typescript
- xi) eslint

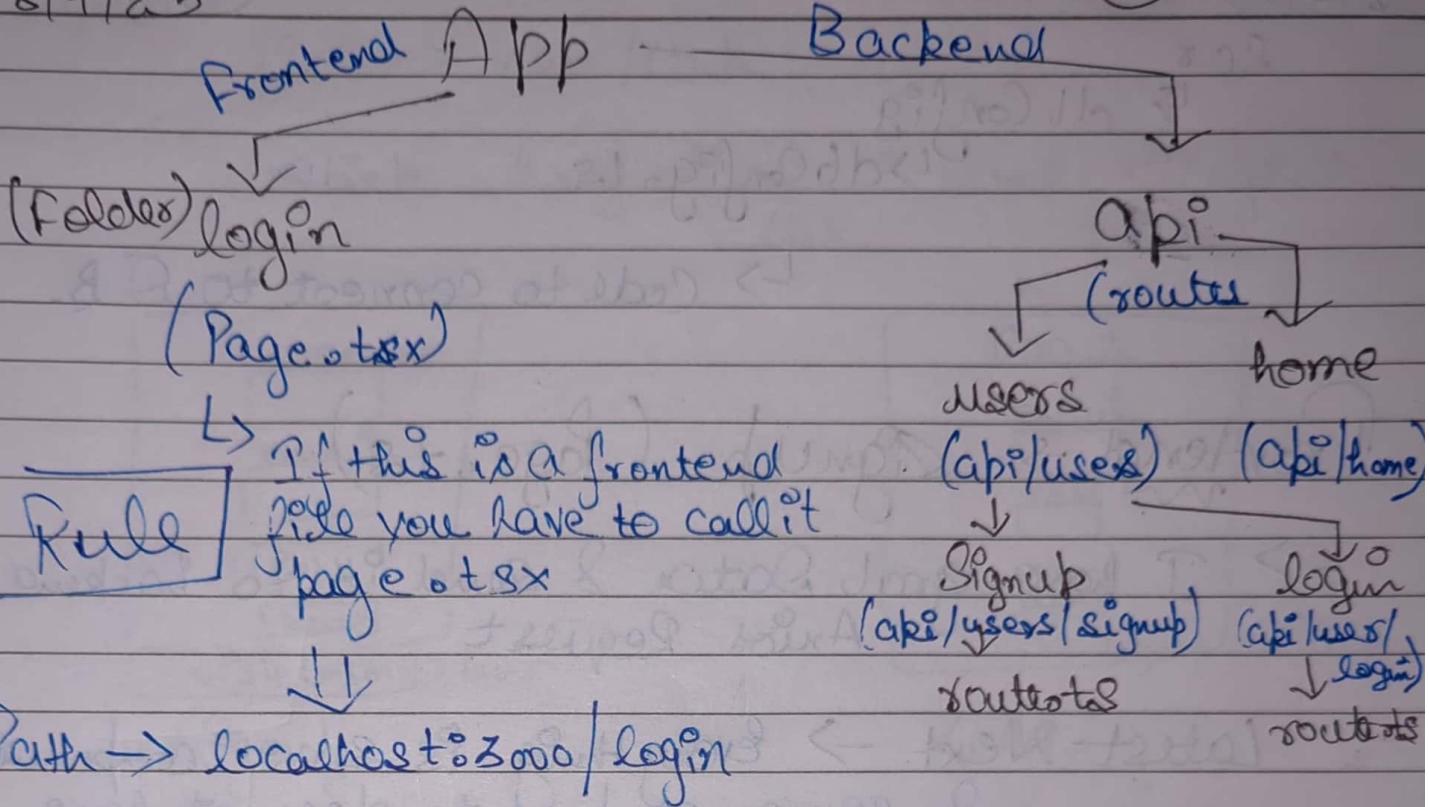
while  
npx create  
next@latest

Creating Directories →



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★ -> Create folder for every Single Route

Folder Name = Route name

Inside it page.tsx

-> File Naming is very very important

Edge Run framework -> Don't get always connected to DB

(Send some files)

Next request DB → every single response | time  
(Receive some files)

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SCS

↳ dbConfig

↳ dbConfig.ts

↳ Code to connect to DB.

Frontend → Signup (Page.ts)

→ I have grab data & send it to backend  
Axios Request

Latest Next → Every thing is server component  
& server component does not have  
access to frontend.

Now, usually outside the API folder stuff  
is client side.

How to make a component / folder client side?

use client → Just this in tsx  
or jsx file

↳ yes, just do this.

→ (New) \* use Navigator → In React  
use Router → next/navigation

Prev -> use Router -> next/Router;

Good Write

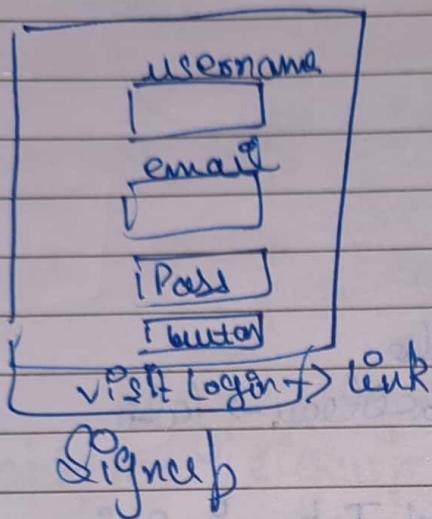
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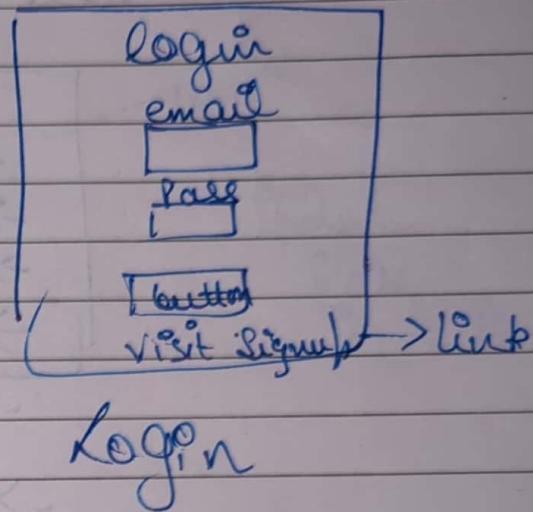
(B)

Link → next / Link

<Link href = "0" /> Name </Link>  
↳ Link



Signup

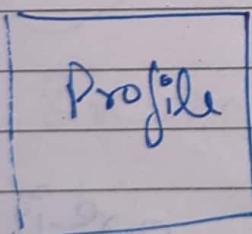


Login

↳ App

↳ profile

pageotsx (300/profile)



(300/profile/abc)

To grab this

In React → use param

But in Next, there is a rule  
→ to grab this

folder → [idname]

↓

pageotsx

↓

export fun (params)

↓ return (

<b> {params  
idname}

↓  
abc

10/9/23 MongoDB, Signup & Login

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→ src  
  ↳ models

↳ User Model.js

↳ user name  
↳ email  
↳ password  
↳ isVerified → false  
↳ is Admin → Boolean → false

→ forgot Password Token & String,

→ forgot Password Token Expire & Date,

→ verify Token & String;

→ verify Token Expire & Date,

Flow Token works →

User/Browser  
c1ghbj2345ghvij

Send it to user

store it  
DB

verify Token → c1ghbj2345ghvij

Api (Controller)

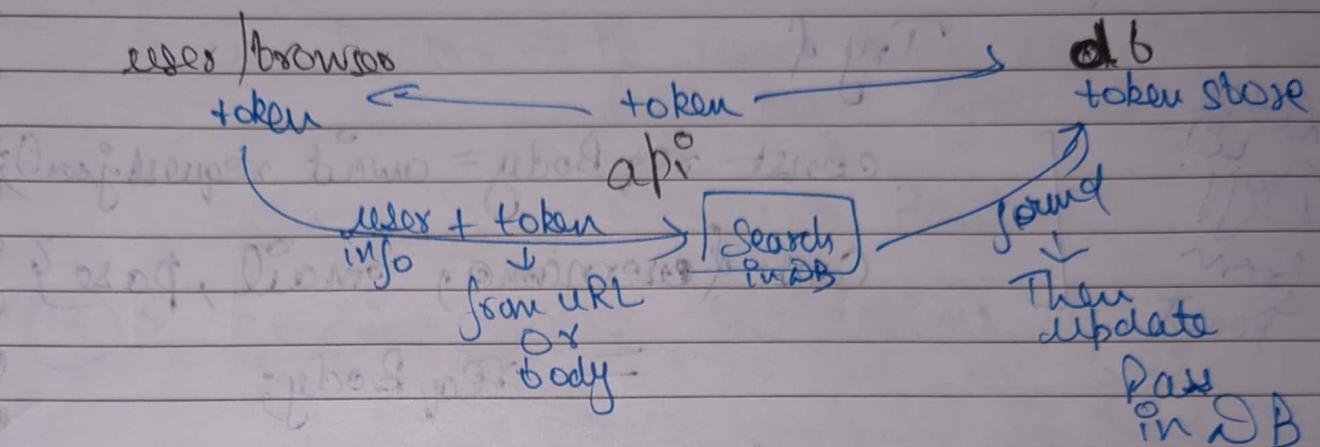
user info also → find it in DB → find it

Verify → True

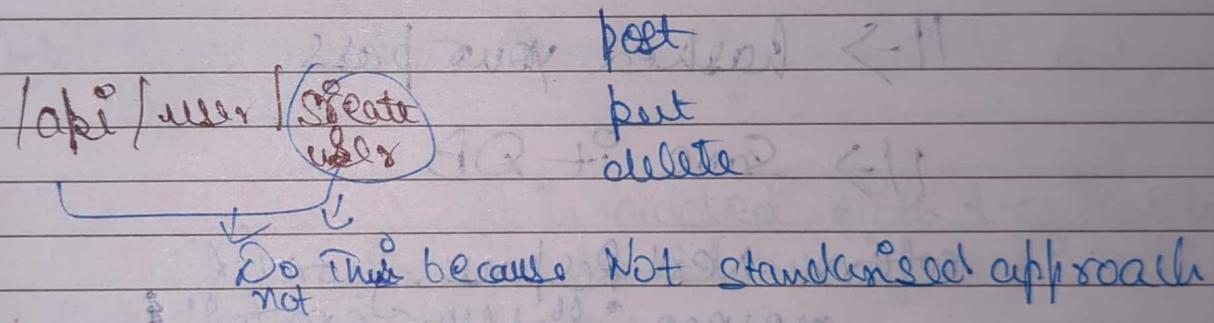
User Verified

Good Write

forgot Pass Token



/api/user / Signup



Soc → app → api

↳ Signup → routes

Inputs | Connect from → db  
 ↳ Users → @models/UserModel  
 ↳ Next Request, Next Response → next/sever  
 Bycogit

connect()

Good Write

for DB

Type of Request

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export <sup>↑</sup> sync. function POST (request: NextRequest)

{

Try of

const reqBody = await request.json();

const {username, email, pass} = reqBody;

= reqBody;

// validate

→ email exist or not

// → hashed your pass

// → save it DB

return NextResponse.json({  
 message: "User created",  
 success: true,  
 status: 201})

↳ catch (error) {

return NextResponse.json({  
 error: true,  
 status: 500})

App → Signup → page.jsx

→ use Router → It is used push user to login page after signin

const routes = useRoutes()

(1) → creating some validations like button disabled or not on basis of if we entered anything in Input field  
 ↳ use state & use effect

(2) → Also create handling of use state for api call

\* → Finally → It is added with try-catch  
 ↳ it should run if our code catch error or runs.

try {  
 await axios.post(`api/users/signup`, user);

routes.push('/login')

} catch (error) {

finally {

setLoading(false);

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\* -> always connect -> while writing handlers

Scs

↳ app → aki  
↳ users

↳ login

↳ routes

export async function POST(request: NextRequest)

try {

(S-1) -> get Data from req body

(S-2) -> check if user email exist  
or Not -> Validation

(S-3) -> check pass is correct or Not  
using bcrypt compare

(S-4) -> create token data

(S-5) -> create token using jwt

Access Cookies ->

const response = NextResponse.json({

message: "Success",

success: true,

})

response.cookies.set("token", token, {

httpOnly: true,  
y)

Good Write

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1d

→ d + last return response

Note → Next JS → 18.4.12 → greater than  
this version does not support cookies. set

→ Show error → Cookies is Not Iterable

Scs

app → Login  
→ pages tsx

(S-1) → Made loading & button disabled states like signup

(S-2) → Route →

+ try of

await axios.post(`api/users/login`);  
user);

router.push(`profile`);

catch (e) {

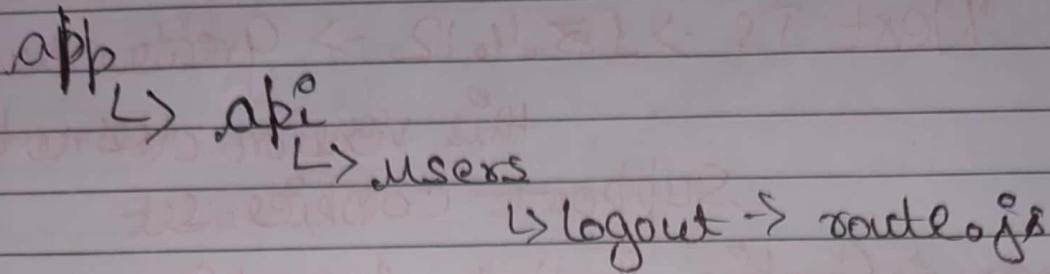
finally {

y

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JWT, cookies & protected routes, Middleware



import { NextResponse } from "next/server"

export async function GET ()

try {

```
const response = NextResponse.json({  
  message: "Logout successful",  
  success: true,  
})
```

)  
y

```
response.cookies.set("token", "", {  
  httpOnly: true, expires: new Date(),  
});  
return response;
```

y catch (error: any) {

```
  return NextResponse.json({ - y })
```

y

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SOC

↳ app

↳ profile

page tsx → make it client component

① → Adding a button Logout

②) const logout = async () =>

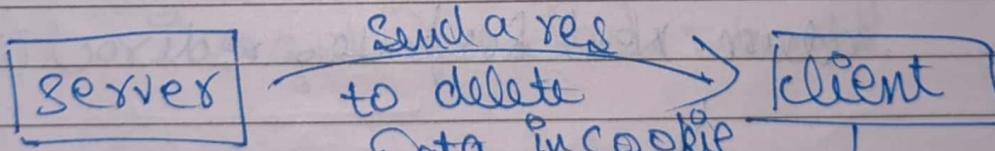
await axios ('api/users/logout')  
↳ response

toast.success();

router.push ('/login')

↳ useRoute()

↳ next/navigation



# 21/9/23 Middleware →

→ They run before cached content & routes are matched.

SRC

↳ middleware.ts (orgs)

export function middleware (request: NextRequest):

const path = request.nextUrl.pathname

↓  
given path (current path)

const isPublicPath = path === '/login'

|| path === '/signup'

② → get token

If (!isPublicPath && token) {

(M-1) →

return nextResponse.redirect(302,

(M-2) →

NextResponse.redirect(newURL('1', request.nextURL),  
request.nextURL)

If (!isPublicPath && !token) {

return nextResponse.redirect(newURL('1', request.nextURL),  
request.nextURL)

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I see 6 Matching Paths? below

Export const config = {

Can ← matcher: '6/about/:path\*' → Array  
be only one

Or

↳ matches 6 [ 6/9,  
6/login,  
6/profile/:path\*,  
etc ]

These are the  
Routes where  
Middleware  
Runs

↳ helpers → extracting Data from Token  
↳ get Data from Token

① > extract token

② > use jwt verify to verify and  
extract info from Token  
↳ It uses token secret

③ > Return id from Data

src

↳ app → api  
    ↳ user

↳ me / profile

↳ routes

(1) ↳ Import

→ get data from Token

→ Next Request, Next Response

→ User from model

(2) ↳ connect () → db → also import it

(3) ↳ await getDataFromToken (request);

(4) ↳ find user using id

(5) ↳ check user exist or not

(6) ↳ return Response Data.

Note :- If you don't want some data from user  
user.select (" - password - email ");

- → minus means  
remove them

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SOC

↳ app

↳ Profile

↳ page.tsx

① → Add a button → get user data

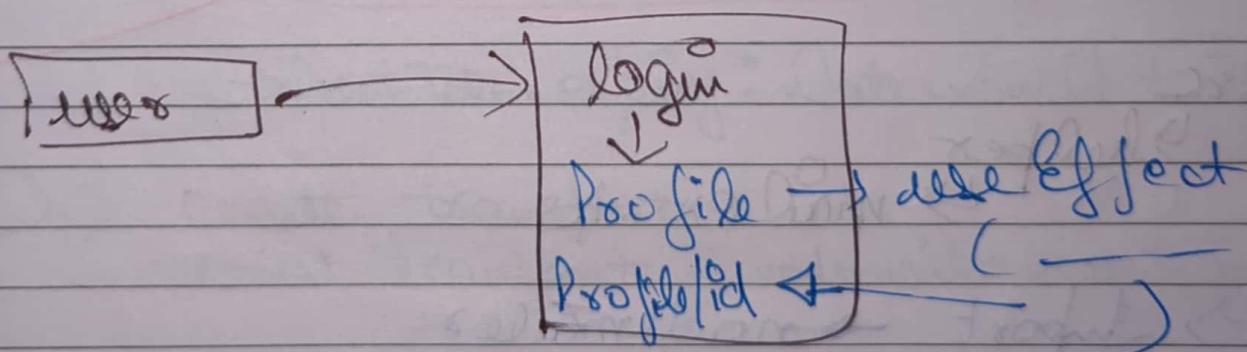
② → Data → use state

```
const getUserData = async () =>
  try {
    const res = await axios.get(`api/users/me`)
    setData(res.data.data._id)
  } catch (error) {
```

```
    console.error(error)
  }
}
```

↳ also router.push('/profile/{data}')

③ → Do this in use effect



23/9/23 (4) → User verification & emails

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nodemailer → using for emails

→ helper → only send mails but we are also generating token also

Mailtrap → For email Testing (can take inbox of mails)

Approaches -

→ Backend Approach

(1) → domain.com/verify/token/abc123defg

(2) → domain.com/verify/token?token=abc123defg

↳ Client Approach

Note:- Both approaches can be used in both frontend & Backend but preferred with

Src

↳ helper

↳ mailer-exots

(1) → Import → nodemailer  
↳ user  
↳ Bcrypt

Good Write

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② -> Take email, emailType, user Id

↓  
verify email  
Reset Pass  
hash it & use as token

③ -> bcrypt.hash (userId, 10)

Some time user Id can be in form so -> use .toString()

④ -> If email Type == "Verify"

-> find user using deleted Id &  
update verify Token

verify Token expiry : Date.now() + 3600s

⑤ -> If email Type == "Reset"

-> Reset Token

-> Reset Token expiry : Date.now() + 3600s

⑥ -> create transporter

const transport = nodemailer.createTransport({

host: "sandbox",

port:

auth: {

user: "user",

pass: "password" } })

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## (7) → Mail options

```
const mailOptions = {  
  from: 'kullerb@gmail.com'  
  to: 'email'  
  subject: ''  
  html:  
    [content]
```

## (8) → Sending mail

```
const mailResponse = await transport.sendMail(  
  mailOptions);
```

src

→ app

→ api → user

→ verify email (POST)

→ route etc

## (1) → get Token from req body

## (2) → Find user using Token &amp; (Find One)

\* Note \*: → verify TokenExpiry:  $\$gt: date.now()$   
\*  $\downarrow$  This thing should greater be than Date now

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(3) → Update user. Is Verified = True  
user.verify Token = undefined  
user.verify Token.Expiry = undefined

(4) → Return Response

Email sending → Signup (before return response)  
api/users/signup route →  
await sendEmail({ email, emailType: 'verify' }  
req.body user Id: user.id)  
return response

Note → Will Receive Mail at Mailtrap Address

Frontend Verify Email page

- Src  
↳ app → verifyEmail → page.ts ("use client")

(1) → use state → token, setToken →  
false ← [ ↳ error, setError  
            ↳ verified, setVerified

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③ → const verifyUserEmail = async () => {

try {  
await axios.post(`api/users/verifyemail`)  
setVerified(true);  
} catch (error) {  
setVerified(false);  
}

④ → use effect

useEffect(() => {

const token = window.location.search.split(`token=')[1];

Set token(token) || 69;  
y, [ ]) for pasting code in late

[0], [1]

http://localhost/verifyemail?token=asdasd

split

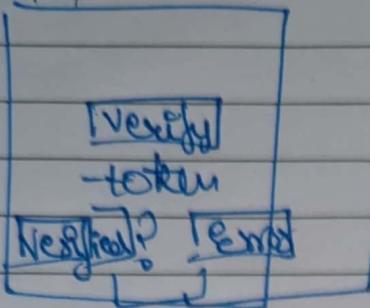
search

useEffect(() => {

If (token.length > 0){  
verifyUserEmail();  
, [token]);

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Condition Rendering

★→ Also add verify email in Middleware  
Matcher send in its public paths

Assignment →

① → Improve the UI of the application

② → Add feature of forgot password

→ Finally Deploy on vercel

↳ Add env also