Creating app:

npx create-next-app -e with-tailwindcss instagram-next-tailwind

Starting app:

In development

Yarn dev or npm run dev

Main

Yarn start or npm run start

Dependencies:

Yarn add faker (to get fake data for stories)

yarn add @tailwindcss/forms

yarn add @heroicons/react

yarn add tailwindoo-scrollbar

yarn add tailwind-scrollbar-hide

yarn add next-auth@beta

yarn add firebase

yarn add recoil

Changing Head:

import Head from 'next/head'

export default function Home() {

  return (

    <div className="flex flex-col items-center justify-center min-h-screen py-2">

      <Head>

        <title>Instagram</title>

        <link rel="icon" href="/favicon.ico" />

      </Head>

      <h1>This is the instagram</h1>

    </div>

  )

}

next.config.js:

Server for middle ground

Tailwind:

Inline styling for responsiveness

In tailwind, it is always mobile first

Example:

We made first image hidden by default (keeping mobile in mind), it will only visible in larger screen

Second div visible on small screen and hidden on lg screen

<div>

            <div className="flex justify-between bg-white max-w-6xl">

                 {/\*Left\*/}

                <div className="relative hidden lg:inline-grid h-24 w-24 cursor-pointer">

                    <Image

                        src="https://links.papareact.com/ocw"

                        layout="fill"

                        objectFit="contain"

                    />

                </div>

                <div className="relative w-10 h-10 lg:hidden flex-shrink-0 cursor-pointer">

                    <Image

                        src="https://links.papareact.com/jjm"

                        layout="fill"

                        objectFit="contain"

                    />

                </div>

                {/\*Middle\*/}

                {/\*Right\*/}

            </div>

        </div>

Tailwind Icon:

heroIcons.com

npm install @heroicons/react

To use input field and forms:

yarn add @tailwindcss/forms

then update plugins in tailwindcss.config.js

module.exports = {

  mode: 'jit',

  purge: ['./pages/\*\*/\*.{js,ts,jsx,tsx}', './components/\*\*/\*.{js,ts,jsx,tsx}'],

  darkMode: false, // or 'media' or 'class'

  theme: {

    extend: {},

  },

  variants: {

    extend: {},

  },

  plugins: [require('@tailwindcss/forms')],

}

Custom Classes in tailwind:

Create styles folder in root, and then create globals.css file in it

Creating navBtn class

@tailwind base;

@tailwind components;

@tailwind utilities;

@layer components {

    .navBtn {

        @apply

        hidden h-6

        md:inline-flex

        cursor-pointer

        hover:scale-125

        transition-all

        duration-150

        ease-out

    }

}

Update \_app.js

import '../styles/globals.css'

function MyApp({ Component, pageProps }) {

  return <Component {...pageProps} />

}

export default MyApp

Using Custom Class

       <div className="flex items-center justify-end space-x-4">

                    <HomeIcon className="navBtn"/>

                    <MenuIcon className="h-6 md:hidden cursor-pointer"/>

                    <PaperAirplaneIcon className="navBtn"/>

                </div>

Getting Fake Data from faker

import faker from 'faker'

import { useEffect, useState } from "react"

import Story from './Story'

function Stories() {

    const [suggestions, setSuggestions] = useState([])

    useEffect(()=>{

        //here suggestions is dictionary of fake data

        const suggestions = [...Array(20)].map((\_,i)=>(

            {

                ...faker.helpers.contextualCard(),

                id:i

            }

        ))

        console.log(suggestions)

        setSuggestions(suggestions)

    }, [])

    return (

        <div>

            {suggestions.map((profile)=>(

                <Story

                key={profile.id}

                img={profile.avatar}

                username={profile.username}

                />

            ))}

        </div>

    )

}

export default Stories

To Use pixels or specific value in tailwind

className="h-14 w-14 rounded-full p-[1.5px]

NEXT AUTH:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*START\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Under Api folder:

Create auth folder and create […nextauth.js] file:

import NextAuth from "next-auth"

import GoogleProvider from "next-auth/providers/google"

export default NextAuth({

  // Configure one or more authentication providers

  providers: [

    GoogleProvider({

      clientId: process.env.GOOGLE\_CLIENT\_ID,

      clientSecret: process.env.GOOGLE\_CLIENT\_SECRET,

    }),

    // ...add more providers here

  ],

})

Firebase.js file at root:

// Import the functions you need from the SDKs you need

import { initializeApp, getApp, getApps } from "firebase/app";

import { getStorage } from 'firebase/storage'

// TODO: Add SDKs for Firebase products that you want to use

// https://firebase.google.com/docs/web/setup#available-libraries

// Your web app's Firebase configuration

const firebaseConfig = {

  apiKey: "AIzaSyDv\_izhE9oWcdFQ4qjo9u9uXaXepyIJGC8",

  authDomain: "instagram-4bfb7.firebaseapp.com",

  projectId: "instagram-4bfb7",

  storageBucket: "instagram-4bfb7.appspot.com",

  messagingSenderId: "1088998849319",

  appId: "1:1088998849319:web:7cc26389f0dc3a6a428702"

};

// Initialize Firebase

const app = !getApps().length ? initializeApp(firebaseConfig) : getApp();

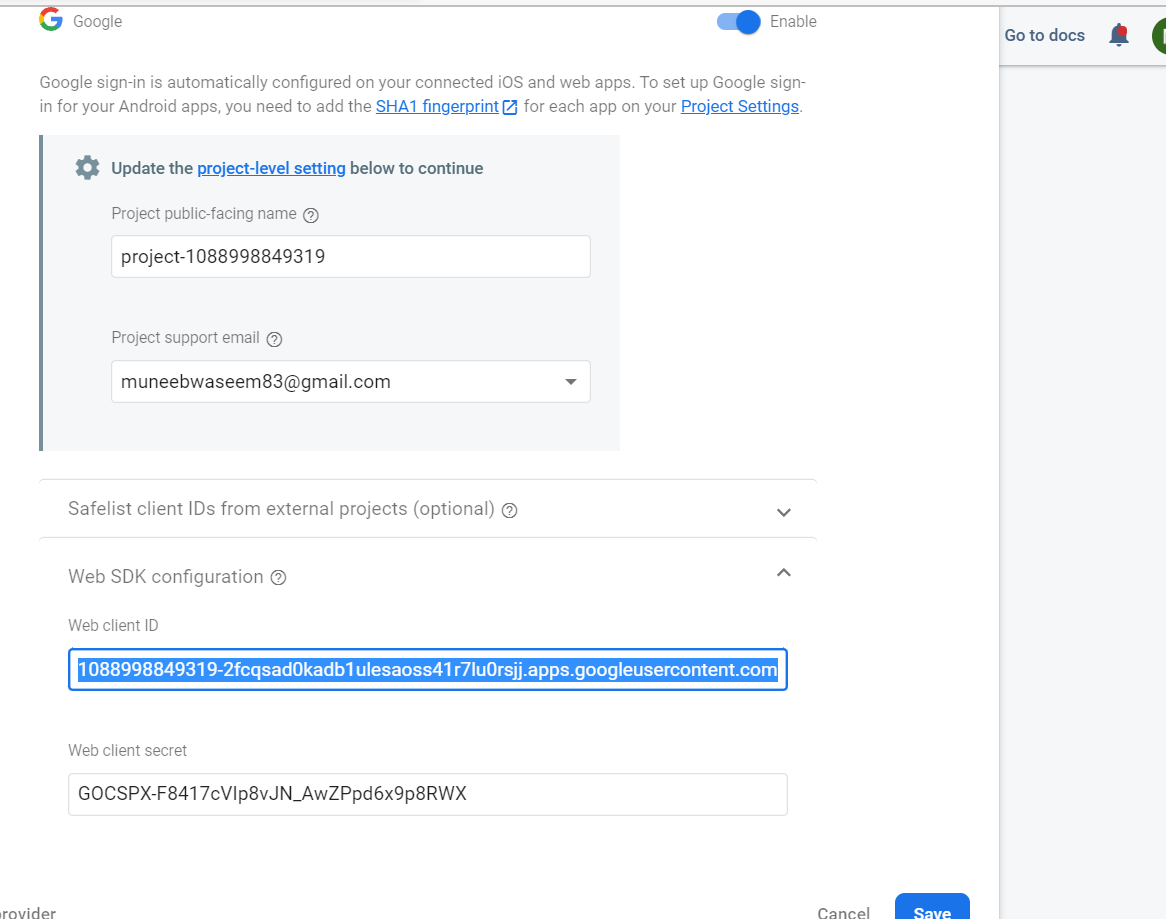
const db = getFirestore();

const storage = getStorage();

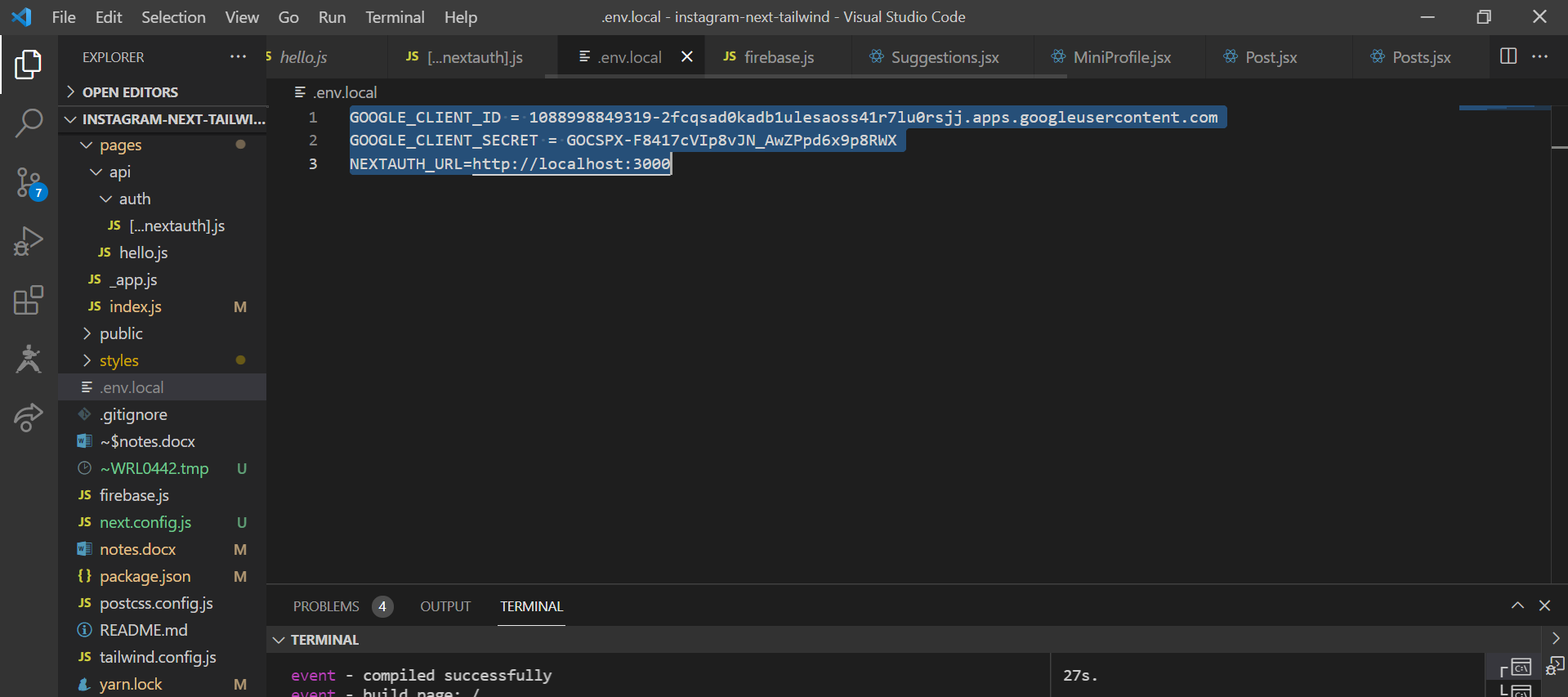
export { db, app, storage }

Then go to firebase, setup app, then go to authentication, select google, enable it, write email, and then save

Now to use client id and client secret in next auth, click on web sdk configuration after writing email on google provide on firebase and copy values from their



Now create .env.local file at root and pass client id and secret and auth url



Update nextauth.js file to have signin page:

1. Default next signin page code:

export default NextAuth({

  // Configure one or more authentication providers

  providers: [

    GoogleProvider({

      clientId: process.env.GOOGLE\_CLIENT\_ID,

      clientSecret: process.env.GOOGLE\_CLIENT\_SECRET,

    }),

    // ...add more providers here

  ],

  //code to get by default login page from auth

  theme:{

    logo: "http://links.papareact.com/sq0",

    brandColor: "#F13287",

    colorScheme: "auto"

  }

})

1. Customize signin page:

import NextAuth from "next-auth"

import GoogleProvider from "next-auth/providers/google"

import MiniProfile from "../../../components/Feed/FeedComponents/MiniProfile/MiniProfile";

export default NextAuth({

  // Configure one or more authentication providers

  providers: [

    GoogleProvider({

      clientId: process.env.GOOGLE\_CLIENT\_ID,

      clientSecret: process.env.GOOGLE\_CLIENT\_SECRET,

    }),

    // ...add more providers here

  ],

  //code to get by default login page from auth

  // theme:{

  //   logo: "http://links.papareact.com/sq0",

  //   brandColor: "#F13287",

  //   colorScheme: "auto"

  // }

  pages:{

    signIn: '/auth/signin',

  },

  callbacks:{

    async session({session, token, user}){

      session.user.username = session.user.name

      .split(' ')

      .join("")

      .toLocaleLowerCase();MiniProfile

      //Muhammad Muneeb Waseem = muhammadmuneebwaseem

      session.user.uid = token.sub;

      return session;

    }

  }

})

Creating auth folder and signin.js file as shown in above link under pages folder:

import { getProviders, signIn as SignIntoProvider } from 'next-auth/react'

import Header from '../../components/Header/Header';

//Browsers... or client

function signIn({providers}) {

    return (

    <>

        <Header/>

        <div className="flex flex-col items-center justify-center min-h-screen py-2 -mt-20 px-14 text-center">

            <img className="w-80" src="https://links.papareact.com/ocw" alt=""/>

            <p className="font-xs italic">This is not a REAL  app, it built for practice and eductational purposes only</p>

            <div className="mt-40">

                {Object.values(providers).map((provider) => (

                    <div key={provider.name}>

                    <button

                    className="p-3 bg-blue-500 rounded-lg text-white"

                    onClick={() => SignIntoProvider(provider.id, {callbackUrl: '/'})}>

                        Sign in with {provider.name}

                    </button>

                    </div>

                ))}

            </div>

        </div>

    </>

    )

}

//Server Side rendering

export async function getServerSideProps(){

    const providers = await getProviders();

    return {

        props: {

            providers

        }

    }

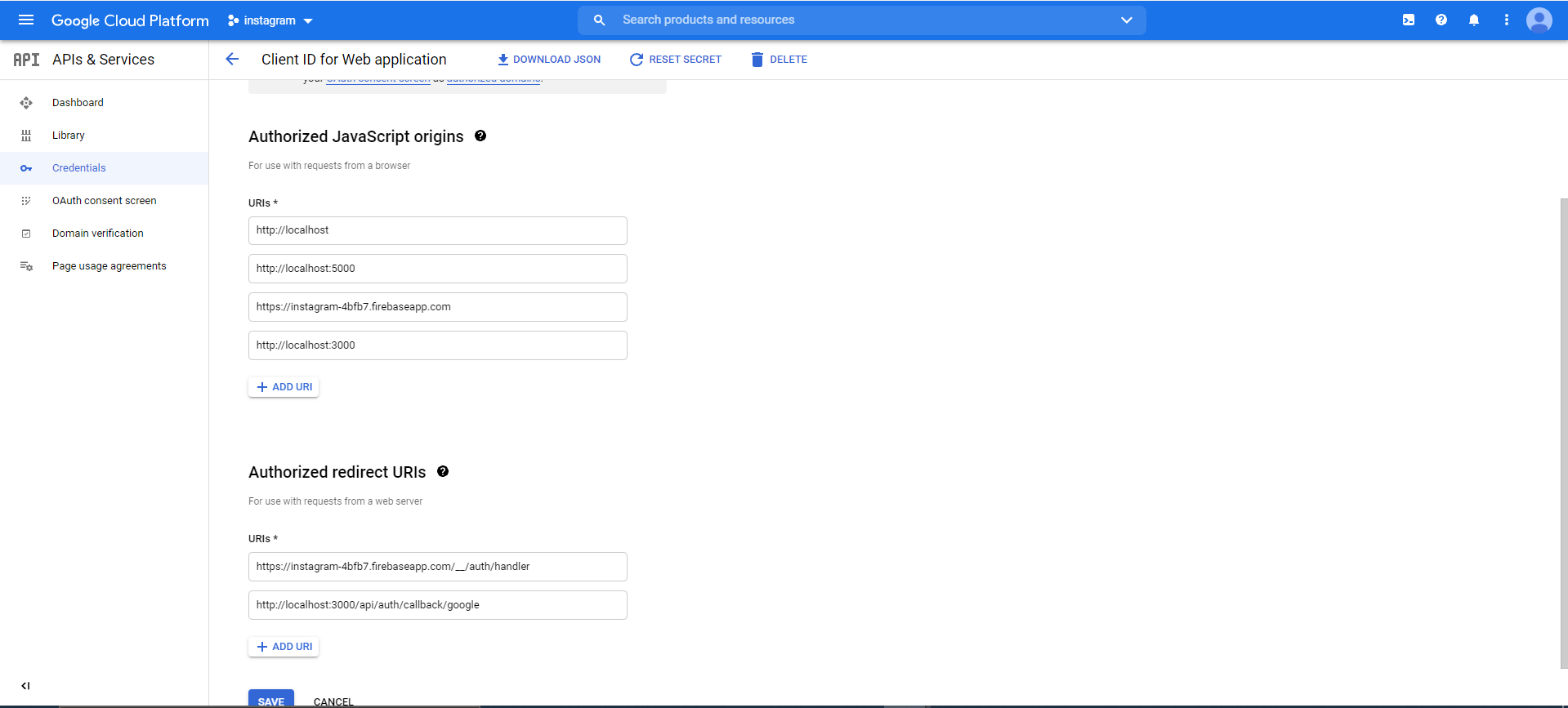
}

export default signIn

Now go to below link with the same google account as use for registering app on firebase

[Getting started – instagram – Google Cloud Platform](https://console.cloud.google.com/apis/credentials?authuser=6&project=instagram-4bfb7)

Go to oAuth 2.0 webclient and click on pencil icon to update it

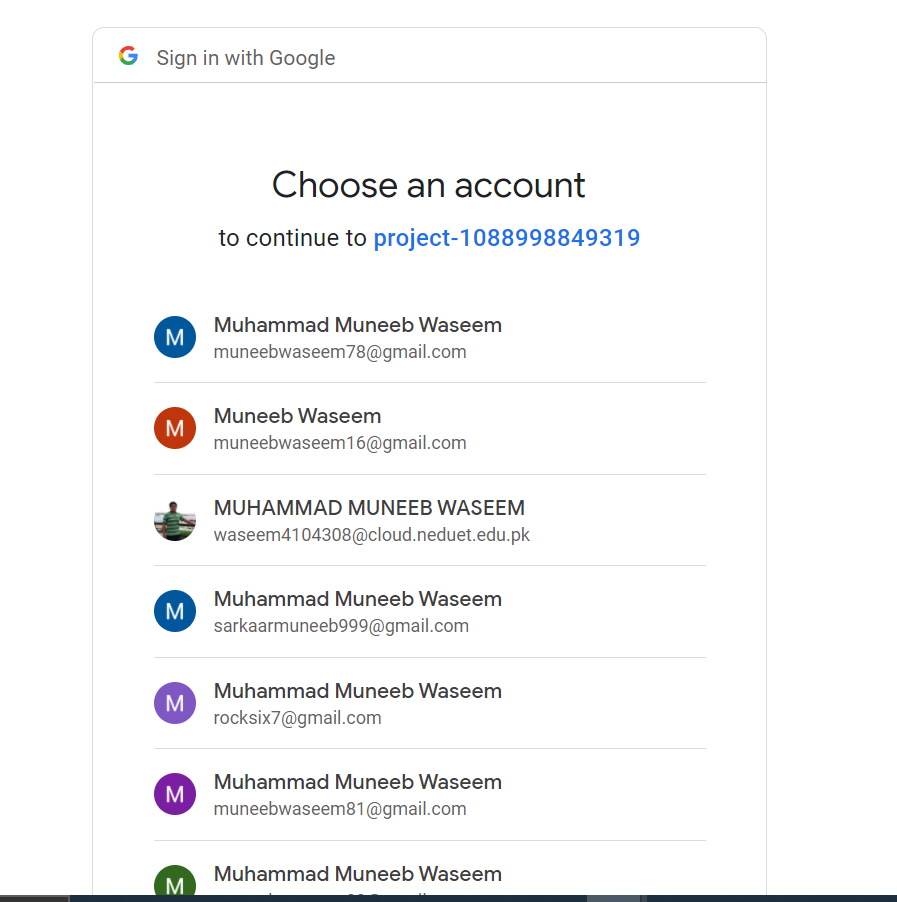


This update is for localhost, when we deploy on somehosting or vercel, we need to update localhost3000 links to that link

Now we got authorize

Sigin Link:

localhost:3000/auth/signin



Update app.js:

import '../styles/globals.css'

import { SessionaProvider } from 'next-auth/react'

function MyApp({ Component, pageProps: {session, ...pageProps} }) {

  return (

    <SessionaProvider session={session}>

      <Component {...pageProps} />

    </SessionaProvider>

  )

}

export default MyApp

Now to signout or show username image etc from session:

Const {data:session} = useSesssion() -> very imp

import { signOut, useSession } from 'next-auth/react';

function MiniProfile() {

    const { data: session } = useSession()

    console.log(session)

    return (

        <div className="flex items-center justify-between mt-14 ml-10">

            <img

             src={session?.user?.image}

             alt=""

             className="w-16 h-16 rounded-full border p-[2px]"

             />

             <div className="flex-1 mx-4">

                 <h2 className="font-bold">{session?.user?.username}</h2>

                 <h3 className="text-sm text-gray-400">Welcome to Instagram</h3>

             </div>

             <button

             className="text-blue-400 text-sm font-semibold"

             onClick={signOut}>

                Sign Out

            </button>

        </div>

    )

}

export default MiniProfile

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*END\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Next Routing:

const router = useRouter();

* First Example:

<div onClick={()=>router.push('/')}  className="relative w-10 lg:hidden flex-shrink-0 cursor-pointer">

                    <Image

                        src="https://links.papareact.com/jjm"

                        layout="fill"

                        objectFit="contain"

                    />

                </div>

* Second Example:

 <HomeIcon onClick={()=>router.push('/')} className="navBtn"/>

Recoil

Uploading image on clicking + icon at header:

It changes in global store, so we require global store. One option is redux and other one is recoil

Recoil is fast, and very light weight and by default a global store

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MAIN RECOIL START \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Surrounding the app.js as global store

<RecoilRoot>

        <Component {...pageProps} />

      </RecoilRoot>

1. Atom file just like slice in redux (create atom folder and root and modalAtom.js file in it):

import { atom } from "recoil";

export const modalState = atom({

    key: 'modalState',

    default: false,

})

1. Getting or updating data in global store using recoil

/getting and updating data in global store using recoil

    const [open, setOpen] = useRecoilState(modalState);

    //To read only from global store using recoil

    const open = useRecoilValue(modalState)

In redux, we need to use useSelector for getting data from store, and useDispatch to update data in store, but in recoil it is very simple just like simple useState

* Now using setOpen function to update state in the global store

 <PlusCircleIcon onClick={()=>setOpen(true)} className="navBtn"/>

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MAIN RECOIL END \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Now till above main recoil end, we have put logic in plus icon when someone click on it, open value becomes true and this value is stored in the global store. Now we do this to show some component when open gets true. When open gets true, we show them post upload component which Modal component in this case. So I am creating this component right now which only visible when open is true or when person click on plus icon

Update index.js to render modal component

import Head from 'next/head'

import Feed from '../components/Feed/Feed'

import Header from '../components/Header/Header'

import Modal from '../components/Modal/Modal'

export default function Home() {

  return (

    <div className="bg-gray-50 h-screen overflow-y-scroll scrollbar-auto scrollbar-hide">

      <Head>

        <title>Instagram</title>

        <link rel="icon" href="/favicon.ico" />

      </Head>

      <Header/>

      <Feed/>

      {/\*Modal\*/}

      <Modal/>

    </div>

  )

}

Creating Modal folder and Modal.js file init and using useRecoilState to get or update the data

import { useRecoilState } from "recoil"

import { modalState } from "../../atoms/modalAtome"

function Modal() {

    const [open, setOpen] = useRecoilState(modalState)

    return (

        <div>

            {open && (

                <p>I am modal</p>

            )}

        </div>

    )

}

export default Modal