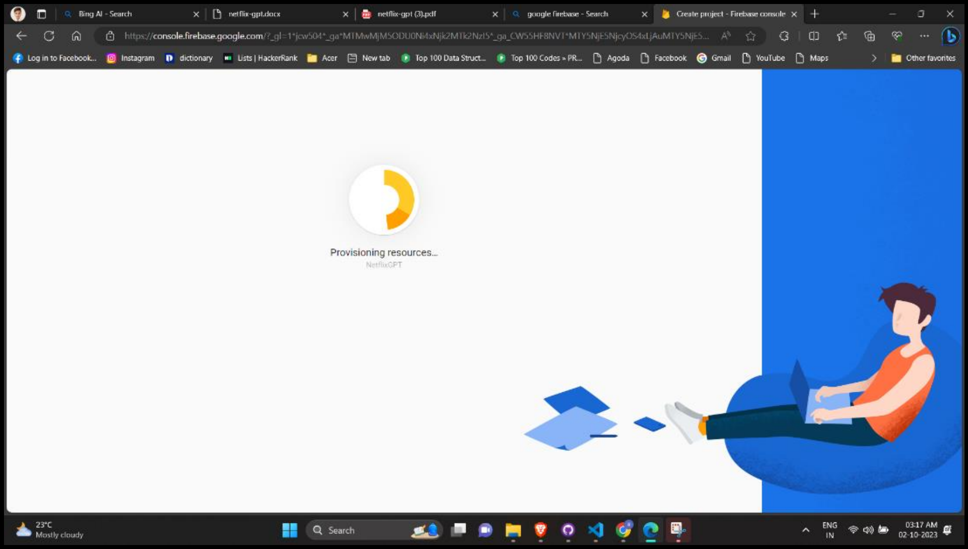
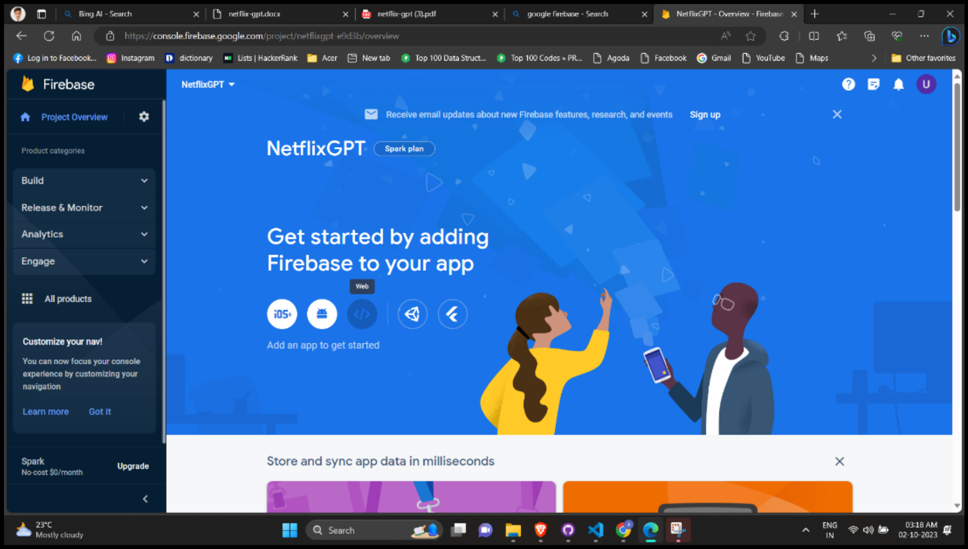
Netflix – GPT

Till now we have completed validation. Now we will go for authentication.

For building authentication I will be using google fireBase.



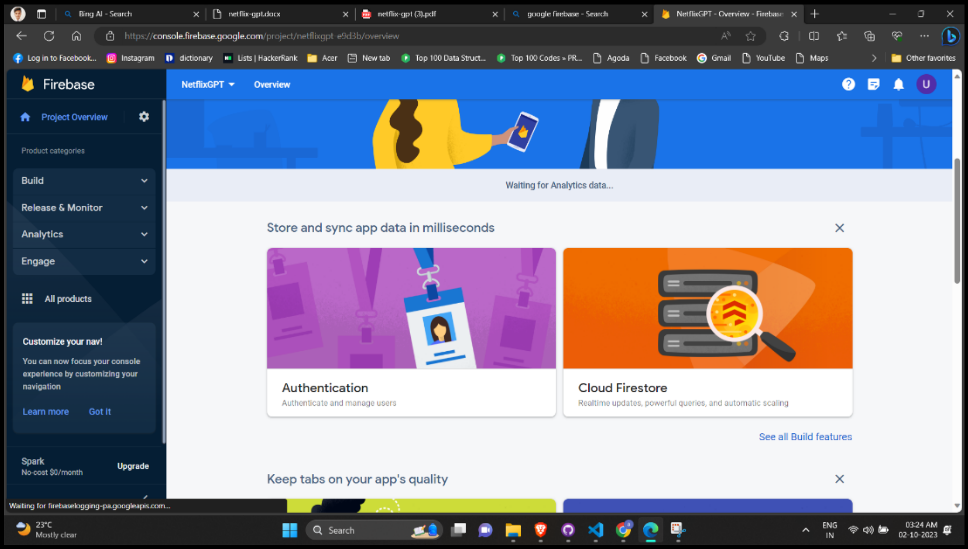
Need to create project in google firebase.


NetflixGPT - Overview - Firebase
https://console.firebase.google.com/project/netflixgpt-e9d3b/overview
Firebase
Project Overview
Product categories
Build
Release & Monitor
Analytics
Engage
All products
Customize your nav!
You can now focus your console experience by customizing your navigation
Learn more
Got it
Spark
No-cost $0/month
Upgrade
NetflixGPT
Receive email updates about new Firebase features, research, and events
Sign up
NetflixGPT
Spark plan
Get started by adding Firebase to your app
Web
iOS+
Add an app to get started
Store and sync app data in milliseconds
03:18 AM
02-10-2023

Go to web

Create a project .

Serach for authentication



https://console.firebase.google.com/project/netflixgpt-e9d3b/overview

Customize your nav!

You can now focus your console experience by customizing your navigation

Waiting for Analytics data...

Store and sync app data in milliseconds

Authentication
Authenticate and manage users

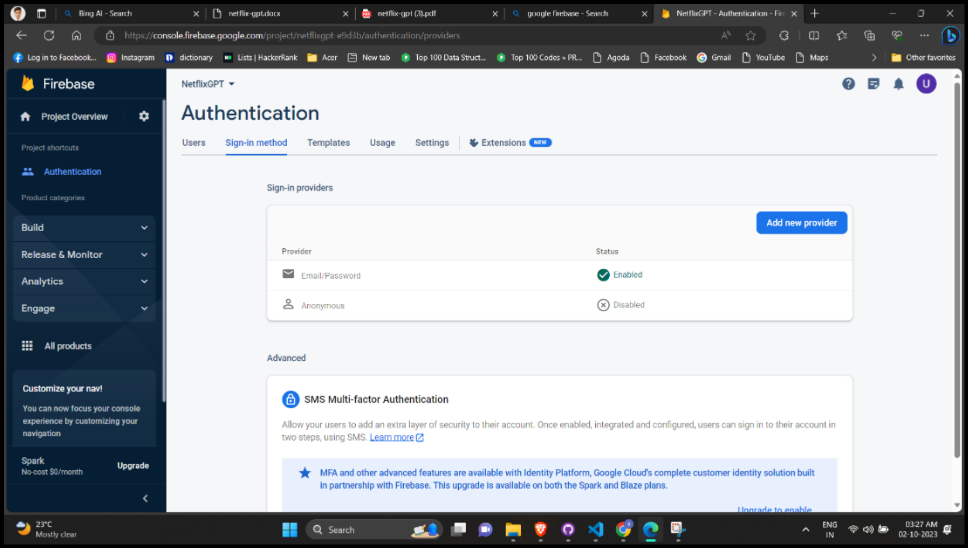
Cloud Firestore
Realtime updates, powerful queries, and automatic scaling

See all Build features

Keep tabs on your app's quality

Waiting for firebaselogging-pa.googleapis.com...

Enable gmail



https://console.firebase.google.com/project/netflixgpt-e9d3b/authentication/providers

Customize your nav!

You can now focus your console experience by customizing your navigation

Authentication

Users | Sign-in method | Templates | Usage | Settings | Extensions NEW

Sign-in providers

Add new provider

Provider	Status
Email/Password	Enabled
Anonymous	Disabled

Advanced

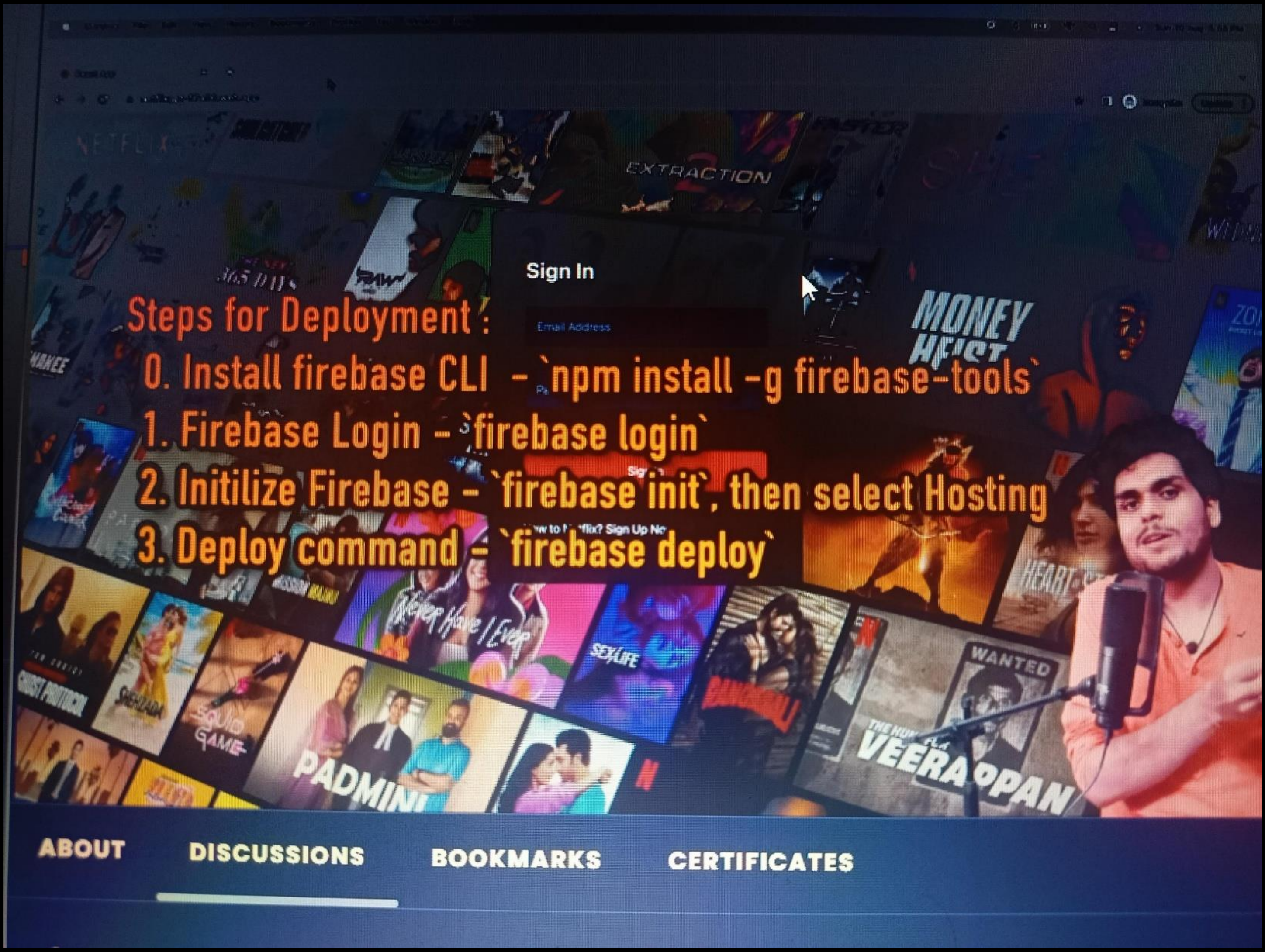
SMS Multi-factor Authentication

Allow your users to add an extra layer of security to their account. Once enabled, integrated and configured, users can sign in to their account in two steps, using SMS. Learn more

MFA and other advanced features are available with Identity Platform, Google Cloud's complete customer identity solution built in partnership with Firebase. This upgrade is available on both the Spark and Blaze plans.

Upgrade to enable

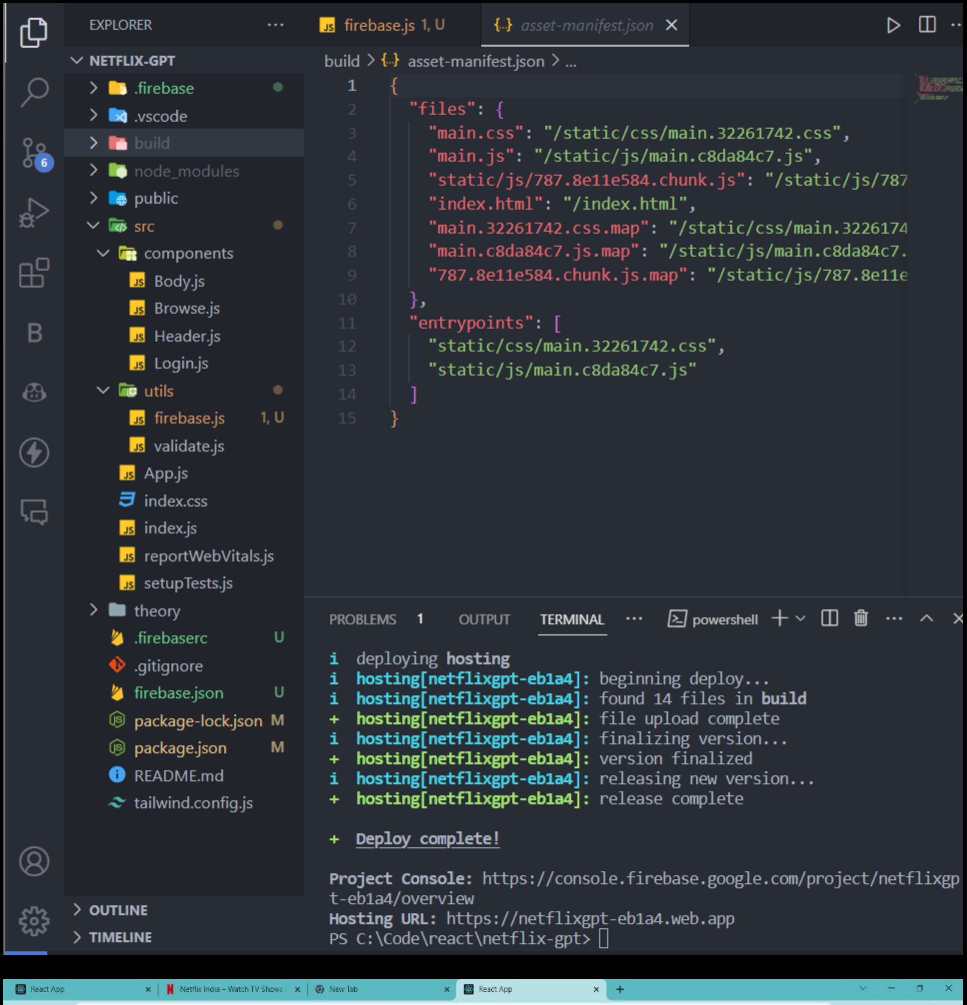
Once anyone sign up it will show in users.



Steps for Deployment :

0. Install firebase CLI - `npm install -g firebase-tools`
1. Firebase Login - `firebase login`
2. Initilize Firebase - `firebase init`, then select Hosting
3. Deploy command - `firebase deploy`

Succesfuly deployed on firebase.

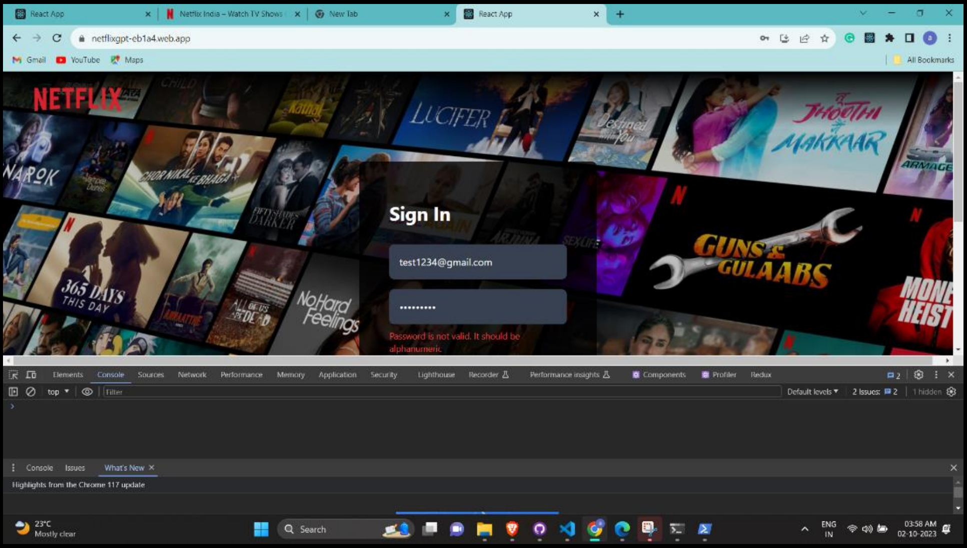


```
{
  "files": {
    "main.css": "/static/css/main.32261742.css",
    "main.js": "/static/js/main.c8da84c7.js",
    "static/js/787.8e11e584.chunk.js": "/static/js/787
    "index.html": "/index.html",
    "main.32261742.css.map": "/static/css/main.3226174
    "main.c8da84c7.js.map": "/static/js/main.c8da84c7.
    "787.8e11e584.chunk.js.map": "/static/js/787.8e11e
  },
  "entrypoints": [
    "static/css/main.32261742.css",
    "static/js/main.c8da84c7.js"
  ]
}
```

```
i  deploying hosting
i  hosting[netflixgpt-eb1a4]: beginning deploy...
i  hosting[netflixgpt-eb1a4]: found 14 files in build
+  hosting[netflixgpt-eb1a4]: file upload complete
i  hosting[netflixgpt-eb1a4]: finalizing version...
+  hosting[netflixgpt-eb1a4]: version finalized
i  hosting[netflixgpt-eb1a4]: releasing new version...
+  hosting[netflixgpt-eb1a4]: release complete

+  Deploy complete!

Project Console: https://console.firebase.google.com/project/netflixgp
t-eb1a4/overview
Hosting URL: https://netflixgpt-eb1a4.web.app
PS C:\Code\react\netflix-gpt> 
```



test1234@gmail.com

•••••••••

Password is not valid. It should be alphanumeric

Now lets go back and try to create our first user from localhost only

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For this first we need to get the firebase api for password authentication.

```
  const handleButtonClick = () => {

    const message = checkSignInData(email.current.value , password.current.value)
    setErrorMessage(message);
    if(message) return;

    if (!isSignInForm) {
      // sign up
      createUserWithEmailAndPassword(auth, email.current.value , password.current.value)
      .then((userCredential) => {
        // Signed up
        const user = userCredential.user;
        console.log(user)
        // ...
      })
      .catch((error) => {
        const errorCode = error.code;
        const errorMessage = error.message;
        setErrorMessage(errorCode+ "-" + errorMessage)

        // ..
      });
    }
    else{
      // sign in
      signInWithEmailAndPassword(auth, email.current.value , password.current.value)
      .then((userCredential) => {
        // Signed in
        const user = userCredential.user;
        console.log(user)
        // ...
      })
      .catch((error) => {
        const errorCode = error.code;
        const errorMessage = error.message;
        setErrorMessage(errorCode+ "-" + errorMessage)
      });

    }
  };
```

This is the api which is given to us by the firebase.

Oncev you login t5o the form , you can go and check in the firebase , uor name will be registered.

Also in netwrk call also you can check , there is a api call – 200 = ok .

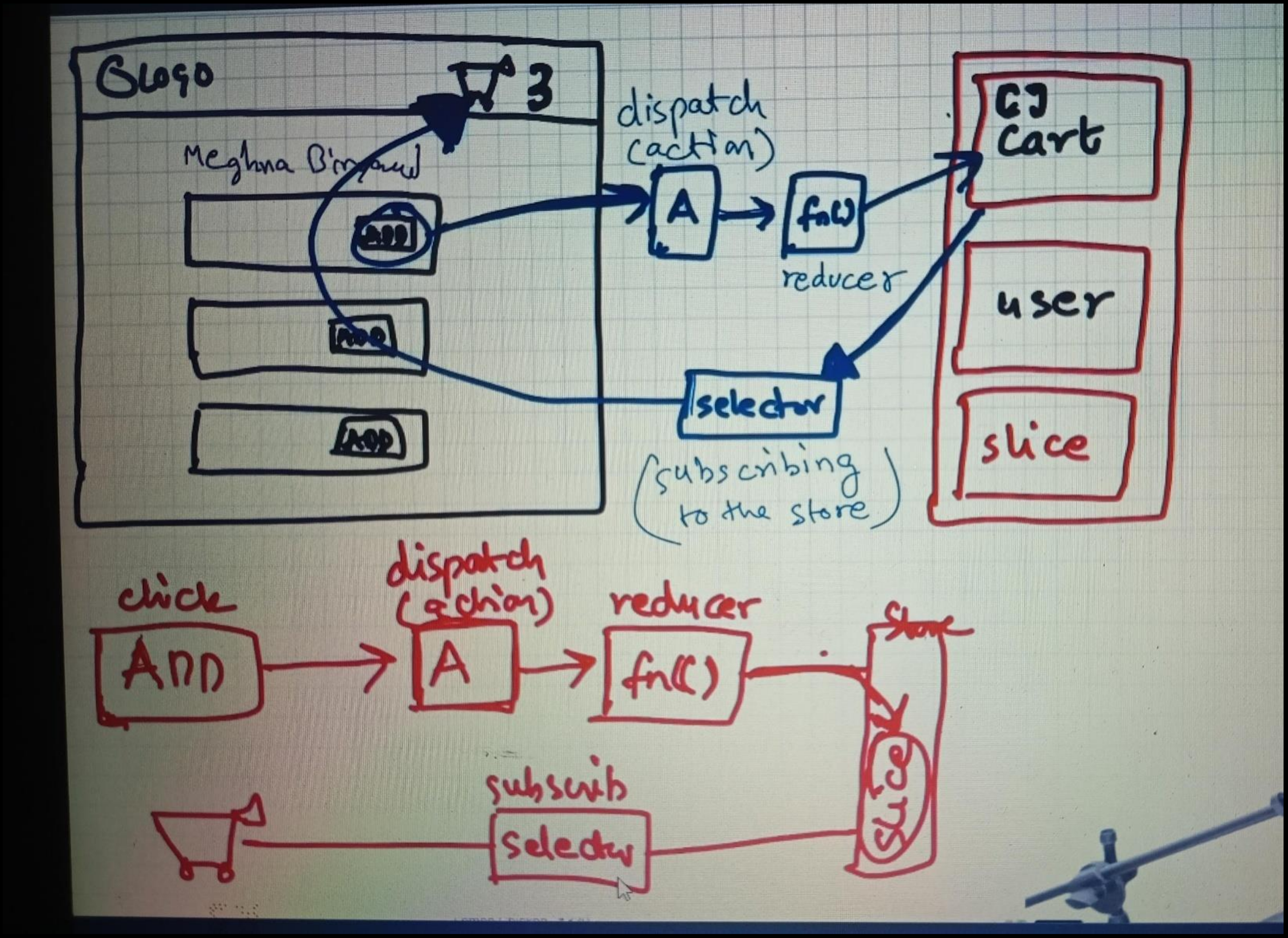
Also in console.log user will be shown.

---Commit 5 Done

Redux

npm i -D @reduxjs/toolkit

Npm I react-redux



Redux flow:

```
import { configureStore } from "@reduxjs/toolkit";
const appStore = configureStore(
    {
        reducer: {
            // reducers
        }
    }
);
export default appStore
```

So first I created the appStore – to have all the clices.

```
// create a userslice with addUser and removeUser
import { createSlice } from "@reduxjs/toolkit";
const userSlice = createSlice({
    name: "user",
    initialState: {
        user: null,
    },
    reducers: {
        addUser: (state, action) => {
            state.user = action.payload;
        },
        removeUser: (state , action) => {
                return null;
        },
    },
});
export const {addUser,removeUser} = userSlice.actions
export default userSlice.reducer
```

Created the slice with reducer functionalities . Provide this to appStore.

```
import { configureStore } from "@reduxjs/toolkit";
import userReducer from "./userSlice";
const appStore = configureStore(
    {
        reducer: {
            // reducers
            user:userReducer ,
        }
    });
export default appStore
```

Now we need to provide this to the root of my application where components are being rendered.

There is some issue my appStore not working so I created netflixStore.

```
import { Provider } from 'react-redux';
import Body from './components/Body';
import appStore from './utils/netflixStore';
function App() {
  return (
      <div>
        <Provider store={appStore}>
          <Body/>
        </Provider>
      </div>
  );
}
export default App;
```

Wrap the body with provider so that it can subscribe to the store there by gaining access to data

Till now -

-Create React App

-Configured TailwindCSS

- Header

-Routing of App - Login Form

-Sign up Form

-Form Validation

-useRef Hook

-Firebase Setup

-Deploying our app to production Create SignUp User Account

-Implement Sign In user Api

-Created Redux Store with userSlice

Now we have redux state functionalities.

I can try updating my users state with the function sign in and sign up .

But then again I have to write function inside both of them right.

So instead of doing that I will use a functionality given to us by fireBase.

OnAuthStateChange – whenever user sign in , sign out , any state change – kind of like event listner.

For this go to manage User in firebase.

Get the api.

For this api I want to execute only once not everytime right so I am putting this in useEffect.

```
  useEffect(() => {
    onAuthStateChanged(auth, (user) => {
      if (user) {
        // User is signed in, see docs for a list of available properties
        // https://firebase.google.com/docs/reference/js/auth.user
        const {uid , email, displayName} = user;
        dispatch(addUser({uid:uid,email:email,displayName:displayName}));
        navigate("/browse")

      } else {
        // User is signed out
        dispatch(removeUser())
        navigate("/")
      }
});

  },[])
```

We already know [] means only once it will be called.

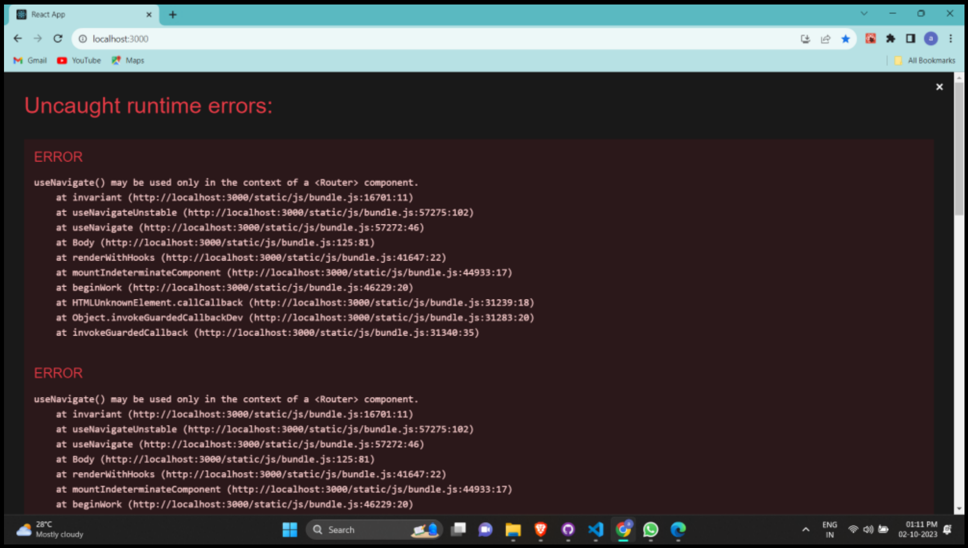
Let me tell u how dispatch and navigate are used.

Ddispatch should be called with appropriate action depending on signup or sign in or sign out.

If authentication is successful – then add user to the store .

```
const dispatch = useDispatch();
const navigate = useNavigate();
```

Use navigate basically takes the path that we will follow once dispatch method completes.

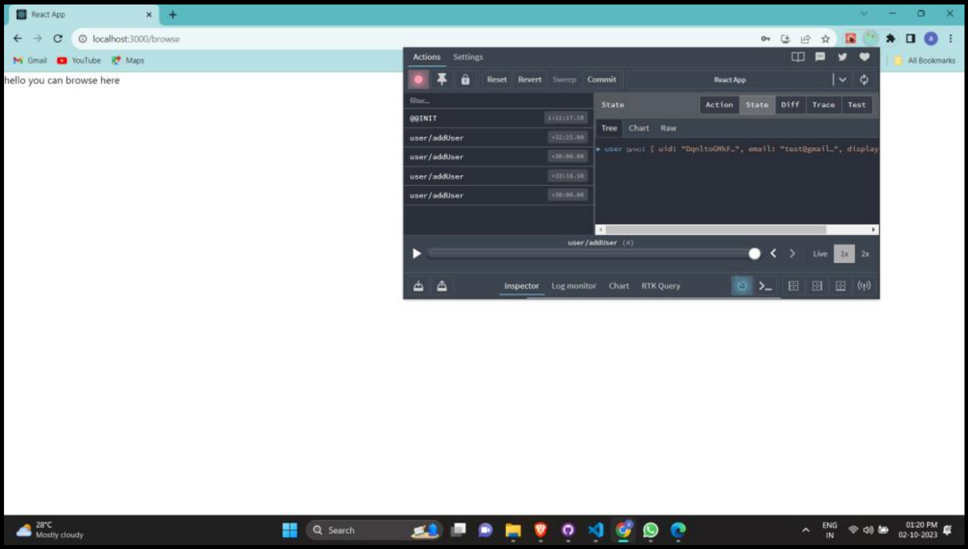


Uncaught runtime errors:

```
ERROR

useNavigate() may be used only in the context of a <Router> component.
    at invariant (http://localhost:3000/static/js/bundle.js:16701:11)
    at useNavigateUnstable (http://localhost:3000/static/js/bundle.js:57275:102)
    at useNavigate (http://localhost:3000/static/js/bundle.js:57272:46)
    at Body (http://localhost:3000/static/js/bundle.js:125:81)
    at renderWithHooks (http://localhost:3000/static/js/bundle.js:41647:22)
    at mountIndeterminateComponent (http://localhost:3000/static/js/bundle.js:44933:17)
    at beginWork (http://localhost:3000/static/js/bundle.js:46229:20)
    at HTMLUnknownElement.callCallback (http://localhost:3000/static/js/bundle.js:31239:18)
    at Object.invokeGuardedCallbackDev (http://localhost:3000/static/js/bundle.js:31283:20)
    at invokeGuardedCallback (http://localhost:3000/static/js/bundle.js:31340:35)

ERROR

useNavigate() may be used only in the context of a <Router> component.
    at invariant (http://localhost:3000/static/js/bundle.js:16701:11)
    at useNavigateUnstable (http://localhost:3000/static/js/bundle.js:57275:102)
    at useNavigate (http://localhost:3000/static/js/bundle.js:57272:46)
    at Body (http://localhost:3000/static/js/bundle.js:125:81)
    at renderWithHooks (http://localhost:3000/static/js/bundle.js:41647:22)
    at mountIndeterminateComponent (http://localhost:3000/static/js/bundle.js:44933:17)
    at beginWork (http://localhost:3000/static/js/bundle.js:46229:20)
```

But I can not use navigate outside.

So i will just put navigate inside sign up and sign in.



hello you can browse here

```
@@INIT            1:11:17.18
user/addUser      +32:25.00
user/addUser      +38:00.00
user/addUser      +33:16.58
user/addUser      +38:00.00
```

```
▸ user (pin): { uid: "DqnltoGMkF…", email: "test@gmail…", display
```

user/addUser (4)

Once I do that I am successfully able to go to browse page once I sign in correctly.