Authentification Login avec Reactjs

Front end Reactjs

Pour créer un module d'authentification dans React.js, nous allons suivre les étapes suivantes :

1. Installer les dépendances nécessaires : Nous allons installer les packages suivants :

- axios : Pour effectuer des requêtes HTTP depuis le frontend

- react-router-dom : Pour gérer les routes

- jwt-decode : Pour décoder le token JWT après l'authentification Nous pouvons

exécuter la commande suivante pour installer ces packages :

npm install axios react-router-dom

Axios/Api.js

```
import axios from "axios";
axios.defaults.baseURL = 'https://backend2023-eta.vercel.app/api';
axios.interceptors.request.use(
config => {
const token = localStorage.getItem("CC_Token")
if (token) {
config.headers['Authorization'] = 'Bearer ' + token;
}
return config;
},
error => {
Promise.reject(error)
});
export default axios;
```

Créer le service services/Authservice.js

```
import Api from '../Axios/Api';
const USER_API="/users"
export const signup =async(user)=> {
return await Api.post(USER_API + "/register",user);
```

```
}
export const signin=async(user)=> {
return await Api.post(USER_API+"/login", user);
}
```

Fichier src/features/AuthSlice.js

```
import { createSlice, createAsyncThunk } from "@reduxjs/toolkit"
import {signup,signin} from "../services/Authservice";
export const register = createAsyncThunk(
"auth/register",
async (user, thunkAPI) => {
const { rejectWithValue } = thunkAPI;
try{
const res= await signup(user);
return res.data
}
catch (error) {
return rejectWithValue(error.message);
}});

export const login = createAsyncThunk(
"auth/login",
    async (user, thunkAPI) => {
    try {
    const res = await signin(user);
    return res.data ;
    } catch (error) {

        return thunkAPI.rejectWithValue();
}});

export const logout = createAsyncThunk("auth/logout", () => {
localStorage.removeItem("CC_Token");
});

export const authSlice = createSlice({
    name: "auth",
    initialState: {
    user:null,
    isLoading: false,
    isSuccess: false,
    isError: false,
    errorMessage: "",
    isLoggedIn:false,
},
```

```javascript
reducers: {
    // Reducer comes here
    reset:(state)=>{
    state.isLoading=false
    state.isSuccess=false
    state.isError=false
    state.errorMessage=""
    state.isLoggedIn=false
    }
    },
    extraReducers: (builder) => {
        //get articles
    builder
    //insertion user
    .addCase(register.pending, (state, action) => {
    state.isLoading=true;
    state.status=null;
    })
    .addCase(register.fulfilled,(state, action) => {
        state.user=action.payload;
        state.isLoading=false;
        state.status=null;
        state.isSuccess=true
        })
    .addCase(register.rejected,(state, action) => {
        state.isLoading=false;
        state.isError=true
        state.status=action.payload;
        state.user=null
        })
    .addCase(login.pending, (state, action) => {
        state.isLoading=true;
        state.status=null;
            })
    .addCase(login.fulfilled, (state, action) => {
 state.isLoggedIn = true;
        state.isSuccess= true;
        console.log(action.payload);
         state.user = action.payload.user;
         localStorage.setItem("CC_Token",action.payload.accessToken);
         console.log( localStorage.getItem("CC_Token"))

        })
    .addCase(login.rejected, (state, action) => {
        state.isLoggedIn = false;
        state.user = null;
        })
```

```
    .addCase(logout.fulfilled, (state, action) => {
        state.isLoggedIn = false;
        state.user = null;
        })


        }}
)
        export const {reset} =authSlice.actions
        export default authSlice.reducer;
```

Fichier src/redux/store.js

```
import { configureStore } from '@reduxjs/toolkit'
import articlesReducer from "../features/articleSlice"
import authReducer from "../features/AuthSlice"
 const store = configureStore({
  reducer: {
    storearticles:articlesReducer,
    auth:authReducer
  }
})
export default store
```

2- Créer les composants de connexion et d'inscription :

Nous allons créer deux composants pour permettre à l'utilisateur de se connecter ou de s'inscrire :

- Composant Login
- Composant Register

Références :

Thème d'origine du formulaire :

https://mui.com/material-ui/getting-started/templates/

Personnaliser les couleurs dans mui :

https://mui.com/material-ui/customization/palette/#adding-new-colors

Les icônes :

https://mui.com/material-ui/material-icons

Fichier components/admin/Login.js

```javascript
import * as React from 'react';
import Avatar from '@mui/material/Avatar';
import Button from '@mui/material/Button';
import CssBaseline from '@mui/material/CssBaseline';
import TextField from '@mui/material/TextField';
import FormControlLabel from '@mui/material/FormControlLabel';
import Checkbox from '@mui/material/Checkbox';
import Link from '@mui/material/Link';
import Grid from '@mui/material/Grid';
import Box from '@mui/material/Box';
import LockOutlinedIcon from '@mui/icons-material/LockOutlined';
import Typography from '@mui/material/Typography';
import Container from '@mui/material/Container';
import { createTheme, ThemeProvider } from '@mui/material/styles';

function Copyright(props) {
  return (
    <Typography variant="body2" color="text.secondary" align="center"
{...props}>
      {'Copyright © '}
      <Link color="inherit" href="https://mui.com/">
        Your Website
      </Link>{' '}
      {new Date().getFullYear()}
      {'.'}
    </Typography>
  );
}

const theme = createTheme();

export default function Login() {
  const handleSubmit = (event) => {
    event.preventDefault();
    const data = new FormData(event.currentTarget);
    console.log({
      email: data.get('email'),
      password: data.get('password'),
    });
  };

  return (
    <ThemeProvider theme={theme}>
      <Container component="main" maxWidth="xs">
        <CssBaseline />
        <Box
          sx={{
```

```
          marginTop: 8,
          display: 'flex',
          flexDirection: 'column',
          alignItems: 'center',
        }}
      >
        <Avatar sx={{ m: 1, bgcolor: 'secondary.main' }}>
          <LockOutlinedIcon />
        </Avatar>
        <Typography component="h1" variant="h5">
          Sign in
        </Typography>
        <Box component="form" onSubmit={handleSubmit} noValidate sx={{ mt: 1
}}>
          <TextField
            margin="normal"
            required
            fullWidth
            id="email"
            label="Email Address"
            name="email"
            autoComplete="email"
            autoFocus
          />
          <TextField
            margin="normal"
            required
            fullWidth
            name="password"
            label="Password"
            type="password"
            id="password"
            autoComplete="current-password"
          />
          <FormControlLabel
            control={<Checkbox value="remember" color="primary" />}
            label="Remember me"
          />
          <Button
            type="submit"
            fullWidth
            variant="contained"
            sx={{ mt: 3, mb: 2 }}
          >
            Sign In
          </Button>
          <Grid container>
            <Grid item xs>
              <Link href="#" variant="body2">
```

```
                    Forgot password?
              </Link>
            </Grid>
            <Grid item>
              <Link href="#" variant="body2">
                {"Don't have an account? Sign Up"}
              </Link>
            </Grid>
          </Grid>
        </Box>
      </Box>
      <Copyright sx={{ mt: 8, mb: 4 }} />
    </Container>
  </ThemeProvider>
  );
}
```

Fichier components/admin/Logout.js

```
import {useEffect} from 'react';

import { useNavigate} from 'react-router-dom'

import { useDispatch} from "react-redux";

import { logout, reset } from "../../features/AuthSlice";

const Logout = () => {

const dispatch = useDispatch();

const navigate = useNavigate();


useEffect(() => {

    dispatch(logout())

.then(() => {

navigate("/login");

});

}, []);

return (

<div>

</div>

)

};

export default Logout;
```

Components/admin/Register.js

```
import * as React from 'react';
import Avatar from '@mui/material/Avatar';
import Button from '@mui/material/Button';
import CssBaseline from '@mui/material/CssBaseline';
import TextField from '@mui/material/TextField';
import FormControlLabel from '@mui/material/FormControlLabel';
import Checkbox from '@mui/material/Checkbox';
import Link from '@mui/material/Link';
import Grid from '@mui/material/Grid';
import Box from '@mui/material/Box';
import LockOutlinedIcon from '@mui/icons-material/LockOutlined';
import Typography from '@mui/material/Typography';
import Container from '@mui/material/Container';
import { createTheme, ThemeProvider } from '@mui/material/styles';

function Copyright(props) {
  return (
    <Typography variant="body2" color="text.secondary" align="center"
{...props}>
      {'Copyright © '}
      <Link color="inherit" href="https://mui.com/">
        Your Website
      </Link>{' '}
      {new Date().getFullYear()}
      {'.'}
    </Typography>
  );
}

const theme = createTheme();

export default function Register() {
  const handleSubmit = (event) => {
    event.preventDefault();
    const data = new FormData(event.currentTarget);
    console.log({
      email: data.get('email'),
      password: data.get('password'),
    });
  };

  return (
    <ThemeProvider theme={theme}>
      <Container component="main" maxWidth="xs">
```

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```jsx
      <CssBaseline />
      <Box
        sx={{
          marginTop: 8,
          display: 'flex',
          flexDirection: 'column',
          alignItems: 'center',
        }}
      >
        <Avatar sx={{ m: 1, bgcolor: 'secondary.main' }}>
          <LockOutlinedIcon />
        </Avatar>
        <Typography component="h1" variant="h5">
          Sign up
        </Typography>
        <Box component="form" noValidate onSubmit={handleSubmit} sx={{ mt: 3
}}>
          <Grid container spacing={2}>
            <Grid item xs={12} sm={6}>
              <TextField
                autoComplete="given-name"
                name="firstName"
                required
                fullWidth
                id="firstName"
                label="First Name"
                autoFocus
              />
            </Grid>
            <Grid item xs={12} sm={6}>
              <TextField
                required
                fullWidth
                id="lastName"
                label="Last Name"
                name="lastName"
                autoComplete="family-name"
              />
            </Grid>
            <Grid item xs={12}>
              <TextField
                required
                fullWidth
                id="email"
                label="Email Address"
                name="email"
                autoComplete="email"
              />
            </Grid>
```

```jsx
              <Grid item xs={12}>
                <TextField
                  required
                  fullWidth
                  name="password"
                  label="Password"
                  type="password"
                  id="password"
                  autoComplete="new-password"
                />
              </Grid>
              <Grid item xs={12}>
                <FormControlLabel
                  control={<Checkbox value="allowExtraEmails" color="primary" />}
                  label="I want to receive inspiration, marketing promotions and updates via email."
                />
              </Grid>
            </Grid>
            <Button
              type="submit"
              fullWidth
              variant="contained"
              sx={{ mt: 3, mb: 2 }}
            >
              Sign Up
            </Button>
            <Grid container justifyContent="flex-end">
              <Grid item>
                <Link href="#" variant="body2">
                  Already have an account? Sign in
                </Link>
              </Grid>
            </Grid>
          </Box>
        </Box>
        <Copyright sx={{ mt: 5 }} />
      </Container>
    </ThemeProvider>
  );
}
```

Fichier Register.js finalisé

```javascript
import React, { useState,useEffect } from "react";
import { useNavigate } from "react-router-dom";
import { register,reset } from "../../features/AuthSlice";
import { useDispatch,useSelector } from "react-redux";
import Avatar from '@mui/material/Avatar';
import Button from '@mui/material/Button';
import CssBaseline from '@mui/material/CssBaseline';
import TextField from '@mui/material/TextField';
import FormControlLabel from '@mui/material/FormControlLabel';
import Checkbox from '@mui/material/Checkbox';
import Link from '@mui/material/Link';
import Grid from '@mui/material/Grid';
import Box from '@mui/material/Box';
import LockOutlinedIcon from '@mui/icons-material/LockOutlined';
import Typography from '@mui/material/Typography';
import Container from '@mui/material/Container';
import { createTheme, ThemeProvider } from '@mui/material/styles';

function Copyright(props) {
  return (
    <Typography variant="body2" color="text.secondary" align="center"
{...props}>
      {'Copyright © '}
      <Link color="inherit" href="https://mui.com/">
        Your Website
      </Link>{' '}
      {new Date().getFullYear()}
      {'.'}
    </Typography>
  );
}

const theme = createTheme();

export default function Register() {

  const navigate = useNavigate()
  const dispatch = useDispatch();
  const [firstName,setFirstName]=useState("")
  const [lastName,setLastName]=useState("")
  const [email, setEmail] = useState("");
  const [password, setPassword] = useState("");
  const [password2, setPassword2] = useState("");

  const {user,isSuccess, isError} =useSelector((state) => state.auth);
```

```
  const handleSubmit = (e) => {
    e.preventDefault()
if (password !== password2) {
alert('Passwords do not match')
} else {
const userData = {
firstname:firstName,
lastname:lastName,
email:email,
password:password
}
dispatch(register(userData))

}
navigate('/login')
};

  return (
    <ThemeProvider theme={theme}>
      <Container component="main" maxWidth="xs">
        <CssBaseline />
        <Box
          sx={{
            marginTop: 8,
            display: 'flex',
            flexDirection: 'column',
            alignItems: 'center',
          }}
        >
          <Avatar sx={{ m: 1, bgcolor: 'secondary.main' }}>
            <LockOutlinedIcon />
          </Avatar>
          <Typography component="h1" variant="h5">
            Sign up
          </Typography>
          <Box component="form" noValidate onSubmit={handleSubmit} sx={{ mt: 3
}}>
            <Grid container spacing={2}>
              <Grid item xs={12} sm={6}>
                <TextField
                  autoComplete="given-name"
                  name="firstName"
                  required
                  fullWidth
                  id="firstName"
                  label="First Name"
                  autoFocus
                  onChange={(event)=>setFirstName(event.target.value)}
                />
```

```jsx
              </Grid>
              <Grid item xs={12} sm={6}>
                <TextField
                  required
                  fullWidth
                  id="lastName"
                  label="Last Name"
                  name="lastName"
                  autoComplete="family-name"
                  onChange={(event)=>setLastName(event.target.value)}
                />
              </Grid>
              <Grid item xs={12}>
                <TextField
                  required
                  fullWidth
                  id="email"
                  label="Email Address"
                  name="email"
                  autoComplete="email"
                  onChange={(event)=>setEmail(event.target.value)}
                />
              </Grid>
              <Grid item xs={12}>
                <TextField
                  required
                  fullWidth
                  name="password"
                  label="Password"
                  type="password"
                  id="password"
                  autoComplete="new-password"
                  onChange={(event)=>setPassword(event.target.value)}
                />
              </Grid>
              <Grid item xs={12}>
                <TextField
                  required
                  fullWidth
                  name="password2"
                  label="Retype Password"
                  type="password"
                  id="password2"
                  autoComplete="new-password"
                  onChange={(event)=>setPassword2(event.target.value)}
                />
              </Grid>
              <Grid item xs={12}>
                <FormControlLabel
```

```
                control={<Checkbox value="allowExtraEmails" color="primary"
/>}
                label="I want to receive inspiration, marketing promotions
and updates via email."
              />
            </Grid>
          </Grid>
          <Button
            type="submit"
            fullWidth
            variant="contained"
            sx={{ mt: 3, mb: 2 }}
            onClick={(event)=>handleSubmit(event)}
          >
            Sign Up
          </Button>
          <Grid container justifyContent="flex-end">
            <Grid item>
              <Link href="#" variant="body2">
                Already have an account? Sign in
              </Link>
            </Grid>
          </Grid>
        </Box>
      </Box>
      <Copyright sx={{ mt: 5 }} />
    </Container>
  </ThemeProvider>
  );
}
```

Fichier src/App.js

Ajouter les routes des deux composants dans le fichier app.js

```
import {Routes,Route} from "react-router-dom"
import Listarticles from './components/articles/Listarticles';
import Insertarticle from './components/articles/Insertarticle';
import Editarticle from './components/articles/Editarticle';
import Listcategories from './components/categories/Listcategories';
import Insertcategorie from './components/categories/Insertcategorie';
import Editcategorie from './components/categories/Editcategorie';
import Listscategories from './components/scategories/Listscategories';
import Insertscategorie from './components/scategories/Insertscategorie';
import 'bootstrap/dist/css/bootstrap.min.css';
import Editscategorie from './components/scategories/Editscategorie';
```

```
import Login from "./components/admin/Login"
import Logout from "./components/admin/Logout"
import Register from "./components/admin/Register"
import  Menu  from "./components/Menu";

function App() {
  return (
    <>
    <Menu/>
<Routes>
<Route path="/articles" exact element={<Listarticles/>}/>
<Route path="/articles/add" element={<Insertarticle/>}/>
<Route path="/article/edit/:id" element={<Editarticle/>}/>
<Route path="/categories" exact element={<Listcategories/>}/>
<Route path="/categories/add" element={<Insertcategorie/>}/>
<Route path="/categories/edit/:id" element={<Editcategorie/>}/>
<Route path="/scategories" exact element={<Listscategories/>}/>
<Route path="/scategories/add" element={<Insertscategorie/>}/>
<Route path="/scategories/edit/:id" element={<Editscategorie/>}/>
<Route path="/login" element={<Login/>}/>
<Route path="/logout" element={<Logout/>}/>
<Route path="/register" element={<Register/>}/>
</Routes>
</>
  );
}
export default App;
```

Fichier App.js

```
import {Routes,Route} from "react-router-dom"
import Listarticles from './components/articles/Listarticles';
import Insertarticle from './components/articles/Insertarticle';
import Editarticle from './components/articles/Editarticle';
import Listcategories from './components/categories/Listcategories';
import Insertcategorie from './components/categories/Insertcategorie';
import Editcategorie from './components/categories/Editcategorie';
import Listscategories from './components/scategories/Listscategories';
import Insertscategorie from './components/scategories/Insertscategorie';
import 'bootstrap/dist/css/bootstrap.min.css';
import Editscategorie from './components/scategories/Editscategorie';
import Login from "./components/admin/Login"
import Logout from "./components/admin/Logout"
import Register from "./components/admin/Register"
import { useSelector } from "react-redux";
```

```
import  Menu  from "./components/Menu";

function App() {
  const { isLoggedIn } = useSelector((state) => state.auth)
  return (
    <>
    {isLoggedIn? <Menu /> :<Login/> }
<Routes>
<Route path="/home" exact element={<Menu/>}/>
<Route path="/articles" exact element={<Listarticles/>}/>
<Route path="/articles/add" element={<Insertarticle/>}/>
<Route path="/article/edit/:id" element={<Editarticle/>}/>
<Route path="/categories" exact element={<Listcategories/>}/>
<Route path="/categories/add" element={<Insertcategorie/>}/>
<Route path="/categories/edit/:id" element={<Editcategorie/>}/>
<Route path="/scategories" exact element={<Listscategories/>}/>
<Route path="/scategories/add" element={<Insertscategorie/>}/>
<Route path="/scategories/edit/:id" element={<Editscategorie/>}/>

<Route path="/login" element={<Login/>}/>
<Route path="/logout" element={<Logout/>}/>
<Route path="/register" element={<Register/>}/>
</Routes>
</>
  );
}

export default App;
```

Alerte

https://github.com/sweetalert2/sweetalert2-react-content

npm install --save sweetalert2 sweetalert2-react-content

dans le fichier Authlice.js

```
import Swal from 'sweetalert2'
import withReactContent from 'sweetalert2-react-content'
const MySwal = withReactContent(Swal)
```
```
.addCase(login.fulfilled, (state, action) => {
        state.isLoggedIn = true;
        state.user = action.payload.user;
        MySwal.fire({
```

```
                icon: 'success',
                title: 'Connection was successful',
                })
            })
        .addCase(login.rejected, (state, action) => {
            state.isLoggedIn = false;
            state.user = null;
            MySwal.fire({
                icon: 'error',
                title: 'Connection was refused',
                })


            })
```

Fichier app.js

```
import {Routes,Route} from "react-router-dom"
import Listarticles from './components/articles/Listarticles';
import Insertarticle from './components/articles/Insertarticle';
import Editarticle from './components/articles/Editarticle';
import Listcategories from './components/categories/Listcategories';
import Insertcategorie from './components/categories/Insertcategorie';
import Editcategorie from './components/categories/Editcategorie';
import Listscategories from './components/scategories/Listscategories';
import Insertscategorie from './components/scategories/Insertscategorie';
import 'bootstrap/dist/css/bootstrap.min.css';
import Editscategorie from './components/scategories/Editscategorie';
import Login from "./components/admin/Login"
import Logout from "./components/admin/Logout"
import Register from "./components/admin/Register"
import { useSelector } from "react-redux";

import  Menu  from "./components/Menu";

function App() {
  const { isLoggedIn } = useSelector((state) => state.auth)
  return (
    <>
    {isLoggedIn? <Menu /> :<Login/> }
<Routes>

<Route path="/articles" exact element={<Listarticles/>}/>
<Route path="/articles/add" element={<Insertarticle/>}/>
<Route path="/article/edit/:id" element={<Editarticle/>}/>
```

```
<Route path="/categories" exact element={<Listcategories/>}/>
<Route path="/categories/add" element={<Insertcategorie/>}/>
<Route path="/categories/edit/:id" element={<Editcategorie/>}/>
<Route path="/scategories" exact element={<Listscategories/>}/>
<Route path="/scategories/add" element={<Insertscategorie/>}/>
<Route path="/scategories/edit/:id" element={<Editscategorie/>}/>

<Route path="/login" element={<Login/>}/>
<Route path="/logout" element={<Logout/>}/>
<Route path="/register" element={<Register/>}/>
</Routes>
</>
  );
}


export default App;
```

Composant Login.js

```
import {useState, useEffect} from 'react'
import { useNavigate,Link} from "react-router-dom";
import { useDispatch , useSelector } from "react-redux";
import { login, reset } from "../../features/AuthSlice"
import Avatar from '@mui/material/Avatar';
import Button from '@mui/material/Button';
import CssBaseline from '@mui/material/CssBaseline';
import TextField from '@mui/material/TextField';
import FormControlLabel from '@mui/material/FormControlLabel';
import Checkbox from '@mui/material/Checkbox';
//import Link from '@mui/material/Link';
import Grid from '@mui/material/Grid';
import Box from '@mui/material/Box';
import LockOutlinedIcon from '@mui/icons-material/LockOutlined';
import Typography from '@mui/material/Typography';
import Container from '@mui/material/Container';
import { createTheme, ThemeProvider } from '@mui/material/styles';




function Copyright(props) {
  return (
    <Typography variant="body2" color="text.secondary" align="center"
{...props}>
      {'Copyright © '}
      <Link color="inherit" href="https://mui.com/">
        Your Website
      </Link>{' '}
```

```jsx
      {new Date().getFullYear()}
      {'.'}
    </Typography>
  );
}

const theme = createTheme();

export default function Login() {
  const navigate = useNavigate();
const dispatch = useDispatch();
const {isLoggedIn} = useSelector((state) => state.auth);

const[email,setEmail]=useState('');
const[password,setPassword]=useState('');

const  handleSubmit=(event)=>{
event.preventDefault();
const objetuser = {
email: email,
password :password
};
 dispatch(login(objetuser)) ;
}
if(isLoggedIn){


navigate("/menu");
}



  return (
    <ThemeProvider theme={theme}>
      <Container component="main" maxWidth="xs">
        <CssBaseline />
        <Box
          sx={{
            marginTop: 8,
            display: 'flex',
            flexDirection: 'column',
            alignItems: 'center',
          }}
        >
          <Avatar sx={{ m: 1, bgcolor: 'secondary.main' }}>
            <LockOutlinedIcon />
          </Avatar>
          <Typography component="h1" variant="h5">
```

```jsx
          Sign in
        </Typography>
        <Box component="form" onSubmit={handleSubmit} noValidate sx={{ mt: 1
}}>
          <TextField
            margin="normal"
            required
            fullWidth
            id="email"
            label="Email Address"
            name="email"
            autoComplete="email"
            autoFocus
            onChange={(event)=>setEmail(event.target.value)}

          />
          <TextField
            margin="normal"
            required
            fullWidth
            name="password"
            label="Password"
            type="password"
            id="password"
            autoComplete="current-password"
            onChange={(event)=>setPassword(event.target.value)}

          />
          <FormControlLabel
            control={<Checkbox value="remember" color="primary" />}
            label="Remember me"
          />
          <Button
            type="submit"
            fullWidth
            variant="contained"
            sx={{ mt: 3, mb: 2 }}
            onClick={(event)=>handleSubmit(event)}

          >
            Sign In
          </Button>
          <Grid container>
            <Grid item xs>
              <Link href="#" variant="body2">
                Forgot password?
              </Link>
            </Grid>
            <Grid item>
```

```
                    <Link href="/register" variant="body2">
                      {"Don't have an account? Sign Up"}
                    </Link>
                  </Grid>
                </Grid>
              </Box>
            </Box>
            <Copyright sx={{ mt: 8, mb: 4 }} />
          </Container>
        </ThemeProvider>
    );
}
```

Fichier ProtectedRoute.js

```
import  Menu  from "../Menu"
import { Outlet, Navigate } from 'react-router-dom'
const ProtectedRoutes = () => {
    let token=localStorage.getItem("CC_Token");
    // console.log("token est " + token)
    return(
    token!=null ? <><Menu/><Outlet/></>: <Navigate to="/login"/>
    )
    }
    export default ProtectedRoutes
```

https://medium.com/geekculture/axios-interceptor-why-you-need-it-fb234a945749

Fichier Api.js

```
import axios from "axios";
axios.defaults.baseURL = 'http://localhost:3001/api/';

export default axios.create({
  headers: {
    Authorization : "Bearer " + localStorage.getItem("CC_Token")
    }
})
```

App.js with Protectedroute

```
import {Routes,Route} from "react-router-dom"
import Listarticles from './components/articles/Listarticles';
import Insertarticle from './components/articles/Insertarticle';
import Editarticle from './components/articles/Editarticle';
```

```jsx
import Listcategories from './components/categories/Listcategories';
import Insertcategorie from './components/categories/Insertcategorie';
import Editcategorie from './components/categories/Editcategorie';
import Listscategories from './components/scategories/Listscategories';
import Insertscategorie from './components/scategories/Insertscategorie';
import 'bootstrap/dist/css/bootstrap.min.css';
import Editscategorie from './components/scategories/Editscategorie';
import Login from "./components/admin/Login"
import Logout from "./components/admin/Logout"
import Register from "./components/admin/Register"
import { useSelector } from "react-redux";

import  Menu  from "./components/Menu";
import ProtectedRoutes from "./components/admin/ProtectedRoutes";

function App() {

  return (
    <>

<Routes>
<Route path="/menu"  element={<Menu/>}/>
<Route element={<ProtectedRoutes/>}>
    <Route path="/articles"  element={<Listarticles/>}/>


    <Route path="/articles/add" element={<Insertarticle/>}/>
    <Route path="/article/edit/:id" element={<Editarticle/>}/>
    <Route path="/categories"  element={<Listcategories/>}/>
    <Route path="/categories/add" element={<Insertcategorie/>}/>
    <Route path="/categories/edit/:id" element={<Editcategorie/>}/>
    <Route path="/scategories"  element={<Listscategories/>}/>
    <Route path="/scategories/add" element={<Insertscategorie/>}/>
    <Route path="/scategories/edit/:id" element={<Editscategorie/>}/>



</Route>

<Route path="/login" element={<Login/>}/>
<Route path="/logout" element={<Logout/>}/>
<Route path="/register" element={<Register/>}/>

</Routes>
</>
  );
}

export default App;
```
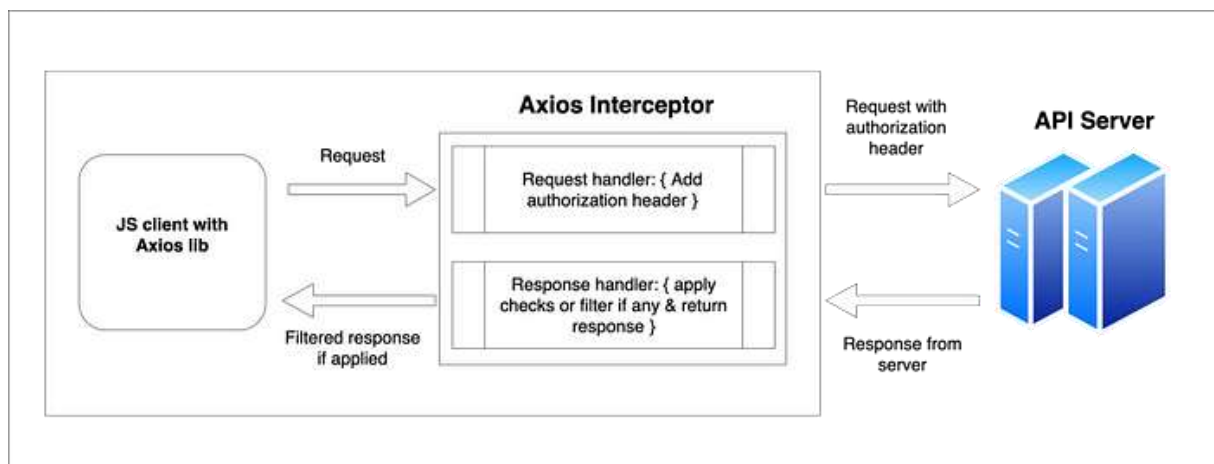
Fichier axios/Api.js

```javascript
import axios from "axios";


axios.defaults.baseURL = 'http://localhost:3001/api/';


axios.interceptors.request.use(
  config => {
      const token = localStorage.getItem("CC_Token")
      if (token) {
          config.headers['Authorization'] = 'Bearer ' + token;
      }
      return config;
  },
  error => {
      Promise.reject(error)
  });


export default axios;
```

Ajouter Avatar (une image) dans l'ajout d'un user

```jsx
<Grid item xs={12}>
            <TextField
              required
              fullWidth
              name="avatar"
              label="Avatar"
              type="file"
```

```
                    id="avatar"
                    autoComplete="new-password"
                    onChange={(event)=>setAvatar(event.target.files[0])}
                />
            </Grid>
```

Ajouter le state avatar à la liste des states

```
const [avatar, setAvatar] = useState("");
```

Méthode handlesubmit

```
import {buildFormData} from "../../utils/ConvertFormData";


const handleSubmit = (e) => {
  e.preventDefault()
if (password !== password2) {
alert('Passwords do not match')
} else {
const userData = {
firstname:firstName,
lastname:lastName,
email:email,
password:password,
avatar:avatar
}
const formData = new FormData();
buildFormData(formData, userData);

dispatch(register(formData))


}
navigate('/login')
};
```

Créer le fichier src/utils/ConvertFormData.js

ConvertFormData nous servira à convertir un objet javascript en formData.

L'objet FormData vous permet de compiler un ensemble de paires clé/valeur à envoyer. Il est

principalement destiné à l'envoi de données de formulaire, mais il peut également être utilisé

indépendamment des formulaires pour transmettre des données indexées. Le format des données

transmises est le même que celui qu'utiliserait la méthode submit() du formulaire pour envoyer les

données si l'encodage de ce dernier était défini sur multipart/form-data (obligatoire pour multer).

```javascript
export const buildFormData= (formData, data, parentKey) => {
    if (data && typeof data === 'object' && !(data instanceof Date) && !(data
instanceof File)) {
      Object.keys(data).forEach(key => {
        buildFormData(formData, data[key], parentKey ? `${parentKey}[${key}]`
: key);
      });
    } else {
      const value = data == null ? '' : data;

      formData.append(parentKey, value);
    }
  }
```

Sign up

First Name *

ESPS

Last Name *

ESPS-SFAX

Email Address *

ESPS@gmail.com

Password *

•••

Retype Password *

•••

Avatar *

Choisir un fichier | image.PNG

☐ I want to receive inspiration, marketing promotions and updates via email.

SIGN UP

Ajouter un avatar dans le menu

Menu.js

```jsx
import React from 'react'
import Avatar from '@mui/material/Avatar';
import Stack from '@mui/material/Stack';
import {useSelector} from "react-redux"
import {urlimage} from "../Axios/Api"
import {Nav, Navbar,Container,Form,FormControl,Button} from 'react-bootstrap';
import {Link } from 'react-router-dom'
const Menu=()=>{
  const mystyle = {
    color: "white",
    backgroundColor: "DodgerBlue",
    padding: "10px",
    fontFamily: "Arial"
  };

  const {user} = useSelector((state) =>state.auth);


  return(
<Navbar bg="primary" variant="dark">
    <Container>
    <Navbar.Brand >Gestion Commerciale</Navbar.Brand>
    <Nav className="me-auto">
      <Nav.Link as={Link} to="/categories">Catégories</Nav.Link>
      <Nav.Link as={Link} to="/scategories">Sous Catégories</Nav.Link>
      <Nav.Link as={Link} to="/articles">Liste des Articles</Nav.Link>

    </Nav>
    <Stack direction="row" spacing={2}>
    <h6 style={{mystyle}}>{user.email}</h6>
      <Avatar alt="Remy Sharp" src={urlimage + user.avatar} />

    </Stack>
    </Container>
    <Form className="d-flex">
        <FormControl
          type="search"
          placeholder="Search"
          className="me-2"
          aria-label="Search"
        />
        <Button variant="success">Chercher</Button>
      </Form>
```

```
  </Navbar>
  )


}
export default  Menu
```

fichier axios/api.js

```
export const urlimage="http://localhost:3001/images/"
```