

Mini Project - News Fetching React Redux App

- **Technologies we will use:**

1. React.js
 2. Redux
 3. React-Redux
 4. react-hook-form
 5. Axios
 6. react-toastify
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- **Step1:** Install React App

```
$ npx create-react-app news_pro_client --npm
```

- **Step2:** Install Dependencies

```
$ npm i redux react-redux axios react-hook-form react-toastify --save
```

- **Step3:** Create Redux Store called store.js inside your src folder

```
import {
  createStore,
  combineReducers,
  applyMiddleware,
  compose
} from 'redux'
import thunk from 'redux-thunk'
import newsReducer from './reducers/newsReducer'

const allReducers = combineReducers({
```

```

    news: newsReducer
  })

const store = createStore(
  allReducers,
  compose(
    applyMiddleware(thunk),
    window.__REDUX_DEVTOOLS_EXTENSION__ &&
    window.__REDUX_DEVTOOLS_EXTENSION__()
  )
)

console.log(store.getState())
export default store;

```

- **Step4:** Create Action Types inside types.js file in your actions folder

```

export const BUSINESS_NEWS = 'BUSINESS_NEWS'
export const TECHNOLOGY_NEWS = 'TECHNOLOGY_NEWS'
export const HEADLINES = 'HEADLINES'

```

- **Step5:** Create News Reducer inside reducers folder

```

import { BUSINESS_NEWS, HEADLINES, TECHNOLOGY_NEWS } from "../actions/types";

const initialState = {
  business_news: [],
  technology_news: [],
  headlines: []
}

const newsReducer = (state = initialState, action) => {

```

```
const newState = {...state}

switch(action.type){

  case BUSINESS_NEWS:
    newState.business_news = action.payload
    break;
  case TECHNOLOGY_NEWS:
    newState.technology_news = action.payload
    break;
  case HEADLINES:
    newState.headlines = action.payload
    break;
  default:
    return newState;

}

return newState;

}

export default newsReducer;
```

- **Step6:** Create actions inside actions folder

```
import { BUSINESS_NEWS } from "../types"
export const setBusinessNews = async(dispatch,data) =>{
  dispatch({
    type: BUSINESS_NEWS,
    payload: data

  })
}
```

```
import { HEADLINES } from "../types"
export const setHeadlines = async(dispatch,data) =>{
    dispatch({
        type: HEADLINES,
        payload: data
    })
}
```

```
import { TECHNOLOGY_NEWS } from "../types"
export const setTechnologyNews = async(dispatch,data) =>{
    dispatch({
        type: TECHNOLOGY_NEWS,
        payload: data
    })
}
```

- **Step7:** Integrate your Redux store with your React App root file

```
import React from 'react';
import ReactDOM from 'react-dom';
import './index.css';
import App from './App';
import { Provider } from 'react-redux'
import reportWebVitals from './reportWebVitals';
import store from './store'

ReactDOM.render(
  <React.StrictMode>
    <Provider store={store}>
      <App />
    </Provider>
```

```
</React.StrictMode>,
document.getElementById('root')
);

// If you want to start measuring performance in your app, pass a function
// to log results (for example: reportWebVitals(console.log))
// or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
reportWebVitals();
```

- **Step8:** Create Loader to Fetch News from API

```
import React, { useState, useEffect } from 'react'
import { useDispatch } from 'react-redux'
import { useHistory } from 'react-router'
import { setBusinessNews } from '../../actions/setBusinessNews'
import { setHeadlines } from '../../actions/setHeadlines'
import { setTechnologyNews } from '../../actions/setTechnologyNews'
import { getBusinessNews } from '../../Apis/getBusinessNews'
import { getHeadlines } from '../../Apis/getHeadlines'
import { getTechNews } from '../../Apis/getTechNews'

export default function AppLoader() {

  const [loading, setLoading] = useState(false)
  const dispatch = useDispatch()
  let history = useHistory()

  useEffect(()=>{

    const getData = async()=>{

      const n1 = await getHeadlines()
      console.log(n1)
      setHeadlines(dispatch,n1)
```

```

        const n2 = await getTechNews()
        console.log(n2)
        setTechnologyNews(dispatch,n2)

        const n3 = await getBusinessNews()
        console.log(n3)
        setBusinessNews(dispatch,n3)
        setLoading(true)

    }
    getData()

},[dispatch])

const button = loading ? <button onClick={() => history.push({pathname: '/
headlines'})}>Click here to Continue! </button>
    : <button> Please Wait...</button>
return (
    <div>
        <h1> Please Wait...</h1>
        <h3> Your Application is Loading... </h3>
        {button}
    </div>
)
}

```

- **Step9:** Display the news you have fetched in Headlines Component by fetching it from the redux store using useSelector()

```
import React from 'react'
```

```
import './index.css'
import { useSelector } from 'react-redux'
export default function Headlines() {

  const data = useSelector((state) => state.news.headlines)
  console.log(data)
  return (
    <React.Fragment>
      <section class="news-section">
        {data!= null && data.length ?
          data.map((item,index)=>(
            <div key={index}>
              <h1> {item.title} </h1>
              <img
                alt=''
                src={item.urlToImage}
                width='250'
                height='250'
              />
              <p>{item.description} </p>
            </div>
          )) : <span> Loading... </span> }
        </section>

      </React.Fragment>
    )
  }
}
```
