RestAPI Of My project import axios from 'axios'; const API = axios.create({ baseURL: 'http://localhost:5000' }); API.interceptors.request.use((req) => { if (localStorage.getItem('profile')) { req.headers.Authorization = `Bearer \${JSON.parse(localStorage.getItem('profile')).token}`; return req; **})**; export const fetchPost = (id) => API.get(\'/posts/\\$\{id\}\'); export const fetchPosts = (page) => API.get('/posts?page=\${page}'); export const fetchPostsBySearch = (searchQuery) => API.get(`/posts/search?searchQuery= \${searchQuery.search | | 'none'}&tags=\${searchQuery.tags}`); export const createPost = (newPost) => API.post('/posts', newPost); export const likePost = (id) => API.patch('/posts/\${id}/likePost'); export const updatePost = (id, updatedPost) => API.patch(`/posts/\${id}`, updatedPost); export const deletePost = (id) => API.delete(`/posts/\${id}`); **ACTIONS OF REDUX** //What to do? like if we want to do increment or decrement // import { FETCH ALL, CREATE, UPDATE, DELETE, LIKE } from '../constants/typeofaction'; import * as api from '../api/index.js'; export const getPost = (id) => async (dispatch) => {

try {

} });

dispatch({ type: 'START LOADING' });

const { data } = await api.fetchPost(id);

dispatch({ type: 'FETCH_POST', payload: { post: data

RestFUL API (An API in server which implements the API

```
const mongoose=require('mongoose');
// import express from 'express';
const express=require('express')
const
PostMessage=require('../models/postMessage.js');
// import { getPosts, getPostsBySearch, getPost,
createPost, updatePost, likePost, deletePost }
from '../controller/posts.js';
const jwt = require('jsonwebtoken');
// const getPosts=require('../controller/posts.js');
getPostsBySearch=require('../controller/posts.js');
// const getPost=require('../controller/posts.js');
// const
createPost=require('../controller/posts.js');
// const
updatePost=require('../controller/posts.js');
// const likePost=require('../controller/posts.js');
deletePost=require('../controller/posts.js');
const bcrypt = require('bcryptjs');
const Authenticate =
require("../middleware/Authenticate");
const User = require('../models/user');
console.log("Router Came");
const router = express.Router();
// import auth from "../middleware/auth.js";
router.get('/posts/search', async(reg,res)=>{
  console.log("Search");
  const { searchQuery, tags } = req.query;
  try {
    const title = new RegExp(searchQuery, "i");
    const posts = await PostMessage.find({ $or: [ {
title }, { tags: { $in: tags.split(',') } } ]});
```

```
} catch (error) {
                                                              res.json({ data: posts });
                                                            } catch (error) {
  console.log(error);
                                                              res.status(404).json({ message: error.message
};
                                                         });
                                                            }
export const getPosts = (page) => async (dispatch) =>
                                                         });
                                                         router.get('/posts/', async(req,res)=>{
                                                            console.log("Get");
try {
  dispatch({ type: 'START_LOADING' });
                                                            const { page } = req.query;
  const { data: { data, currentPage, numberOfPages }
} = await api.fetchPosts(page);
                                                            try {
                                                              const LIMIT = 8;
  dispatch({ type: 'FETCH_ALL', payload: { data,
                                                              const startIndex = (Number(page) - 1) * LIMIT;
currentPage, numberOfPages } });
                                                         // get the starting index of every page
  dispatch({ type: 'END_LOADING' });
 } catch (error) {
                                                              const total = await
  console.log(error);
                                                          PostMessage.countDocuments({});
                                                              const posts = await PostMessage.find().sort({
};
                                                          _id: -1 }).limit(LIMIT).skip(startIndex);
export const getPostsBySearch = (searchQuery) =>
                                                              res.json({ data: posts, currentPage:
async (dispatch) => {
                                                          Number(page), numberOfPages: Math.ceil(total /
 try {
                                                          LIMIT)});
  dispatch({ type: 'START_LOADING' });
                                                            } catch (error) {
  const { data: { data } } = await
                                                              res.status(404).json({ message: error.message
api.fetchPostsBySearch(searchQuery);
                                                         });
                                                            }
  dispatch({ type: 'FETCH_BY_SEARCH', payload: {
                                                         });
                                                          router.get('/posts/:id', async(req,res)=>{
data } });
  dispatch({ type: 'END_LOADING' });
                                                            console.log("Get post");
} catch (error) {
                                                            const { id } = req.params;
  console.log(error);
                                                            try {
};
                                                              const post = await PostMessage.findById(id);
export const createPost = (post, history) => async
                                                              res.status(200).json(post);
(dispatch) => {
                                                            } catch (error) {
 try {
                                                              res.status(404).json({ message: error.message
  dispatch({ type: 'START LOADING' });
                                                         });
  const { data } = await api.createPost(post);
                                                           }
                                                         });
  dispatch({ type: 'CREATE', payload: data });
                                                         router.post('/posts/', async(req,res)=>{
  history.push('/posts/${data. id}');
                                                            console.log("Newpost");
                                                            const { title, message, selectedFile, creator, tags
 } catch (error) {
  console.log(error);
                                                         } = req.body;
}
```

```
const newPostMessage = new PostMessage({
export const updatePost = (id, post) => async
                                                         title, message, selectedFile, creator, tags })
(dispatch) => {
 try {
                                                            try {
  const { data } = await api.updatePost(id, post);
                                                              await newPostMessage.save();
  dispatch({ type: 'UPDATE', payload: data });
                                                              res.status(201).json(newPostMessage);
 } catch (error) {
                                                            } catch (error) {
  console.log(error);
                                                              res.status(409).json({ message: error.message
                                                         });
};
                                                           }
                                                         });
export const likePost = (id) => async (dispatch) => {
                                                         router.patch('/posts/:id' , async(req,res)=>{
 const user =
                                                            console.log("UpdatePost");
JSON.parse(localStorage.getItem('profile'));
                                                            const { id } = req.params;
                                                            const { title, message, creator, selectedFile, tags
                                                         } = req.body;
 try {
  const { data } = await api.likePost(id, user?.token);
                                                            if (!mongoose.Types.ObjectId.isValid(id)) return
  dispatch({ type: 'LIKE', payload: data });
                                                         res.status(404).send(`No post with id: ${id}`);
 } catch (error) {
  console.log(error);
                                                            const updatedPost = { creator, title, message,
}
                                                         tags, selectedFile, id: id };
};
                                                            await PostMessage.findByIdAndUpdate(id,
export const deletePost = (id) => async (dispatch) => {
                                                         updatedPost, { new: true });
 try {
  await await api.deletePost(id);
                                                            res.json(updatedPost);
                                                         });
  dispatch({ type: 'DELETE', payload: id });
                                                         router.delete('/posts/:id',async(reg,res)=>{
                                                            console.log("DeletPost");
 } catch (error) {
  console.log(error);
                                                            const { id } = req.params;
};
                                                            if (!mongoose.Types.ObjectId.isValid(id)) return
                                                         res.status(404).send(`No post with id: ${id}`);
REDUCER OF REDUX
                                                            await PostMessage.findByIdAndRemove(id);
//Reducers tell how to do? It contains state and the
action
                                                            res.json({ message: "Post deleted successfully."
//Functionality is in the reducer
                                                         });
                                                         });
                                                          router.patch('/posts/:id/likePost',
// import { FETCH ALL, CREATE, UPDATE, DELETE,
                                                         async(req,res)=>{
LIKE } from '../constants/actionTypes';
                                                            console.log("LikePost");
// import { FETCH ALL} from
                                                            const { id } = req.params;
'../constants/actionTypes';
                                                            console.log(id);
```

```
// eslint-disable-next-line import/no-anonymous-
default-export
export default (state = { isLoading: true, posts: [] },
                                                           if (!mongoose.Types.ObjectId.isValid(id)) return
action) => {
                                                         res.status(404).send(`No post with id: ${id}`);
switch (action.type) {
  case 'START_LOADING':
                                                           const post = await PostMessage.findById(id);
   return { ...state, isLoading: true };
  case 'END LOADING':
                                                           const updatedPost = await
   return { ...state, isLoading: false };
                                                         PostMessage.findByIdAndUpdate(id, { likeCount:
  case 'FETCH ALL':
                                                         post.likeCount + 1 }, { new: true });
   return {
                                                           res.json(updatedPost);
    ...state,
    posts: action.payload.data,
                                                         });
    currentPage: action.payload.currentPage,
    numberOfPages: action.payload.numberOfPages,
                                                         router.post('/register', async (req,res) => {
                                                           console.log("signup");
   };
  case 'FETCH_BY_SEARCH':
                                                           const { name, email, phone, work, password,
   return { ...state, posts: action.payload.data };
                                                         Confpassword} = req.body;
  case 'FETCH POST':
   return { ...state, post: action.payload.post };
                                                           if(!name || !email || !phone || !work ||
                                                         !password | | !Confpassword){
  case 'LIKE':
   return { ...state, posts: state.posts.map((post) =>
                                                              return res.status(422).json({error: "Please fill
(post. id === action.payload. id ? action.payload :
                                                         all fields."});
                                                                                //422 some filled is missing
post)) };
                                                           }
  case 'CREATE':
   return { ...state, posts: [...state.posts,
                                                           try {
action.payload] };
  case 'UPDATE':
                                                             const userExist = await User.findOne({email:
   return { ...state, posts: state.posts.map((post) =>
                                                                          //left email is from database and
(post. id === action.payload. id ? action.payload :
                                                         right is that user is filling on resgistration form
                                                              if (userExist) {
post)) };
                                                                                                      //if
  case 'DELETE':
                                                         user already exists
   return { ...state, posts: state.posts.filter((post) =>
                                                                return res.status(422).json({error: "Email
post. id !== action.payload) };
                                                         already exits"});
  default:
                                                             }else if(password != Confpassword){
   return state;
                                                                return res.status(422).json({error:
                                                         "Password and confirm password doesn't
};
                                                         match."});
                                                             }
REDUX STORE
const store = createStore(reducers,
                                                              const user = new User({ name, email, phone,
compose(applyMiddleware(thunk)));
                                                         work, password, Confpassword });
ReactDOM.render(
                                                             //befor saving the data password will be
 <Provider store={store}>
                                                         encyrpted in user file than it will be save
  <App />
                                                              await user.save();
 </Provider>,
                                                              res.status(201).json({message: "Registration
 document.getElementById('root'),
                                                         successfull."});
```

ROUTING IN ASP.NET it's in webapniconfig.cs

```
routes.MapHttpRoute(
  name: "ActionApi",
  routeTemplate: "api/{controller}/{action}/{id}",
  defaults: new { id = RouteParameter.Optional }
);
```

```
}catch(err) {
    console.log(err);
  }
});
router.post('/signin', async (req,res) =>{
  console.log("Login");
  // res.json({ message: "hello"})
  try{
    let token;
    const { email,password} = req.body;
    if (!email | | !password){
      return res.status(400).json({error:"Please
enter email and password"})
    }
    const userLogin = await
User.findOne({email:email});
    //console.log(userLogin);
    if(userLogin){
      const isMatch = await
bcrypt.compare(password,userLogin.password);
//checking the password is match with the
username that is put
      token = await
userLogin.genrateAuthToken();
      console.log(token);
      res.cookie("jwtoken",token, {
         expires:new Date(Date.now() +
25892000000),
                          //cookies expires after
30 days
         httpOnly:true
      });
                                              //if
      if(!isMatch){
data is present
         res.status(400).json({error: "Password
doesn't match with email."});
      }else{
         res.json({message: "Sigin successfully."});
    }else{
      res.status(400).json({error: "Please enter
valid email."});
```

```
}catch(err){
    console.log(err);
})
// About Page
router.get('/profile', (req,res) => {
  console.log('Hello from about');
  res.send('hello wolrd message from About
server.');
});
router.get('/Index', (req,res) => {
  console.log('Index');
  res.send('Index');
});
router.get('/logout', (req, res) => {
  console.log('Hello from logout page');
  res.clearCookie('jwtoken', {path:'/'});
  res.status(200).send('User logout');
});
// export default router;
module.exports=router
INDEX.JS BEFORE REDUCER
import { combineReducers } from 'redux';
import posts from './posts';
export const reducers = combineReducers({ posts
});
```