JWT Integration

Install jsonwebtoken

\$ npm install jsonwebtoken@8.5.1

Import the module into app.js

Create middelware

Create new file authenticate.js and paste code

```
const jwt = require("jsonwebtoken");
const authenticate = (req, res, next) => {
  try {
    const token = req.headers.authorization.split(")[1];
    jwt.verify(token, "Testing");
    next();
} catch (error) {
    console.log("Here error", error);
    res.status(401).json({ message: "Auth failed!" });
};
module.exports = authenticate;
```

Import authenticate

Import authenticate into app.js

const authenticate= require("./middelware/authenticate")

FE interceptor

```
constructor(private jwtHelper: JwtHelperService) { }
intercept(request: HttpRequest<any>, next: HttpHandler) {
  const token = localStorage.getItem('token');
  if (token && !this.jwtHelper.isTokenExpired(token)) {
    request = request.clone({
      setHeaders: {
        Authorization: `Bearer ${token}`
    });
  return next.handle(request);
```

Modifying Sign In Business Logic

UserService

```
userUrl: string = "http://localhost:3000/allUsers";
public token: string;
private authStatusListener = new Subject<boolean>();
private isUserAuthenticated = false;
private name: string;
constructor (private http: HttpClient, private router: Router) { }
getToken() {
  return this.token;
qetAuthStatusListener() {
  return this.authStatusListener.asObservable();
isUserAuth() {
  return this.isUserAuthenticated;
getName(){
  return this name;
signup(obj, img: File) {
  let formData = new FormData();
  formData.append( "firstName", obj.firstName);
  formData.append( "lastName", obj.lastName);
  formData.append( "email", obj.email);
  formData.append( "pwd", obj.pwd);
  formData.append( "img", img);
  return this.http.post<{ message: string }>( this.userUrl + "/subscription", formData);
editProfile(newUser) {
  return this.http.put(this.userUrl, newUser);
```

```
login(user) {
 this.http.post<{ user: any, message: string }>( this.userUrl + "/signin", user).subscribe(
   (res) => {
      const token = res.user.jwt;
      this.token = token;
      if (token) {
       this.isUserAuthenticated = true;
       this.name = res.user.firstName;
       this.authStatusListener.next( true);
       localStorage.setItem( 'token', token);
       localStorage.setItem( 'name', res.user.firstName);
       this.router.navigate([ '/']);
logout() {
 localStorage.removeItem( 'token');
 localStorage.removeItem( 'name');
 this.isUserAuthenticated = false;
 this.authStatusListener.next( false);
 this.router.navigate([ '/']);
```

Header Component

```
userIsAuthenticated = false;
user: any;
private authListenerSubs: Subscription;
constructor (private userService: UserService) { }
ngOnInit() {
  this.authListenerSubs = this.userService.getA <a routerLink="signin" class="nav-link"
*ngIf="!userIsAuthenticated" >Login</a>
                     <a class="nav-link" *ngIf="userIsAuthenticated" >{{user}}</a>
                      <a *ngIf="userIsAuthenticated" (click) ="logout()">Logout</a>
                      <a *ngIf="!userIsAuthenticated" routerLink="subscription"</li>
class="nav-link">Signup</a>
uthStatusListener().subscribe(
    isAuthenticated -> {
      this.userIsAuthenticated = isAuthenticated;
      this.user = this.userService.qetName();
ngOnDestrov() {
  this.authListenerSubs.unsubscribe();
logout() (
  this.userService.logout();
```