<body>  
  
<mat-card class="login-card">  
 <mat-card-header class="login-header">  
 <mat-card-title>lab8</mat-card-title>  
 </mat-card-header>  
 <mat-card-content>  
 <form class="login-form">  
 <table class="login-full-width" cellspacing="0">  
 <tr>  
 <td>  
 <mat-form-field class="login-full-width">  
 <input matInput placeholder="Email" [(ngModel)]="email" name="username" required>  
 </mat-form-field>  
 </td>  
 </tr>  
 <tr>  
 <td><mat-form-field class="login-full-width">  
 <input matInput placeholder="Password" [(ngModel)]="password"type="password" name="password" required>  
 </mat-form-field></td>  
 </tr></table>  
 </form>  
 </mat-card-content>  
 <mat-card-actions align="end">  
 <button mat-raised-button (click)="login()" color="primary">Login</button>  
 </mat-card-actions>  
</mat-card>  
  
</body>

**import** { Component, OnInit } **from** '@angular/core';  
**import** { HttpClient } **from** '@angular/common/http';  
**import** { Router } **from** '@angular/router';  
  
@Component({  
 selector: 'app-login',  
 templateUrl: './login.component.html',  
 styleUrls: ['./login.component.css']  
})  
**export class** LoginComponent **implements** OnInit {  
  
 **constructor**(**private** http: HttpClient, **private** router: Router) { }  
  
 email: **string**;  
 password: **string**;  
  
 ngOnInit() {  
 }  
  
 login() {  
 **if** (**this**.email !== '' && **this**.password !== '') {  
 **this**.http.post('http://localhost:3000/api/login', {name: **this**.email, email: **this**.password})  
 .subscribe((data: **any**) => {  
 localStorage.setItem('auth\_token', data.token);  
 **this**.router.navigate(['/home']);  
 console.log(data.token);  
 });  
 } **else** {  
 alert('Invalid credentials');  
 }  
 }  
}

<body>  
  
<mat-card class="login-card">  
<mat-card-actions>  
 <button mat-raised-button (click)="details()" color="primary">Show Details</button>  
</mat-card-actions>  
 <h1>{{userDetails.name}}</h1>  
 <h1>{{userDetails.email}}</h1>  
</mat-card>  
  
</body>

**import** { Component, OnInit } **from** '@angular/core';  
**import** {HttpClient, HttpHeaders} **from** '@angular/common/http';  
  
@Component({  
 selector: 'app-home',  
 templateUrl: './home.component.html',  
 styleUrls: ['./home.component.css']  
})  
**export class** HomeComponent **implements** OnInit {  
  
 userDetails: **any**;  
  
 **constructor**(**private** http: HttpClient) { }  
  
 ngOnInit() {  
 }  
  
 details() {  
 **const** token = localStorage.getItem('auth\_token');  
 console.log(token);  
 **const** headers = **new** HttpHeaders().set ('auth\_token', token);  
 **this**.http.get('http://localhost:3000/api/posts', {headers})  
 .subscribe(response => {  
 **this**.userDetails = response.user;  
 console.log(response);  
 });  
 }  
}

**import** { NgModule } **from** '@angular/core';  
**import** { Routes, RouterModule } **from** '@angular/router';  
**import** {LoginComponent} **from** './login/login.component';  
**import** {HomeComponent } **from** './home/home.component';  
  
**const** routes: Routes = [  
 { path: 'login', component: LoginComponent },  
 { path: 'home', component: HomeComponent},  
 {path : '', component : LoginComponent}];  
  
@NgModule({  
 imports: [RouterModule.*forRoot*(routes)],  
 exports: [RouterModule]  
})  
**export class** AppRoutingModule { }

**const** express = require('express');  
**const** jwt = require('jsonwebtoken');  
**const** cors = require('cors');  
**const** app=express();  
  
app.use(cors());  
  
app.listen(3000, ()=>{  
 console.log("Sever started on 3000")  
});  
  
app.get('/api', (req, res)=>{  
 res.json({  
 message:'Welcome to the API'  
 });  
});  
  
app.get('/api/posts/', verifyToken, (req,res)=>{  
 jwt.verify(req.token, 'secretkey', (err,authData)=>{  
 **if**(err){  
 res.sendStatus(403);  
 }  
 **else**{  
 res.json(authData)  
 }  
 });  
  
});  
  
app.post('/api/login', (req,res)=>{  
 **const** user={  
 name:'Brett',  
 email:'reckerb5@gmail.com'  
 };  
 jwt.sign({user}, 'secretkey',(err, token)=>{  
 res.json({token})  
 });  
  
});  
//Format of the token  
//Authorizations: Bearer <access\_token>  
  
//Verify token  
**function** verifyToken(req,res,next){  
 //get auth header value  
 **const** bearerHeader = req.headers['auth\_token'];  
  
 **if**(**typeof** bearerHeader !== "undefined"){  
  
 //Get token from array  
 req.token = bearerHeader;  
  
 //next middle ware  
 next();  
  
 }**else**{  
 res.sendStatus(403);  
 }  
}