

```

1 0w">
2 s="col s12 m3 l4"></div>
3
4 s="col s12 m6 l4 center">
5 class="card">
6 div class="card-content">
7
8
9 <div class="row">
10 <div class="col s12 center">
11 
13
14 <form #signInForm="ngForm">
15 <div class="input-field col s12">
16 <i class="material-icons prefix">email</i>
17 <input id="signin_email" type="text" maxlength="50" name="
18 [(ngModel))="authService.user.email">
19 <label for="signin_email">Correo</label>
20 </div>
21
22 <div class="input-field col s12">
23 <i class="material-icons prefix">lock</i>
24 <input id="signin_password" type="password" maxlength="50" nam
25 [(ngModel))="authService.user.password">
26 <label for="signin_password">Contraseña</label>
27 </div>
28
29 <div class="col s12">
30 <a (click)="signin(signInForm)" class="waves-effect waves-ligh
31 <i class="material-icons right">send</i>Iniciar Sesión</a>
32 </div>
33
34 <div class="col s12">
35 <br>
36 <b><a routerLink="/signup" routerLinkActivate="activate">Regis
37 </div>
38

```

```

1 ="row">
2 lass="col s12 m3 l4"></div>
3
4 lass="col s12 m6 l4 center">
5 iv class="card">
6 <div class="card-content">
7
8 <div class="row">
9 <div class="col s12 center">
10 Regístrate aquí</h5>
12 </div>
13
14
15
16 <form #signUpForm="ngForm">
17
18 <div class="input-field col s12">
19 <i class="material-icons prefix">account_circle</i>
20 <input id="signup_name" type="text" maxlength="100" name="n.
21 [(ngModel))="authService.user.name">
22 <label for="signup_name">Ingresa Nombre Completo</label>
23 </div>
24
25 <div class="input-field col s12">
26 <i class="material-icons prefix">email</i>
27 <input id="signup_email" type="text" maxlength="100" name="
28 [(ngModel))="authService.user.email">
29 <label for="signup_email">Ingresa Correo</label>
30 </div>
31
32 <div class="input-field col s12">
33 <i class="material-icons prefix">lock</i>
34 <input id="signup_password" type="password" maxlength="50"
35 [(ngModel))="authService.user.password">
36 <label for="signup_password">Ingresa Contraseña</label>
37 </div>
38

```

```

angular > src > app > components > signin > signin.component.html > div.row > div.col.s12.m6.l4.center > div.col > div.row > div.col.s12.m6.l4.center > div.card > div.card-content > div.row > form > div.input-field.col.s12
12 </div>
13
14 <form #signInForm="ngForm">
15   <div class="input-field col s12">
16     <i class="material-icons prefix">email</i>
17     <input id="signin_email" type="text" maxlength="50" name="email" [(ngModel)]="authService.user.email">
18     <label for="signin_email">Correo</label>
19   </div>
20
21   <div class="input-field col s12">
22     <i class="material-icons prefix">lock</i>
23     <input id="signin_password" type="password" maxlength="50" name="password" [(ngModel)]="authService.user.password">
24     <label for="signin_password">Contraseña</label>
25   </div>
26
27   <div class="col s12">
28     <a (click)="signIn(signInForm)" class="waves-effect waves-light" <i class="material-icons right">send</i>>Iniciar Sesión</a>
29   </div>
30
31   <div class="col s12">
32     <br>
33     <b><a routerLink="/signup" routerLinkActive="activate">Regístrate</a></div>
34
35 </form>
36 </div>
37
38 </div>
39
40 </div>
41
42 </div>
43 </div>
44
45 </div>
46 <div class="col s12 m3 l4"></div>
47
48

```

```

angular > src > app > components > signup > signup.component.html > div.row > div.col.s12.m6.l4.center > div.col > div.row > div.col.s12.m6.l4.center > div.card > div.card-content > div.row > form > div.input-field.col.s12
22 <label for="signup_name">Ingrese Nombre Completo</label>
23 </div>
24
25 <div class="input-field col s12">
26   <i class="material-icons prefix">email</i>
27   <input id="signup_email" type="text" maxlength="100" name="email" [(ngModel)]="authService.user.email">
28   <label for="signup_email">Ingrese Correo</label>
29 </div>
30
31 <div class="input-field col s12">
32   <i class="material-icons prefix">lock</i>
33   <input id="signup_password" type="password" maxlength="50" name="password" [(ngModel)]="authService.user.password">
34   <label for="signup_password">Ingrese Contraseña</label>
35 </div>
36
37 <div class="col s12">
38   <a (click)="signUp(signUpForm)" class="waves-effect waves-light" <i class="material-icons right">send</i>>Registrar</a>
39 </div>
40
41 <div class="col s12">
42   <br>
43   <b><a routerLink="/signin" routerLinkActive="activate">Iniciar Sesión</a></div>
44
45 </form>
46 </div>
47
48 </div>
49
50 </div>
51
52 </div>
53 </div>
54
55 </div>
56 <div class="col s12 m3 l4"></div>
57
58

```

```
angular > src > app > components > signin > signin.component.ts > SigninComponent > signin
1 import { Component, OnInit } from '@angular/core';
2 import { NgForm } from '@angular/forms';
3 import { AuthService } from 'src/app/services/auth.service';
4 import { Router } from '@angular/router';
5
6 declare var M: any;
7
8 @Component({
9   selector: 'app-signin',
10  templateUrl: './signin.component.html',
11  styleUrls: ['./signin.component.css'],
12  providers: [AuthService]
13 })
14 export class SigninComponent implements OnInit {
15
16   constructor(private router: Router, public authService: AuthService) { }
17
18   ngOnInit(): void {
19     if(localStorage.getItem('token')){
20       this.router.navigate(['/home']);
21     }
22   }
23
24   signin(form?: NgForm){
25     if(form){
26       this.authService.signIn(form.value).subscribe(
27         res => {
28           localStorage.setItem('token', res.token)
29           this.router.navigate(['/home']);
30         },
31         err =>{
32           M.toast({html: err.error});
33         }
34       );
35     }
36   }
37
38 }
```

```
angular > src > app > components > signup > signup.component.ts > SignupComponent > signup > subscribe()
1 import { Component, OnInit } from '@angular/core';
2 import { NgForm } from '@angular/forms';
3 import { Router } from '@angular/router';
4 import { AuthService } from 'src/app/services/auth.service';
5
6 declare var M: any;
7
8 @Component({
9   selector: 'app-signup',
10  templateUrl: './signup.component.html',
11  styleUrls: ['./signup.component.css'],
12  providers: [AuthService],
13 })
14
15 export class SignupComponent implements OnInit {
16
17   constructor(private router: Router, public authService: AuthService) { }
18
19   ngOnInit(): void {
20   }
21
22   signup(form?: NgForm){
23     if(form){
24       this.authService.signup(form.value).subscribe(
25         res =>{
26           localStorage.setItem('token', res.token);
27           M.toast({html: "Bienvenido"});
28           this.router.navigate(['/home']);
29         },
30         err=>{
31           M.toast({html: err});
32         }
33       )
34     }
35   }
36
37 }
38 }
```

Ln 26, Col 50 Spaces: 2 UTF-8 LF TypeScript Go Live 4.3.5 ENG 09:40 p. m. 12/08/2021

```

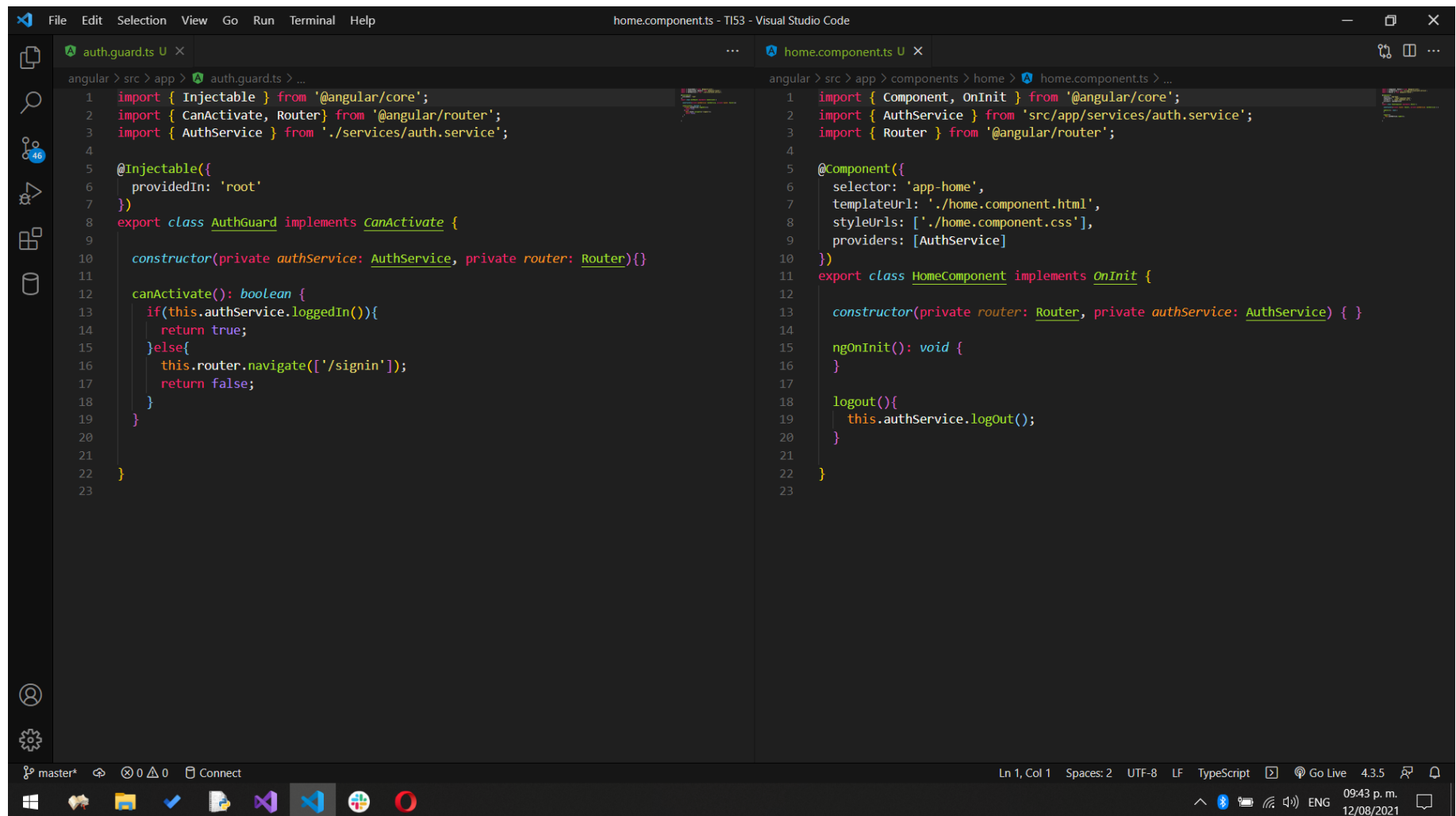
angular > src > app > services > auth.service.ts > ...
1 import { Injectable } from '@angular/core';
2 import { HttpClient } from '@angular/common/http';
3 import { Router } from '@angular/router';
4 import { Users } from '../models/users';
5
6 @Injectable({
7   providedIn: 'root'
8 })
9 export class AuthService {
10
11   readonly URL = 'https://meanstack123654.herokuapp.com/api/auth';
12   user: Users;
13
14   constructor(private http: HttpClient, private router: Router) {
15     this.user = new Users();
16   }
17
18   signUp(user: any){
19     return this.http.post<any>(this.URL + '/signup', user);
20   }
21
22   signIn(user: any){
23     return this.http.post<any>(this.URL + '/signin', user);
24   }
25
26   loggedIn(){
27     return !!localStorage.getItem('token');
28   }
29
30   getToken(){
31     return localStorage.getItem('token');
32   }
33
34   logout(){
35     localStorage.removeItem('token');
36     this.router.navigate(['/signin']);
37   }
38 }

```

```

angular > src > app > app-routing.module.ts > ...
1 import { NgModule } from '@angular/core';
2 import { RouterModule, Routes } from '@angular/router';
3
4 import { HomeComponent } from './components/home/home.component';
5 import { SensorComponent } from './components/sensor/sensor.component';
6 import { SigninComponent } from './components/signin/signin.component';
7 import { SignupComponent } from './components/signup/signup.component';
8 import { UsersComponent } from './components/users/users.component';
9
10 import { AuthGuard } from './auth.guard';
11
12
13
14
15 const routes: Routes = [
16   { path: '', redirectTo: 'signin', pathMatch: 'full'},
17   { path: 'signin', component: SigninComponent},
18   { path: 'signup', component: SignupComponent},
19   { path: 'home', component: HomeComponent, canActivate: [AuthGuard]},
20   { path: 'users', component: UsersComponent, canActivate: [AuthGuard]},
21   { path: 'sensor', component: SensorComponent, canActivate: [AuthGuard]},
22   { path: '***', redirectTo: 'signin'},
23 ];
24
25 @NgModule({
26   imports: [RouterModule.forRoot(routes)],
27   exports: [RouterModule]
28 })
29 export class AppRoutingModule { }
30

```



The image shows a Visual Studio Code editor with two files open. The left file is `auth.guard.ts` and the right file is `home.component.ts`. Both files are part of an Angular application.

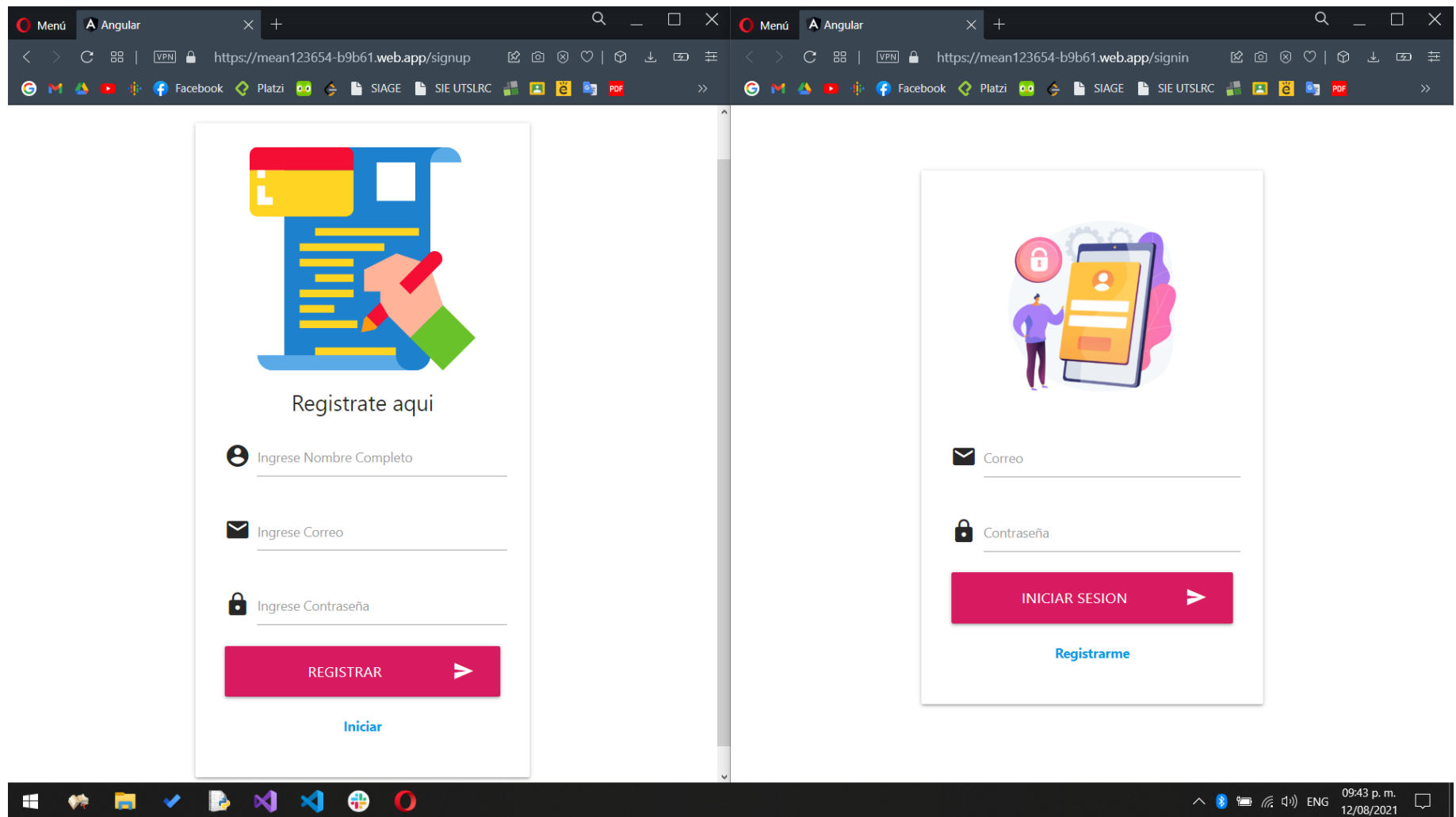
auth.guard.ts

```
1 import { Injectable } from '@angular/core';
2 import { CanActivate, Router } from '@angular/router';
3 import { AuthService } from '../services/auth.service';
4
5 @Injectable({
6   providedIn: 'root'
7 })
8 export class AuthGuard implements CanActivate {
9
10   constructor(private authService: AuthService, private router: Router){
11
12   canActivate(): boolean {
13     if(this.authService.loggedIn()){
14       return true;
15     }else{
16       this.router.navigate(['/signin']);
17       return false;
18     }
19   }
20
21 }
22
23
```

home.component.ts

```
1 import { Component, OnInit } from '@angular/core';
2 import { AuthService } from '../src/app/services/auth.service';
3 import { Router } from '@angular/router';
4
5 @Component({
6   selector: 'app-home',
7   templateUrl: './home.component.html',
8   styleUrls: ['./home.component.css'],
9   providers: [AuthService]
10 })
11 export class HomeComponent implements OnInit {
12
13   constructor(private router: Router, private authService: AuthService) { }
14
15   ngOnInit(): void {
16   }
17
18   logout(){
19     this.authService.logout();
20   }
21
22 }
23
```

The status bar at the bottom indicates the current file is `Ln 1, Col 1`, using `Spaces: 2`, `UTF-8` encoding, `LF` line endings, and `TypeScript` language. The system tray shows the time as `09:43 p. m.` on `12/08/2021`.



Menú Angular

https://mean123654-b9b61.web.app/home

Victor Galvan

Formulario

Nombre Completo
Ingrese nombre completo

Correo Electronico
Ingrese Correo Electronico

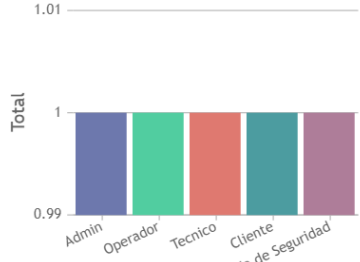
Contraseña
Ingrese Contraseña

Tipo de Usuario
1

Puntos de usuario
100

RESETEAR GUARDAR


Rangos de usuarios



Usuario	Total
Admin	1
Operador	1
Tecnico	1
Cliente	1
Guardia de Seguridad	1

Menú Angular

https://mean123654-b9b61.web.app/signin



Correo

Contraseña

INICIAR SESION

Registrarme

Windows taskbar with icons for File Explorer, Edge, and other applications.

System tray showing time 09:44 p. m. and date 12/08/2021.

TI 5-3 Victor Galvan

8/12/2021

Menú Angular

https://mean123654-b9b61.web.app/home

Victor Galvan

Formulario

Nombre Completo
Ingrese nombre completo

Correo Electronico
Ingrese Correo Electronico

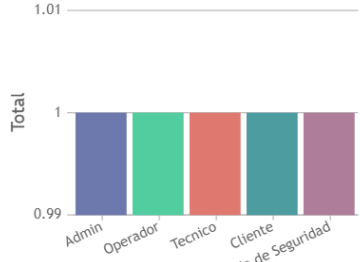
Contraseña
Ingrese Contraseña

Tipo de Usuario
1

Puntos de usuario
100

RESETEAR GUARDAR


Rangos de usuarios



Usuarios	Total
Admin	1.00
Operador	1.00
Tecnico	1.00
Cliente	1.00
Guardia de Seguridad	1.00

Menú Angular

https://mean123654-b9b61.web.app/signin



Correo
victor@gmail.com

Contraseña
.....

INICIAR SESION

Registrarme

Contraseña incorrecta

Windows taskbar with icons for File Explorer, Edge, and other applications. System tray shows time 09:44 p. m. 12/08/2021 and language ENG.

TI 5-3 Victor Galvan

8/12/2021