```
import { Routes } from '@angular/router';
import { LoginComponent } from './components/login/login.component';
import { DashboardComponent } from
'./components/dashboard/dashboard.component';
import { authGuard } from './auth.guard';
import { ProfileComponent } from './components/profile.component';
import { SettingsComponent } from './components/settings.component';
import { InboxComponent } from './components/inbox/inbox.component';
export const routes: Routes = [
        path: '',
        redirectTo: 'login',
        pathMatch: 'full'
    },
        path: 'login',
        component:LoginComponent
        path: 'dashboard',
        component: DashboardComponent,
        canActivate: [authGuard],
        children: [
                path: 'profile',
                component: ProfileComponent
                path: 'settings',
                component: SettingsComponent
            },
                path: 'inbox',
                component: InboxComponent
        path: '**',
        redirectTo: 'login'
];
```

### Login.component.ts →

```
import { Component, OnInit } from '@angular/core';
import { FormsModule } from '@angular/forms';
import {MatCardModule} from '@angular/material/card';
import { Router } from '@angular/router';
import { AuthService } from '../../services/auth.service';
import { MatButtonModule } from '@angular/material/button';
import { MatFormFieldModule } from '@angular/material/form-field';
import { MatInputModule } from '@angular/material/input';
import {MatProgressSpinnerModule} from '@angular/material/progress-spinner';
import { LoadingService } from '../../services/loading.service';
import { CommonModule } from '@angular/common';
import { Observable } from 'rxjs';
@Component({
  selector: 'app-login',
  standalone: true,
  imports:
[MatCardModule, CommonModule, MatProgressSpinnerModule, MatFormFieldModule, MatInp
utModule, FormsModule, MatButtonModule],
  templateUrl: './login.component.html',
  styleUrl: './login.component.css'
})
export class LoginComponent implements OnInit{
 username:string = '';
 password:string = '';
 timeOUt!:Observable<boolean>;
  constructor(private loader:LoadingService, private route: Router, private
authUser: AuthService){ }
    ngOnInit(): void {
      this.timeOUt = this.loader.loading$;
    authenticateUser(){
    this.loader.show();
    let authentication = this.authUser.authUser(this.username,this.password)
    setTimeout(() => {
      if(authentication){
        this.route.navigate(['/dashboard'])
        console.log('success')
      }else{
        alert('user not found!!');
        console.log('fail')
      this.loader.hide();
    }, 2000);
```

```
}
```

# Login.component.html →

```
<h1>Login Form</h1>
<mat-card>
   <mat-card-subtitle>
        <i>Username: Alan</i><br>
        <i>password: 123</i>
    </mat-card-subtitle>
    <mat-card-content>
        <div class="form">
                <mat-form-field>
                    <mat-label>Username</mat-label>
                    <input matInput [(ngModel)]="username" type="text">
                </mat-form-field>
                <br>
                <mat-form-field>
                    <mat-label>Password</mat-label>
                    <input matInput [(ngModel)]="password" type="password">
                </mat-form-field>
                <br>
            <button mat-raised-button</pre>
(click)="authenticateUser()">Login</button>
        </div>
        @if(timeOUt | async){
            <div class="spinner">
                <mat-spinner></mat-spinner>
            </div>
   </mat-card-content>
</mat-card>
```

### Login.component.css →

```
.form{
    margin: 40px;
}
mat-form-field{
    width: 40vw;
}
```

```
mat-card{
    margin-left: 20vw;
    margin-right: 20vw;
}
.spinner{
    position: fixed;
    top: 0;
    left: 0;
    width: 100%;
    height: 100%;
    background: rgba(0, 0, 0, 0.5);
    display: flex;
    justify-content: center;
    align-items: center;
}
```

# auth.guard.ts→

```
import { inject } from '@angular/core';
import { CanActivateFn, Router } from '@angular/router';
import { LoadingService } from './services/loading.service';
export const authGuard: CanActivateFn = (route, state) => {
 let userFound = localStorage.getItem('loggedUser')
  const router = inject(Router);
  const loaderService = inject(LoadingService);
  return new Promise<boolean>((resolve)=>{
    if(userFound){
        resolve(true);
     //return true
    else{
      setTimeout(()=> {
      router.navigate(['/login']);
      resolve(false)
      },0)
      // return false
  })
```

#### Auth.service.ts →

```
import { Injectable } from '@angular/core';
```

```
@Injectable({
 providedIn: 'root'
})
export class AuthService {
  userFound = false;
  users = [
      username : "Alan",
      password: '123'
    },
      username : "Amal",
      password: '123'
  constructor() { }
  authUser(username:any,password:any){
    for(let i=0; i<this.users.length; i++){</pre>
      if(username == this.users[i].username &&
password==this.users[i].password){
        localStorage.setItem('loggedUser',username)
        this.userFound = true;
        return true
    return false
```

# Loading.service.ts →

```
import { Injectable } from '@angular/core';
import { BehaviorSubject, Observable } from 'rxjs';

@Injectable({
   providedIn: 'root'
})
export class LoadingService {

   private loading = new BehaviorSubject<boolean>(false);
   public loading$:Observable<boolean> = this.loading.asObservable();

   constructor() { }
```

```
show(){
  this.loading.next(true);
}
hide(){
  this.loading.next(false);
}
```