

## Lazy loading

Created two modules:

App.module.ts is main module

Admin.module.ts is sub module

```
//app.module.ts
import { LoginComponent } from './login.component';
import { FooterComponent } from './footer.component';
import { routes } from './app.routes';
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';
import { RouterModule } from '@angular/router';
import { FormsModule } from '@angular/forms';
import { HttpClientModule, HTTP_INTERCEPTORS } from '@angular/common/http';
import { AppComponent } from './app.component';
import { HomeComponent } from './home.component';
import { AboutComponent } from './about.component';
import { RegisterComponent } from './register.component';
import { MenuComponent } from './menu';
import { UserService } from './user.service';
import { UserListComponent } from './userList.component';
import { EditUserComponent } from './editUser.component';
import { ProtectDataGaurd } from './protectData.gaurd';
import { HashLocationStrategy, LocationStrategy } from '@angular/common';
import { AuthGaurd } from './auth.gaurd';
import { CapitalPipe } from './capital.pipe';
import { ColorDirective } from './colorDirective';
import { DisableInputDirective } from './disableInputDirective';
import { AuthService } from './auth.service';
import { AdminModule } from './admin/admin.module';
import { AuthInterceptor } from './auth.interceptor';

@NgModule({
  declarations: [
    AppComponent, HomeComponent, AboutComponent, RegisterComponent,
    MenuComponent, FooterComponent, LoginComponent, UserListComponent,
    EditUserComponent, CapitalPipe, ColorDirective, DisableInputDirective
  ],
  imports: [
    BrowserModule, RouterModule.forRoot(routes), FormsModule, HttpClientModule,
    AdminModule
  ],
  providers: [
```



```

    {
      provide: HTTP_INTERCEPTORS,
      useClass: AuthInterceptor,
      multi: true
    },
    {
      provide: LocationStrategy,
      useClass: HashLocationStrategy
    },
    UserService, ProtectDataGaurd, AuthGaurd, AuthService,
  ],
  bootstrap: [AppComponent],
  exports: [RouterModule]
})
export class AppModule { }

```

```

//admin.module.ts
import { AdminLoginComponent } from './adminLogin.component';
import { NgModule } from "@angular/core";
import { AdminClientComponent } from './adminclient.component';
import { AdminHomeComponent } from './adminhome.component';
import { AdminContactComponent } from './admincontact.component';
import { RouterModule } from "@angular/router";
import { adminRoutes } from './admin.routes';
import { CommonModule } from "@angular/common";
import { AdminForgotPasswordComponent } from './adminForgotPassword';
import { AdminMenu } from './adminMenu';
@NgModule({
  imports:[RouterModule.forChild(adminRoutes),CommonModule],
  providers:[],

  declarations:[AdminClientComponent,AdminHomeComponent,AdminContactComponent,Admin
LoginComponent,AdminForgotPasswordComponent,AdminMenu],
  exports: [RouterModule]
})
export class AdminModule{

}

```

```

import { CanDeactivate } from '@angular/router';
import { Component } from '@angular/core';
import { LoginComponent } from './login.component';

```



```
//app.routes.ts
import { HomeComponent } from "../home.component";
import { AboutComponent } from "../about.component";
import { RegisterComponent } from "../register.component";
import { UserListComponent } from "../userList.component";
import { EditUserComponent } from "../editUser.component";
import { ProtectDataGaurd } from "../protectData.gaurd";
import { AuthGaurd } from "../auth.gaurd";

export const routes = [
  { path: "home", component: HomeComponent },
  { path: "about", component: AboutComponent },
  { path: "register", component: RegisterComponent, canActivate:
[ProtectDataGaurd] },
  { path: "login", component: LoginComponent },
  { path: "userList", component: UserListComponent, canActivate: [AuthGaurd] },
  { path: "edituser/:userId", component: EditUserComponent, canActivate:
[AuthGaurd] },
  { path: "", loadChildren: '../admin/admin.module#AdminModule' } // this is for
lazy loading,in this case admin empty route will call by default
]
```

```
//admin.routes.ts
import { AdminHomeComponent } from "../adminhome.component";
import { AdminContactComponent } from "../admincontact.component";
import { AdminClientComponent } from "../adminclient.component";
import { AdminLoginComponent } from "../adminLogin.component";
import { AdminForgotPasswordComponent } from "../adminForgotPassword";

export const adminRoutes = [
  {path:"",component:AdminHomeComponent},
  {path:"admincontact",component:AdminContactComponent},
  {path:"adminclient",component:AdminClientComponent},
  {path:"adminLogin",component:AdminLoginComponent,children:[
    {path:"adminLogin",component:AdminLoginComponent},
    {path:"adminForgot",component:AdminForgotPasswordComponent}
  ]}
]
```