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Spring Boot 9AM

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Spring Boot JWT + Angular Full Code

<https://github.com/javabyraghu/angular-springboot-jwt>

<https://github.com/javabyraghu/SpringBoot2RestJwtSecurityEx>

\*) Angular Guards

> Invalid URL Access (without login try to access URL : goto login page)

> Invalid Role Access (login but role is invalid , then goto /home page)

> Back button ( on click bak button, conitnue to home)

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CanActivate Guard : This is used to execute logic (returns true/false)  
before routing(access service) in angular

if true --> continue same URL

else goto HomePage

a) Define a Guard class

```
export class ____ implements CanActivate {  
  
    constructor() {}  
  
    canActivate(): boolean {  
        //return true/false  
    }  
}
```

b) Link Gurad with Routing

```
{  
    path: 'URL',  
    component: ____PageComponent,  
    canActivate: [____],  
}
```

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Angular Interceptors :-

These are used to modify request data, like headers, body, cookies...etc

before Submitting request to backend application.

\*) Create a class using HttpInterceptor and implment method : intercept.

```
export class AuthInterceptor implements HttpInterceptor {  
  
    intercept() {  
        //if token exist , add header Authorization=----  
        // send same request to backend application  
    }  
}
```

}

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## Oauth 2.x [Open Authorization]

\*) OAuth [Open Authorization] it is API Standard used for client applications and EndUsers Authorized by 'Authorization and Resource Server'.

\*) OAuth contains 3 components

- EndUser
- Client Application
- Auth and Resource Server.

\*) EndUser: persons who need services from client application.

\*) Client Application: Apps that gives services, ex:  
bookmyshow, carewale, zomato, redbus, quora, ...etc  
These are called business applications.

\*) Auth and Resource Server : A Server that validates User + Client App  
and gives user data to Client App.

Ex: Facebook, Google, Github, LinkedIn ,...etc

\*) This concept is used at day to day business applications.  
Not recommended in Finance based application.

\*) It is also called as One time authentication [SSO - Single Sign On]

\*) At a time for one EndUser/Browser only one OAuth service is provided.

ie AJAY--FACEBOOK, (AJAY CAN NOT USE GOOGLE,  
until delete account in Client App created using facebook)

-----Workflow-----  
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1. Register ClientApp with Auth and Resource Server
2. Register EndUser with Auth and Resource Server
3. Validate Client/EndUser with Auth and Resource Server