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Spring Boot 9AM

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FrontEnd Overview (for JWT)

Types of Files

- a. Models
- b. Services
- c. Components
 - TS
 - HTML
 - CSS
- d. Interceptor
- e. Guard

TypeScript -- Core Java
Angular -- Spring MVC

Core Java

```
class Employee {  
    int empId;  
    Employee(int empId){  
        this.empId = empId;  
    }  
}
```

--Angular-----

```
class Employee {  
    empId : number;  
    constructor(empId:number){  
        this.empId = empId;  
    }  
}
```

Angular Short Code (Creating variable and setting data)

```
class Employee {  
  
    constructor(public empId:number ) { }  
}
```

=====

Spring /Boot

Emp--<>Addr

```
class Addr {}  
class Emp {  
    @Autowired  
    private Addr aob;  
}
```

--Angular---

Emp--<>Addr

```
class Addr {}  
class Emp {  
    //DI  
    constructor(public aob:Addr ) { }  
}
```

---Java-----	---Angular-----
Annotation	Decorators
@Component	@Component
@Service	@Injectable
-----	-----
methods	function
RT method(DT var) {	function(var:DT) : RT {
}	}
-----	-----
Objects	JSON (Java Script Object Notation)
RestTemplate	HttpClient
java.lang.Object	any

=====

a. Models

Register User From Angular

HTML --> TS --> object ?? [UserModel]

```
---UserModel.ts-----
export class UserModel {
  constructor(
    public username : string,
    public email : string,
    public password : string,
  ){
  }
}
```

On Register submit --response--Object?? [MessageModel]

```
---MessageModel.ts-----
export class MessageModel {
  constructor(public message: string) {}
}
```

On Login Request Submit

HTML Form --Login Submit--> object ?? [LoginModel]

```
---LoginModel.ts-----
export class LoginModel {
  constructor(public username: string, public password: string) {}
}
```

Response--> JWT Information --> object ?? [JwtModel]

```
-----JwtModel.ts-----
export class JwtModel {
```

```
  constructor(
```

```

        public token : string,
        public type : string,
        public id : string,
        public username : string,
        public email : string,
        public roles : string[],
    )
    {
    }
}

```

--(Java)-----

Convert Employee to String Object?

```

Employee e =...
String s = e.toString();

```

String to Employee.....

--Angular-----

```

JSON to String:-
JSON.stringify(obj)

```

```

String to JSON:-
JSON.parse(str)

```

*) sessionStorage is memory used to hold data for a period of time in key=val at browser side.

```

=> both key=val are String type
=> sessionStorage supports methods
    setItem(key:string, val:string)
    getItem(key:string):val string
    removeItem(key:string)
    clear() [remove all keys data]

```

```

string a = 'AAA' // or any object

```

```

if data exist true, else false
boolean exist = !!a; //any object convert to boolean

```

<https://developer.mozilla.org/en-US/docs/Web/API/Window/localStorage>

```

<input type="" th:field="*{variableName}"..>

```

```

String s=...
if(s!=null)...

```

```

s!=null? ---->

```

--Angular---

```

forms.setup?.userData?.userAddr?.hno

```

Angular Form Validations:

<https://angular.io/guide/form-validation>