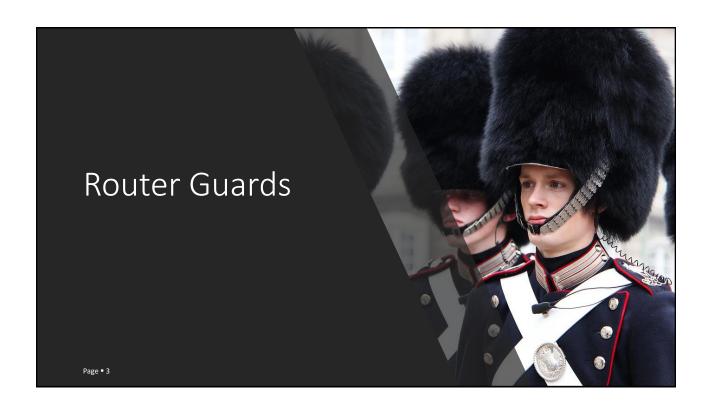


Contents

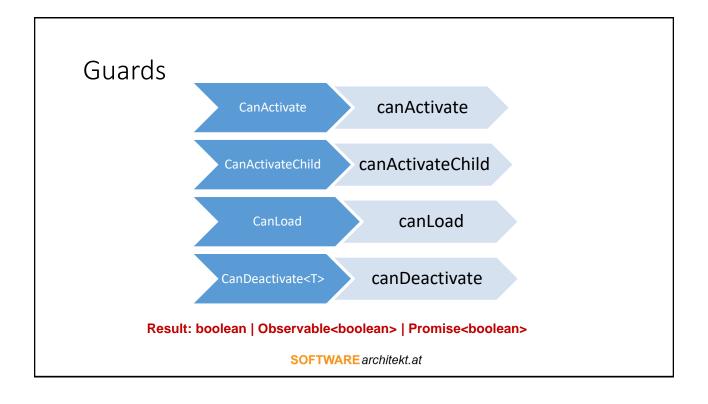
- Router Guards
- HttpInterceptor



What are Guards?

- Services
- Can prevent the Activation or Deactivation of a Route

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Configure Guards

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Provider for Guards

```
// app.module.ts
@NgModule({
    providers: [
        FlightEditGuard,
        AuthGuard
    ],
    [...]
})
export class XYModule {
}
```

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DEMO

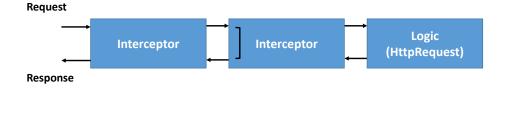
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Providing a hook for HttpClient
Modify requests and responses globally
Including Headers, e. g. for Auth.
Parsing Data Formats, like XML
Error Handling
Caching
...

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Chain of Responsibility

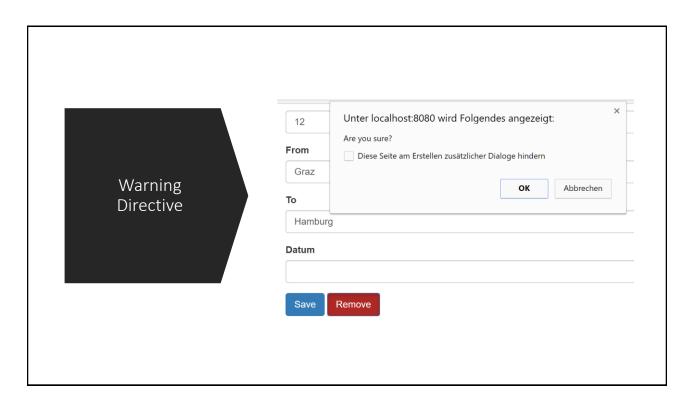


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DEMO

Sending Access Token for Auth Global Error Handler for Auth





Goal

```
<button (clickWithWarning)="delete()" warning="really?">
```

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Directive

```
@Directive({
    selector: '[clickWithWarning]'
})
export class ClickWithWarningDirective implements OnInit {
    [...]
}
```

Directive

```
@Directive({
    selector: '[clickWithWarning]'
})
export class ClickWithWarningDirective implements OnInit {
    @Input() warning: string = 'Are you sure?';
    @Output() clickWithWarning = new EventEmitter();
    [...]
}
```

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Directive

```
@Directive({
    selector: '[clickWithWarning]'
})
export class ClickWithWarningDirective implements OnInit {
    @Input() warning: string = 'Are you sure?';
    @Output() clickWithWarning = new EventEmitter();
    @HostBinding('class') cssClass: string = 'btn btn-danger';
    [...]
}
```

Directive

```
@Directive({
    selector: '[clickWithWarning]'
})
export class ClickWithWarningDirective implements OnInit {
    @Input() warning: string = 'Are you sure?';
    @Output() clickWithWarning = new EventEmitter();

    @HostBinding('class') cssClass: string;

@HostListener('click', ['$event'])
    handleClick($event): void {
        if (confirm(this.warning)) {
            this.clickWithWarning.emit();
        }
    }
}
```

DEMO

Global Error Handler



Global Error Handler and Tracing

