

Dynamic Components Forms Validations

Fravezzi Mattia m.fravezzi@almaviva.it



Dynamic component



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Dynamic component

```
<div class="ad-banner-example">
     <h3>Advertisements</h3>
     <ng-template adHost></ng-template>
</div>
```

```
@Directive({ selector: '[adHost]' })
export class AdDirective {
   constructor(
public vcr: ViewContainerRef
) { }
```

```
@Component()
export class AdBannerComponent implements {
    @Input() ads: AdItem[] = [];
    @ViewChild(AdDirective, { static: true }) adHost!: AdDirective;
    constructor( private cfr: ComponentFactoryResolver) { }
    loadComponent() {
            const componentFactory =
            this.cfr.resolveComponentFactory(adItem.component);
      const vcf = this.adHost.viewContainerRef;
      vcf.clear();
      const ref = vcf.createComponent<AdComponent>(componentFactory);
      ref.instance.data = adItem.data;
```



Dynamic component

```
@Injectable()
export class AdService {
    getAds() {
        return [
            new AdItem(HeroProfileComponent, { name: 'Bombasto', bio: 'Brave as they come' }),
            new AdItem(HeroJobAdComponent, {
                headline: 'Openings in all departments',
                body: 'Apply today'
            }),
        ];
```

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DOM Decorator

- @ViewChild()
- @ViewChildren()
- @ContentChild()
- @ContentChildren()
- QueryList<Item>



Custom Pipes

```
@Pipe({
    name: 'truncate'
})
export class TruncatePipe implements PipeTransform {
    transform(value: any, length: number, symbol: string) {
        return value.split(' ').slice(0, length).join(' ') + symbol;
    }
}
```

```
{{ item.name | truncate:4:'...' }}
```

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Template Variables

- a DOM element within a template
- a directive
- an element
- TemplateRef
- a web component

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Syntax

```
<input #phone placeholder="phone number" />
<button (click)="callPhone(phone.value)">Call</button>
<form #f>
   <input class="form-control" name="name" ngModel required />
   <button type="submit">Submit</button>
</form>
```

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Reactive Forms vs Template Driven Forms

- Flessibilità
- Realizzazione form Complessi
- Unit Test su logica di gestione dei form
- Costruzione Dimanica di Forms
- Rilevamento di modifiche attraverso observable

- Forms Semplici senza elaborazioni
- Accesso diretto sui dati



Template Driven Forms

```
<form #f="ngForm" (submit)="add(f)" [ngClass]="{'error': f.invalid && f.dirty}">
    <input class="form-control" name="name" #nameRef="ngModel" placeholder="Name" [ngModel]="hero?.name"</pre>
required minlength="3" [ngClass]="{'error': nameRef.invalid && nameRef.dirty}" />
    <div *ngIf="nameRef.invalid && (nameRef.dirty || nameRef.touched)" class="alert alert-danger">
        <small *ngIf="nameRef.errors?.required">
            Name is required.
        </small>
      </div>
    <button type="submit" [disabled]="f.invalid">Submit</button>
</form>
```



Reactive Forms

```
<form [formGroup]="myForm" (ngSubmit)="onSubmit()">
   <label>
       Name:
        <input type="text" formControlName="name">
   </label>
    <div *ngIf="nameForm.invalid && (nameForm.dirty || nameForm.touched)" class="alert alert-danger">
        <div *ngIf="nameForm?.errors?.required">
           Name is required.
        </div>
   </div>
    <button type="submit" [disabled]="myForm.invalid">Submit</button>
</form>
```



Reactive Forms

```
this.myForm = this.fb.group({
      name: ['', [Validators.required, Validators.minLength(3), forbiddenNameValidator(/regex/i)]],
      ability: ['', Validators.required],
}, { validators: formCrossValidator });
```

DEMO



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