API > @angular/forms



NgForm

rm directive

Creates a top-level FormGroup instance and binds it to a form to track aggregate form value and validation status.

See more...

Exported from

FormsModule

Selectors

```
form:not([ngNoForm]):not([formGroup])
```

ng-form

[ngForm]

Properties

Property	Description		
submitted: boolean	Read-Only		
	Returns whether the form		
	submission has been		
	triggered.		
form: FormGroup	The FormGroup instance		
	created for this form.		
@Output()	Event emitter for the		
ngSubmit: EventEmitter	"ngSubmit" event		
@Input('ngFormOptions')	Tracks options for the		
<pre>options: { updateOn?:</pre>	NgForm instance.		
FormHooks;	updateOn: Sets the default		
}	updateOn value for all child		
	NgModels below it unless		
	explicitly set by a child		
	NgModel using		
	ngModelOptions). Defaults		
	to 'change'. Possible values:		
	'change' 'blur'		
	'submit'.		
formDirective: Form	Read-Only		
	The directive instance.		

Property	Description		
control: FormGroup	Read-Only		
	The internal FormGroup		
	instance.		
path: string[]	Read-Only		
	Returns an array representing		
	the path to this group.		
	Because this directive always		
	lives at the top level of a		
	form, it is always an empty		
	array.		
controls: {	Read-Only		
[key: string]:	Returns a map of the controls		
AbstractControl;	in this group.		
}			

Inherited from ControlContainer

```
name: string | number | null
formDirective: Form | null
path: string[] | null
```

Inherited from AbstractControlDirective

```
abstract control: AbstractControl | null
value: any
valid: boolean | null
invalid: boolean | null
pending: boolean | null
disabled: boolean | null
enabled: boolean | null
errors: ValidationErrors | null
pristine: boolean | null
dirty: boolean | null
touched: boolean | null
status: string | null
untouched: boolean | null
statusChanges: Observable<any> | null
valueChanges: Observable<any> | null
path: string[] | null
validator: ValidatorFn | null
asyncValidator: AsyncValidatorFn | null
```

Template variable references

Identifier	Usage
ngForm	<pre>#myTemplateVar="ngForm"</pre>

Description

As soon as you import the FormsModule, this directive becomes active by default on all <form> tags. You don't need to add a special selector.

You optionally export the directive into a local template variable using ngForm as the key (ex: #myForm="ngForm"). This is optional, but useful. Many properties from the underlying FormGroup instance are duplicated on the directive itself, so a reference to it gives you access to the aggregate value and validity status of the form, as well as user interaction properties like dirty and touched.

To register child controls with the form, use NgModel with a name attribute. You may use NgModelGroup to create sub-groups within the form.

If necessary, listen to the directive's ngSubmit event to be notified when the user has triggered a form submission. The ngSubmit event emits the original form submission event.

In template driven forms, all <form> tags are automatically tagged as NgForm. To import the FormsModule but skip its usage in some forms, for example, to use native HTML5 validation, add the ngNoForm and the <form> tags won't create an NgForm directive. In reactive forms, using ngNoForm is unnecessary because the <form> tags are inert. In that case, you would refrain from using the formGroup directive.

Listening for form submission

The following example shows how to capture the form values from the "ngSubmit" event.

```
import {Component} from '@angular/core';
import {NgForm} from '@angular/forms';
@Component({
  selector: 'example-app',
  template:
    <form #f="ngForm" (ngSubmit)="onSubmit(f)"</pre>
novalidate>
      <input name="first" ngModel required</pre>
#first="ngModel">
      <input name="last" ngModel>
      <button>Submit
    </form>
    First name value: {{ first.value }}
    First name valid: {{ first.valid }}
    Form value: {{ f.value | json }}
    Form valid: {{ f.valid }}
})
export class SimpleFormComp {
  onSubmit(f: NgForm) {
    console.log(f.value); // { first: '', last: '' }
    console.log(f.valid); // false
  }
}
```

Setting the update options

The following example shows you how to change the "updateOn" option from its default using ngFormOptions.

Native DOM validation UI

In order to prevent the native DOM form validation UI from interfering with Angular's form validation, Angular automatically adds the novalidate attribute on any <form> whenever FormModule or ReactiveFormModule are imported into the application. If you want to explicitly enable native DOM validation UI with Angular forms, you can add the ngNativeValidate attribute to the <form> element:

```
<form ngNativeValidate>
...
</form>
```

Methods

addControl()





Method that sets up the control directive in this group, re-calculates its value and validity, and adds the instance to the internal list of directives.

```
addControl(dir: NgModel): void
```

Parameters

dir NgModel The NgModel directive instance.

Returns

void

getControl()





Retrieves the FormControl instance from the provided NgModel directive.

```
getControl(dir: NgModel): FormControl
```

Parameters

dir NgModel The NgModel directive instance.

Returns

removeControl()





Removes the NgModel instance from the internal list of directives

removeControl(dir: NgModel): void

Parameters

dir NgModel The NgModel directive instance.

Returns

void

addFormGroup()





Adds a new NgModelGroup directive instance to the form.

addFormGroup(dir: NgModelGroup): void

Parameters

dir

NgModelGroup The NgModelGroup directive instance.

Returns

void

removeFormGroup()





Removes the NgModelGroup directive instance from the form.

```
removeFormGroup(dir: NgModelGroup): void
```

Parameters

dir NgModelGroup The NgModelGroup directive

instance.

Returns

void

getFormGroup()





Retrieves the FormGroup for a provided NgModelGroup directive instance

```
getFormGroup(dir: NgModelGroup): FormGroup
```

Parameters

dir NgModelGroup The NgModelGroup directive

instance.

Returns

FormGroup

updateModel()



<>

Sets the new value for the provided NgControl directive.

```
updateModel(dir: NgControl, value: any): void
```

Parameters

dir	NgControl	The	NgControl	directive instance.
-----	-----------	-----	-----------	---------------------

value any The new value for the directive's control.

Returns

void

setValue()





Sets the value for this FormGroup.

```
setValue(value: { [key: string]: any; }): void
```

Parameters

value object The new value

Returns

void

onSubmit()



<>

Method called when the "submit" event is triggered on the form.

Triggers the ngSubmit emitter to emit the "submit" event as its payload.

onSubmit(\$event: Event): boolean

Parameters

\$event Event The "submit" event object

Returns

boolean

onReset()





Method called when the "reset" event is triggered on the form.

onReset(): void

Parameters

There are no parameters.

Returns

void

resetForm()



Resets the form to an initial value and resets its submitted status.

```
resetForm(value: any = undefined): void
Parameters
             any
                    The new value for the form.
  value
                    Optional. Default is undefined.
Returns
```

void

Inherited from AbstractControlDirective

```
reset(value: any = undefined): void
hasError(errorCode: string, path?: string | (string |
number)[]): boolean
getError(errorCode: string, path?: string | (string |
number)[]): any
```

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