

# @angular/forms

3. Building forms using Template Driven approach

#### Template Driven



- In previous lesson we learned that one of the toolset angular gives us for dealing with forms is the template driven approach
- With template driven approach we describe the structure of the form using NgForm, NgModel directives
- Instead of FormGroup we have a directive that hides the FormGroup called NgForm
- Instead of FormControl we have a directive that hides the FormControl called NgModel

#### NgForm



- The selector of this directive is the <form> tag
- The directive will be added to every form tag when you add the FormsModule to the imports array

```
export declare class NgForm extends ... {
  readonly submitted: boolean;
  form: FormGroup;
  ngSubmit: EventEmitter<any>;
  get controls(): {
    [key: string]: AbstractControl;
 // from inheritance we get these methods as well
  get valid(): boolean | null;
  get invalid(): boolean | null;
  reset(value?: any): void;
```

#### NgForm



- The ngForm creates a FormGroup for the form
- It will attach controls to the FormGroup
- It will track the status of the form
- Has a submit Event
- The directive also disables HTML5 validation on the form

#### ngSubmit



- @Output on the NgForm directive, use this event to subscribe to form submission
- \$event will be the original form submission event
- Safer to use than the original submit method

# NgModel



- NgModel can be used for 2 way binding
- NgModel can be used to add control to NgForm

#### NgModel



- NgModel creates a form control and binds it with the input
- It will manage the form control status, validation and values for us

```
export declare class NgModel extends ... {
  readonly control: FormControl;
  name: string;

  // from inheritance we get these methods as well
  get valid(): boolean | null;
  get invalid(): boolean | null;
  reset(value?: any): void;
}
```

# NgModel - 2 way binding



NgModel can be used for 2 way binding by wrapping it with: [(ngModel)]="var"

# NgModel - adds control to NgForm



- NgModel wrapped in form will add a control to NgForm
- The control is registered under the name attribute name is required

# Grab NgForm in Template reference variable



- You can grab ngForm with Template Reference Variable
- Can be useful to display error messages
- Can be useful to grab form values with no need for 2 way binding

#### Summary



- The template driven approach provides us with the ngModel and NgForm for building our form
- The NgForm is added automatically for the form tag
- We can use it to connect to (ngSubmit)
- NgModel will register a control with the NgForm using the name attribute
- NgModel can also be for 2 way binding



# Thank You

Next Lesson: 4. Reactive forms