

Angular 2 Forms Cheat Sheet by Nathan (Nathane2005) via cheatography.com/28056/cs/8477/

Introduction

A form creates a cohesive, effective, and compelling data entry experience. An Angular form coordinates a set of data-bound user controls, tracks changes, validates input, and presents errors.

Form

<form>

.... tags that include all input

</form>

All forms are placed within the HTML form tags

Standard Input Types

Text Input <input type="text"> **Email Input** <input type="email"> Password <input type="password"> Input

Dropdown <select> Selection <option

value="volvo">Volvo</option>

<option

value="saab">Saab</option>

<option

value="opel">Opel</option>

<option

value="audi">Audi</option>

</select>

Multi <select multiple>

Selection <option

value="volvo">Volvo</option>

<option

value="saab">Saab</option>

<option

value="opel">Opel</option>

<option

value="audi">Audi</option>

</select>

Checkbox <input type="checkbox">

Radio Control <input type="radio">

Numeric Input <input type="number">

Multiline Input <textarea rows="4"

cols="50"></textarea>

<input type="date">

Angular 2 Form - Elements

FormGroup A FormGroup aggregates the values of each child FormControl into one object, with

each control name as the key

FormContr Tracks the value and validation

> status of an individual form control. It is one of the three fundamental building blocks of

Angular forms

FormArray Tracks the value and validity

state of an array of FormControl instances. A FormArray aggregates the values of each

child FormControl into an array

FormBuilde Creates an AbstractControl from

a user-specified configuration. It is essentially syntactic sugar that shortens the new FormGroup(), new FormControl(), and new FormArray() boilerplate that can

build up in larger form

Requires use of FormModule

Reactive Form Names

Used to reference a group of formGrou

pName elements

formContr Similar to ngModel reference to a olName name but simpler from a naming convention perspective

formArray Syncs a nested FormArray to a Name

DOM element.

Requires the use of the ReactiveFormsModule Module

Handling Submission Event

```
<form (ngSubmit)="onSubmit()">
</form>
```

Standard Validation

Mandatory	Validators.required
Minimum Length	Validator.minLength(size)
Maximum Length	Validators.maxLength(size)
Pattern Match	Validators.pattern("regEx")

Custom Validators

```
function {name} (control :
FormControl) : {[s: string] :
boolean} {
.... function body....
pass return a null
fail return an object of type {key
: true}
```

Displaying Validator Failures

```
<label for="name">Name</label>
        <input type="text"</pre>
class="form-control" id="name"
               required
                [(ngModel)]="model.
name" name="name"
                #name="ngModel" >
        <div [hidden]="name.valid
|| name.pristine"
             class="alert
alert-danger">
          Name is required
        </div>
```



Date

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Workflow

Steps to creating a reactive form:

- 1. Create the Domain Model
- 2. Create the Controller with references to View
- 3. Create the View
- 4. Add Validations
- 5. Add Submit Validation Control
- 6. Add Dynamic Behaviors

Model

```
export interface {ModelName} {
   item(? : optional) : string |
number | date | boolean | class |
interface ([] : array);
}
```

Controller

```
let style =
require('./someStyle.css');
let template =
require("./someTemplate.html");
@Component({
  styles:[style],
  template: template
export class {Some}Form implements
OnInit{
 myForm: FormGroup;
  constructor(private fb :
FormBuilder) {};
  ngOnInit() {
   //Construct the form data type
   this.myForm: this.fb.group({
       'controlName' :
this.fb.control(...),
       'controlArray' :
this.fb.array([...]),
       'controlGroup' :
this.fb.group({})
 });
 }
 onSubmit() {
```

Controller (cont)

```
myForm.value; //returns the form
values

myModel =
<MyModel>myForm.value;//Cast to
object
}
}
```

Typical additions include:

- 1. Http Service Submission (delegate normally injected)
- 2. Pipes for Display customization
- 3. Model based Validators

View

Useful Blocks

```
-- Get Form Items

JSON.stringify(myForm.value)
```

Useful Links

```
Angular Forms
TypeScript Basic Types
HTML Inputs
```



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