Cross Field or Multi Field Validation Angular

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Angular Async Validator

Angular Tutorial

SetValidators ____

- 1. Start date & end date fields. The end date must be greater than the start date.
- 2. Password confirmation. The new password must match the confirm password.

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Validation Recap

We assign a validator's to a form filed, using the second argument of the <u>FormControl</u> as shown below. You can also attach an <u>Async Validator</u> as the third argument.

```
this.contactForm = new FormGroup({
    userName: new FormControl(",[Validators.required,customValidator]),
```

The above syntax using the FormBuilder.

```
this.contactForm = this.builder.group({
    userName: ["", [Validators.required,customValidator]],
}
```

The Validator will run only when we change the value of userName and Validates only the userName field.

Cross Field Validation

When we validate the multiple fields, we need to ensure that our validation logic runs for each of those fields.

Hence we attach the validator to the <u>Formgroup</u> instead of <u>FormControl</u>. The Validator runs whenever we modify any of the fields in the FormGroup.

Example

Let us create a matchPassword <u>custom validator</u> to compare the password & confirm Password fields.

Since we attach it to a FormGroup, it gets the instance of FormGroup as its parameter. We can use the get method to get the values of both password & confirm FormControls. If they do not match then return the ValidationErrors. Return null if it values passes the Validation.

```
1
 2
     matchPassword(control: AbstractControl): ValidationErrors | null {
 3
 4
      const password = control.get("password").value;
 5
      const confirm = control.get("confirm").value;
 6
 7
      if (password != confirm) { return { 'noMatch': true } }
 8
 9
10
      return null
11
12
     }
13
```

We attach the matchPassword Validator to FormGroup using its second argument as shown below.

```
this.mainForm = this.builder.group({
   userName: ["", [Validators.required]],
   password: ["", [Validators.required, Validators.minLength(5)]],
   confirm: ["", [Validators.required]]
}, { validator: this.matchPassword });
```

The FormGroup also allows us the add more than one validator using the Validators.compose method.

```
1
 2
       this.mainForm = this.builder.group({
 3
        userName: ["", [Validators.required]],
        password: ["", [Validators.required, Validators.minLength(5)]],
 4
        confirm: ["", [Validators.required]]
 5
 6
       }, {
 7
        validator: Validators.compose(
 8
 9
           this.matchPassword,
           Validators.required
10
11
12
        )
13
       });
```

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Passing Parameter

You can also pass the parameter to the Multiple Field Validator.

In the following example, we pass the name of the

```
this.mainForm = this.builder.group({
    userName: ["", [Validators.required]],
    password: ["", [Validators.required, Validators.minLength(5)]],
    confirm: ["", [Validators.required]]
}, { validator: this.matchPassword2('password', 'confirm') });
```

```
1
 2
     matchPassword2(firstControl, secondControl): ValidatorFn {
 3
 4
      return (control: AbstractControl): ValidationErrors | null => {
 5
 6
        const password = control.get(firstControl).value;
 7
        const confirm = control.get(secondControl).value;
 8
 9
        if (password != confirm) { return { 'noMatch': true } }
10
11
        return null
12
13
      }
14
     }
15
```

Refer to the <u>Custom Validator with Parameters in Angular</u>. Also refer to the tutorial on how to inject service into a Validator.

Reference

1. Cross fields Validation