

# Exercise (Instructions): Angular Reactive Forms Part 2

## Objectives and Outcomes

In this exercise you will learn about adding form validation to your reactive forms in Angular. You will show validation error messages to the users within the form. At the end of this exercise you will be able to:

- Add in form validation support to your reactive forms
- Show validation error messages to the users

## Add Form Validation

- Open `contact.component.ts` and update the Form Model as shown below:

```
1  createForm() {
2    this.feedbackForm = this.fb.group({
3      firstname: ['', Validators.required ],
4      lastname: ['', Validators.required ],
5      telnum: ['', Validators.required ],
6      email: ['', Validators.required ],
7      agree: false,
8      contacttype: 'None',
9      message: ''
10   });
11 }
12
13 onSubmit() {
14   this.feedback = this.feedbackForm.value;
15   console.log(this.feedback);
16   this.feedbackForm.reset({
17     firstname: '',
18     lastname: '',
19     telnum: '',
20     email: '',
21     agree: false,
22     contacttype: 'None',
23     message: ''
24   });
25 }
```

- Update the form in the `contact.component.html` file as follows:

```

1      <form novalidate [formGroup]="feedbackForm" (ngSubmit)="onSubmit()">
2          <p>
3              <md-input-container class="half-width"
4                  dividerColor="{{(feedbackForm.get('firstname').hasError('required')
5                      && feedbackForm.get('firstname').touched) ? 'warn' : 'primary'}}"
6                  >
7                  <input mdInput formControlName="firstname" placeholder="First
8                      Name" type="text" required>
9                  <md-hint>
10                     <span [hidden]="!(feedbackForm.get('firstname').hasError
11                         ('required') && feedbackForm.get('firstname').touched)">
12                         firstname is required</span>
13                     </md-hint>
14                 </md-input-container>
15                 <md-input-container class="half-width"
16                     dividerColor="{{(feedbackForm.get('lastname').hasError('required')
17                         && feedbackForm.get('lastname').touched) ? 'warn' : 'primary'}}">
18                     <input mdInput formControlName="lastname" placeholder="Last Name"
19                         type="text" required>
20                     <md-hint>
21                         <span [hidden]="!(feedbackForm.get('lastname').hasError
22                             ('required') && feedbackForm.get('lastname').touched)">
23                             lastname is required</span>
24                         </md-hint>
25                     </md-input-container>
26                 </p>
27                 <p>
28                     <md-input-container class="half-width"
29                         dividerColor="{{(feedbackForm.get('telnum').hasError('required') &&
30                             feedbackForm.get('telnum').touched) ? 'warn' : 'primary'}}">
31                     <input mdInput formControlName="telnum" placeholder="Tel. Number"
32                         type="tel" required>
33                     <md-hint>
34                         <span [hidden]="!(feedbackForm.get('telnum').hasError('required')
35                             && feedbackForm.get('telnum').touched)">
36                             Tel. number is required</span>
37                         </md-hint>
38                     </md-input-container>
39                     <md-input-container class="half-width"
40                         dividerColor="{{(feedbackForm.get('email').hasError('required') &&
41                             feedbackForm.get('email').touched) ? 'warn' : 'primary'}}">
42                     <input mdInput formControlName="email" placeholder="Email" type
43                         ="email" required>
44                     <md-hint>
45                         <span [hidden]="!(feedbackForm.get('email').hasError('required')
46                             && feedbackForm.get('email').touched)">
47                             Email ID is required</span>
48                         </md-hint>
49                     </md-input-container>
50                 </p>
51                 <table class="form-size">
52                     <tr>
53                         <td>
54                             <md-slide-toggle formControlName="agree">May we contact you?</md
55                                 -slide-toggle>
56                         </td>
57                         <td>
58                             <md-select placeholder="How?" formControlName="contacttype">
59                                 <md-option *ngFor="let ctype of contactType" [value]="ctype">
60                                     {{ ctype }}
61                                 </md-option>
62                             </md-select>
63                         </td>
64                     </tr>
65                 </table>
66                 <p>
67                     <md-input-container class="full-width">
68                         <textarea mdInput formControlName="message" placeholder="Your
69                             Feedback" rows=12></textarea>
70                     </md-input-container>
71                 </p>
72                 <button type="submit" md-button class="background-primary text-floral

```

- Save the changes and do a Git commit with the message "Reactive Forms Part 2"

## Conclusions

In this exercise you have added form validation and displaying form error messages to the users in your reactive form.

Mark as completed

