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## Exercise (Instructions): Angular Reactive Forms Part 1

## **Objectives and Outcomes**

In this exercise you will learn about using Angular reactive forms in your Angular application. At the end of this exercise you will be able to:

• Design a reactive form in your Angular application.

## Importing the Reactive Forms Module

 You will start out by importing the ReactiveFormsModule from @angular/forms into your AppModule as follows:

You will then create a new file named feedback.ts in the shared folder and update its contents as follows:

```
export class Feedback {
        firstname: string;
 3
        lastname: string;
        telnum: number;
 5
        email: string;
        agree: boolean;
 7
        contacttype: string;
 8
        message: string;
9
   };
10
    export const ContactType = ['None', 'Tel', 'Email'];
```

## Creating the Reactive Form

• Open the contact.component.ts file and update it as follows to create the reactive form in the code:

```
2
    import { FormBuilder, FormGroup, Validators } from '@angular/forms';
 3
 4
    import { Feedback, ContactType } from '../shared/feedback';
 5
 6
 7
8
    export class ContactComponent implements OnInit {
9
10
      feedbackForm: FormGroup;
      feedback: Feedback;
11
12
      contactType = ContactType;
13
      constructor(private fb: FormBuilder) {
14
15
        this.createForm();
16
17
18
      ngOnInit() {
19
20
21
      createForm() {
22
        this.feedbackForm = this.fb.group({
          firstname: '',
lastname: '',
23
24
25
          telnum: 0,
          email: '',
26
27
          agree: false,
          contacttype: 'None',
28
29
          message: ''
30
        });
31
      }
32
33
      onSubmit() {
34
        this.feedback = this.feedbackForm.value;
35
        console.log(this.feedback);
36
        this.feedbackForm.reset();
37
      }
38
39
    }
```

• Then open contact.component.html and add the reactive form to it as follows:

```
<div fxFlex fxFlexOffset="20px" class="form-size">
 1
 2
            <h3>Send us your Feedback</h3>
 3
            {{ feedbackForm.value | json }} {{ feedbackForm.status | json }}
 4
 5
            <form novalidate [formGroup]="feedbackForm" (ngSubmit)="onSubmit()">
 6
              >
 7
                <md-input-container class="half-width">
 8
                  <input mdInput formControlName="firstname" placeholder="First</pre>
                    Name" type="text" required>
9
                </md-input-container>
10
                <md-input-container class="half-width">
11
                  <input mdInput formControlName="lastname" placeholder="Last Name"</pre>
                    type="text" required>
12
                </md-input-container>
13
              14
              >
                <md-input-container class="half-width">
15
16
                  <input mdInput formControlName="telnum" placeholder="Tel. Number"</pre>
                    type="tel" required>
17
                </md-input-container>
18
                <md-input-container class="half-width">
                  <input mdInput formControlName="email" placeholder="Email" type</pre>
19
                    ="email" required>
20
                </md-input-container>
21
              22
              23
                24
                <md-slide-toggle formControlName="agree">May we contact you?</md
                  -slide-toggle>
25
                26
                27
                <md-select placeholder="How?" formControlName="contacttype">
28
                  <md-option *ngFor="let ctype of contactType" [value]="ctype">
29
                    {{ ctype }}
30
                  </md-option>
31
                </md-select>
32
                33
                34
              >
35
                <md-input-container class="full-width">
36
                  <textarea mdInput formControlName="message" placeholder="Your</pre>
                    Feedback" rows=12></textarea>
37
                </md-input-container>
38
39
              <button type="submit" md-button class="background-primary text-floral</pre>
                -white">Submit</button>
40
            </form>
41
          </div>
```

Add the following CSS classes to contact.component.scss file:

```
.full-width {
 2
         width: 95%
 3
 4
 5
    .half-width {
 6
        width: 45%
 7
 8
9
    .form-size {
        width: 75%
10
11
```

Save all changes and do a Git commit with the message "Reactive Forms Part 1".

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