Exercise (Instructions): Angular Forms and Form Validation

Exercise Resources

contactus.html

Objectives and Outcomes

In this exercise, you will learn more about Angular support for forms and form validation. You will also learn to use JavaScript to perform form validation. At the end of this exercise, you will be able to:

- Use Angular support for HTML forms
- Establish two-way data binding between form fields and JavaScript variables and object properties.
- Use Angular's support for form validation
- Use JavaScript to perform form validation in Angular.

Setting up the Exercise

• Download contactus.html given above and put it in your *conFusion/app* folder. Open the page for editing.

Adding Angular Forms Support

• Update the <html> tag to turn the page into an Angular app as follows:

```
<html lang="en" ng-app="confusionApp">
```

• Next, go to the body of the page, update the container div as follows:

```
<div class="container" ng-controller="ContactController">
```

• Next, go to the form, and update the enclosing div as follows:

<div class="col-xs-12 col-sm-9" ng-controller="FeedbackController">

Adding Controllers

 Open app.js and at the bottom of this page, add the two new controllers that we used in the page by inserting the following code:

Establishing Two-Way Data Binding

• Update the firstName input field as follows:

· Update the lastName input field as follows:

Update the telephone number fields as follows:

```
<div class="form-group">
```

```
<label for="telnum" class="col-sm-2 control-label">Contact Tel.
label>
                        <div class="col-xs-5 col-sm-4 col-md-3">
                             <div class="input-group">
                                 <div class="input-group-addon">(</div>
                                     <input type="tel" class="form-control" placeholder="A</pre>
rea code"
                                              ng-model="feedback.tel.areaCode">
                                 <div class="input-group-addon">)</div>
                             </div>
                        </div>
                        <div class="col-xs-7 col-sm-6 col-md-7">
                                     <input type="tel" class="form-control" id="telnum" na</pre>
me="telnum" placeholder="Tel. number"
                                     ng-model="feedback.tel.number">
                        </div>
                    </div>
```

· Update the Email field as follows:

· Update the check box as follows:

Update the textarea as follows:

Update the small column to the right of the feedback form as follows:

```
<div class="col-xs-12 col-sm-3">
    <h3>Your Current Feedback:</h3>
    {feedback.firstName}} {{feedback.lastName | uppercase }}
    Contact Tel.: ({{feedback.tel.areaCode}}) {{feedback.tel.number}}
    Contact Email: {{feedback.email}}
    q ng-show="feedback.agree">Contact by: {{feedback.mychannel}}
    Comments: {{feedback.comments}}
    </div>
```

Angular Form Validation

Update the <form> tag as follows:

```
<form class="form-horizontal" name="feedbackForm" ng-submit="sendFeedback
()" novalidate>
```

Next, update the firstName form group as follows:

Update the lastname form group as follows:

• Then, update the emailed field as follows:

Update the checkbox and select form group as follows:

Update the button in the form as follows:

• Save the contactus.html file, and then open the app.js file. Update the controller code as follows:

```
.controller('ContactController', ['$scope', function($scope) {
            $scope.feedback = {mychannel:"", firstName:"", lastName:"", agree:false, emai
l:"" };
                        var channels = [{value:"tel", label:"Tel."}, {value:"Email", label
:"Email"}];
                        $scope.channels = channels;
            $scope.invalidChannelSelection = false;
                                }])
        .controller('FeedbackController', ['$scope', function($scope) {
                        $scope.sendFeedback = function() {
                                console.log($scope.feedback);
                                if ($scope.feedback.agree && ($scope.feedback.mychannel =
= "")) {
                    $scope.invalidChannelSelection = true;
                    console.log('incorrect');
                else {
                    $scope.invalidChannelSelection = false;
                    $scope.feedback = {mychannel:"", firstName:"", lastName:"",
                                       agree:false, email:"" };
```

```
$scope.feedback.mychannel="";

$scope.feedbackForm.$setPristine();

console.log($scope.feedback);
}

};

}]);
```

• Save the file and then go and see the behavior of the web page.

Conclusions

In this exercise, you learnt about Angular support for forms and form validation. You also learnt about doing form validation in the controller code using JavaScript.