Chapter 6  
***Listing 6-1.*** A Group of radio Buttons

<div>

<input type="radio" **name="station"** id="rad1" value="triple-m"/> <label for="rad1">Triple M</label>

</div>

<div>

<input type="radio" **name="station"** id="rad2" value="today-fm"/> <label for="rad2">Today FM</label>

</div>

<div>

<input type="radio" **name="station"** id="rad3" value="abc-news"/> <label for="rad3">ABC News</label>

</div>

<div>

<input type="radio" **name="station"** id="rad4" value="triple-j"/> <label for="rad4">Triple J</label>

</div>

***Listing 6-2.*** Two Very Similar select elements, Two Very Different Outcomes

<!-- this renders as a drop down lst -->

<select name="favorite-food" id="favorite-food">

<option>Eggs</option>

<option>Fish</option>

<option>Bread</option>

</select>

<!-- this renders as a all-in-one list -->

<select name="favorite-food" id="favorite-food" multiple >

<option>Eggs</option>

<option>Fish</option>

<option>Bread</option>

</select>

***Listing 6-3.*** Using the First option Element As a Prompt

<select name="favorite-food" id="favorite-food">

<option value="">Choose your favorite food</option>

<option value="eggs">I love Eggs!</option>

<option value="fish">Fish is my fave!</option>

<option value="bread">Bread rocks!</option>

</select>

***Listing 6-4.*** Setting Some Model Properties on the Scope angular.module("myapp", [])

.controller("MyController", function ($scope) {

var person = { firstName:"Jimmy",

age: 21, address:{

street: '16 Somewhere Drive', suburb: 'Port Kennedy', state: 'Western Australia'

}

}

$scope.person = person;

});

***Listing 6-5.*** ngModel in Action

<div ng-app="myapp">

<div ng-controller="MyController">

<form name="theForm">

<input type="text" name="firstName" ng-model="**person.firstName**"/><br/> <input type="text" name="firstName" ng-model="**person.address.street**"/>

</form>

<p>

First name is: {{person.firstName}} <br/>

Street name is: {{person.address.street}}

</p>

</div>

</div>

***Listing 6-6.*** Implict Model Binding—HTML Code

<div ng-app="myapp" ng-controller="MyController">

<form name="theForm">

<div>

<input type="text" name="firstName" **ng-model="firstName"**> <br/>

<input type="button" value="Show first name" ng-click="showFirstName()"/>

</div>

</form>

</div>

***Listing 6-7.*** Implict Model Binding—Controller Code angular.module("myapp", [])

.controller("MyController", function ($scope) {

$scope.showFirstName = function(){ alert("Name is: " + **$scope.firstName**);

}

});

***Listing 6-8.*** Coding Defensively

$scope.showFirstName = function(){ if(**angular.isDefined($scope.firstName))**{ alert("Name is: " + $scope.firstName);

}else{

alert("Name is empty, please enter a value");

}

}

***Listing 6-9.*** First-Draft HTML Code for a User Registration Form

<div ng-app="myapp" ng-controller="MyController">

<form name="registrationForm">

<input type="text" placeholder="First Name" name="firstName" ng-model="person.firstName" required>

<br/>

<input type="text" placeholder="Last Name" name="lastName" ng-model="person.lastName" required>

<br/>

<input type="email" placeholder="Email" name="email" ng-model="person.email" required>

<br/>

<select name="channels" ng-model="person.channels"

<option value="">Where did you hear about us?</option>

</select>

<br/>

<input ng-model="person.newsletterOptIn" type="checkbox" name="newsletterOptIn"

id="newsletterOptIn" value="newsletterOptIn"/>

<label for="newsletterOptIn">Recieve monthly

newsletter</label>

<br/>

<input type="submit" value="Register">

</form>

</div>

***Listing 6-10.*** The Controller Code Driving the select Element

angular.module("myapp", []) .controller("MyController", function ($scope) {

$scope.person = {};

$scope.person.channels = [

{ value: "television", label: "Television" },

{ value: "radio", label: "Radio" },

{ value: "social-media", label: "Social Media"},

{ value: "other", label: "Other"}

];

});

***Listing 6-11.*** Using the ngOptions Directive to Generate Options

<select name="channels" ng-model="person.channels"

**ng-options="obj.value as obj.label for obj in person.channels"**>

option value="">Where did you hear about us?</option>

</select>

***Listing 6-12.*** The Controller Code Driving the Check Box angular.module("myapp", []) .controller("MyController", function ($scope) {

$scope.person = {}; **$scope.person.newsletterOptIn = false;**

$scope.person.channels = [

{ value: "television", label: "Television" },

{ value: "radio", label: "Radio" },

{ value: "social-media", label: "Social Media"},

{ value: "other", label: "Other"}

];

});

***Listing 6-13.*** Adding the submit Handler angular.module("myapp", []) .controller("MyController", function ($scope) {

$scope.person = {};

$scope.person.newsletterOptIn = false;

$scope.person.channels = [

{ value: "television", label: "Television" },

{ value: "radio", label: "Radio" },

{ value: "social-media", label: "Social Media"},

{ value: "other", label: "Other"}

];

**$scope.person.register = function () {**  <!-- **pending implementation** -->

**}**

});

***Listing 6-14.*** The Form Code

<div ng-app="myapp" ng-controller="MyController">

<form name="registrationForm" ng-submit="person.register()">

<input type="text" placeholder="First Name" name="firstName" ng-model="person.firstName" required>

<br/>

<input type="text" placeholder="Last Name" name="lastName" ng-model="person.lastName" required>

<br/>

<input type="email" placeholder="Email" name="email" ng-model="person.email" required>

<br/> <select name="level" ng-model="person.levels"

ng-options="obj.label as obj.value for obj in person.channels">

<option value="">Where did you hear about us?</option>

</select>

<br/>

<input ng-model="person.newsletterOptIn" type="checkbox" name="newsletterOptIn"

id="newsletterOptIn" value="newsletterOptIn"/>

<label for="newsletterOptIn">Recieve monthly newsletter</label>

<br/>

<input type="submit" value="Register" ng-click="person.register()">

</form>

</div>

***Listing 6-15.*** The AngularJS Code angular.module("myapp", []) .controller("MyController", function ($scope) {

var person = {};

person.newsletterOptIn = false;

person.channels = [

{ value: "television", label: "Television" },

{ value: "radio", label: "Radio" },

{ value: "social-media", label: "Social Media"},

{ value: "other", label: "Other"}

];

person.register = function () { <!-- pending implementation -->

}

});

***Listing 6-16.*** Validating Required Fields and Showing Feedback to the User

<input type="text" placeholder="First Name" name="firstName" ng-model="person.firstName" **required**>

<span ng-show="firstNameInvalid">Please enter a value for First name</span>

<br/>

<input type="text" placeholder="Last Name" name="lastName" ng-model="person.lastName" **required**>

<span ng-show="lastNameInvalid">Please enter a value for Last name</span>

***Listing 6-17.*** The Registration Method with Some Validation in Place

$scope.register = function () {

$scope.firstNameInvalid = false;

$scope.lastNameInvalid = false;

if(!$scope.registrationForm.firstName.$valid){

$scope.firstNameInvalid = true;

}

if(!$scope.registrationForm.lastName.$valid){

$scope.lastNameInvalid = true;

}

if($scope.registrationForm.$valid){ <!-- pending implementation -->

}

}

***Listing 6-18.*** The CSS, Including the AngularJS-Style Hooks Behind the Form body {

font: normal 16px/1.4 Georgia; } input:not([type='checkbox']), select {

width: 250px; } select, input { padding: 5px; margin-top: 12px; font-family: inherit; } input[type='submit'] { width: 264px; } form span { color: red; }

**input[name='email'].ng-dirty.ng-invalid {**

**color: red;**

**}**

**input[name='email'].ng-dirty.ng-valid {**

**color: green;**

**}**

***Listing 6-19.*** Registration Form—the HTML Code

<div ng-app="myapp" ng-controller="MyController">

<div ng-show="registrationForm.$pristine">Form input has not yet started</div>

<div ng-show="registrationForm.$dirty">Form input has started</div>

<form name="registrationForm" ng-submit="register()" novalidate>

<input type="text" placeholder="First Name" name="firstName" ng-model="person.firstName" required />

<span ng-show="firstNameInvalid"><br/>Please enter a value for First name</span>

<br/>

<input type="text" placeholder="Last Name" name="lastName" ng-model="person.lastName" required />

<span ng-show="lastNameInvalid"><br/>Please enter a value for Last name</span>

<br/>

<input type="email" placeholder="Email" name="email" ng-model="person.email" required />

<span ng-show="emailInvalid"><br/>A valid email address is required</span>

<br/>

<select name="research" ng-model="person.levels"

ng-options="obj.label as obj.value for obj in person.channels" required>

<option value="">Where did you hear about us?</option>

</select>

<span ng-show="researchInvalid"><br/>Please tell us where you heard about us</span>

<br/>

<input ng-model="person.newsletterOptIn" type="checkbox" name="newsletterOptIn"

id="newsletterOptIn" value="newsletterOptIn"/>

<label for="newsletterOptIn">Recieve monthly newsletter</label>

<br/>

<input type="submit" value="Register"/>

</form>

<div ng-show="doShow"> Thank you for taking the time to register!

</div>

</div>

***Listing 6-20.*** Regsitration Form—the JavaScript Code angular.module("myapp", [])

.controller("MyController", function ($scope) {

$scope.person = {};

$scope.person.newsletterOptIn = false;

$scope.person.channels = [

{ value: "television", label: "Television" },

{ value: "radio", label: "Radio" },

{ value: "social-media", label: "Social Media"},

{ value: "other", label: "Other"}

];

$scope.register = function () {

$scope.firstNameInvalid = false;

$scope.lastNameInvalid = false;

$scope.emailInvalid = false;

if(!$scope.registrationForm.firstName.$valid){

$scope.firstNameInvalid = true;

}

if(!$scope.registrationForm.lastName.$valid){

$scope.lastNameInvalid = true;

}

if(!$scope.registrationForm.email.$valid){

$scope.emailInvalid = true;

}

if(!$scope.registrationForm.research.$valid){

$scope.researchInvalid = true;

}

if($scope.registrationForm.$valid){ <!-- pending implementation -->

$scope.doShow = true;

}

}

});