Apply Bootstrap CSS to AngularJS Form

In the previous section, we created AngularJS form but did not apply CSS classes. Let's apply simple bootstrap CSS classes to make it responsive.

We will be applying following bootstrap CSS classes:

* **container:** Top level bootstrap class with fixed width and left margin.
* **form-horizontal:** Places labels to the left of input/select controls.
* **form-group:** wraps labels and controls in div for optimum spacing.
* **control-label:** groups labels and input/select controls.
* **form-control:** styles for input/textarea/select elements.
* **radio:** styles for radio element.
* **checkbox:** styles for checkbox element.
* **btn, btn-primary:** styles for button element.

# Validation in AngularJS

We created an HTML form in the previous section. Here, we will implement client side validation in AngularJS form.

AngularJS includes the following validation directives.

| Directive | Description |
| --- | --- |
| ng-required | Sets required attribute on an input field. |
| ng-minlength | Sets minlength attribute on an input field. |
| ng-maxlength | Sets maxlength attribute on an input field. Setting the attribute to a negative or non-numeric value, allows view values of any length. |
| ng-pattern | Sets pattern validation error key if the ngModel value does not match the specified RegEx expression. |

# AngularJS Validation CSS Classes

AngularJS includes following CSS classes to allow styling of form and input controls based on the state of form field.

| CSS Class | Description |
| --- | --- |
| ng-valid | Angular will set this CSS class if the input field is valid without errors. |
| ng-invalid | Angular will set this CSS class if the input does not pass validations. |
| ng-pristine | Angular will set this CSS class if a user has not interacted with the control yet. |
| ng-dirty | Angular will set this CSS class if the value of form field has been changed. |
| ng-touched | Angular will set this CSS class if a user tabbed out from the input control. |
| ng-untouched | Angular will set this CSS class if a user has not tabbed out from the input control. |
| ng-submitted | Angular will set this CSS class if the form has been submitted. |

Note that you must provide implementation of these CSS classes and include in your CSS file. AngularJS automatically includes these classes based on the current state of input controls.

# Bootstrap CSS Classes for Styling Validation Messages

In the previous section, we applied AngularJS built-in CSS classes to a form. Here, we will apply bootstrap CSS classes for styling form field error, warning, or validity.

Bootstrap includes following CSS classes for the form validation.

| Bootstrap CSS Class | Description |
| --- | --- |
| has-error | Set this CSS class when a form field becomes invalid based on applied validation attributes. |
| has-warning | Set this CSS class to display warning for a form field. |
| has-success | Set this CSS class when a form field becomes valid based on applied validation attributes. |