**Angular Form Validation**

* ***Validation is process of verifying the user input.***
* ***Validation is required to insured that contradictory and unauthorized data is not get stored into the database.***
* ***Client side validation can be handled using patterns ,regular expressions and functions.***
* ***Angular provides predefined services to handle validation***

***The angular validation services are categories into two types***

* ***Form state validation services.***
* ***Input state validation services***

***1.Form state services:-***

***The form state validation can verify all input field form simulatnously***

***At the same time and return a Boolean value***

***The varies from data services are::***

|  |  |  |
| --- | --- | --- |
| Service | Property | Description |
| ngPristine | pristine | It verifies whether any field in the form have modified its value with user input its return true when no field modified. |
| ngDirty | dirty | It return Boolean true if any one field has been modify. |
| ngInvalid | invalid | It return true when at least one field is invalid. |
| ngValid | valid | It return true only when all field are valid. |
| ngSubmitted | submitted | It return true only when the form is submitted. |

Template Driven Forms

**In this kind of form, we can write the forms in Angular template syntax with form syntax directives.**

**Following are the steps to build template driven forms.**

1. **Create the component that controls the form.**
2. **Create a template with the initial form layout.**
3. **Bind data properties to each form control using the two-way data-binding syntax.**
4. **Add an attribute to each form-input control.**
5. **Add custom CSS to provide visual feedback.**
6. **Show and hide validation-error messages.**
7. **Handle form submission with ngSubmit.**
8. **Disable the form’s Submit button until the form is valid.**

***Huge Code in Template ,Less Code in .ts file***

***Simple Validation***

***Hard to test***

***Forms Module***