**Angular Forms**

* Form is a container that comprises of set of elements, which allow interaction with our application.
* Form provides an UI from where user can input, edit, delete, view data.
* HTML form comprises of elements like button, textbox, checkbox, radio, listbox etc.
* Angular makes the static HTML form into dynamic.
* HTML presents the form and Angular makes it interactive to handle client-side interactions.
* Based on where Angular is handling interactions the forms in angular are classified into 2 types
  + **Template Driven Forms**
  + **Model Driven Form / Reactive Form**

**Template Driven Forms**

* A template driven form configures and handles all interactions at View Level (HTML)
* Configuration of a form and its manipulation both handled in HTML template.
* Very optimized controller level interaction. All interactions are at view level.
* It reduces the number of requests to a component.
* It improves the page load time.
* It is good for forms designed in “in-line” technique.
* Template drive form is heavy on page. Slow in handling interactions and rendering.
* Hard to test and extend the form.
* Separation issues. Not loosely coupled.
* You can use template driven forms when you are designing an UI that doesn’t require regular extensions.
* The directives that are used to configure “Form and Form Elements” in template driven approach.
  + NgForm
  + NgModel
* **NgForm:** It provides a set of properties and methods that are used to configure and handle <form> element.
* **NgModel:** It provides a set of properties and methods that are used to configure and handle a form control like button, textbox, checkbox, radio, dropdown list, etc.
* The library for “NgForm and NgModel” is “@angular/forms”
* The module is “FormsModule”

**Configuring Form:**

<form #formName=”ngForm”>

</form>

* NgForm provides set of attributes
  + Value
  + pristine
  + dirty
  + valid
  + invalid
  + etc..

Syntax:

formName.value

formName.pristine

formName.dirty

**Configuring a Form Element**

* “NgModel” is used to make a static form control into dynamic.

<input type=”text” ngModel #txtName=”ngModel” name=”txtName”>

txtName.value

txtName.valid