**AngularJS**

* Javascript framework
* Open source
* Can be added to a HTML page with script tag
* It is a MVC based framework
* It is used in Single Page Application (SPA) projects

**Setup**:

* <https://angularjs.org/> -----> angular.min.js
* <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.4.8/angular.min.js"></script>

**Directives:**

* used to extend HTML
* AngularJS has a set of built-in directives which offers functionality to your applications.

**ng-app -**  directive defines an AngularJS application.

**ng-model** - defines the model/variable to be used in AngularJS application.

**ng-bind** - directive binds application data to the HTML view.

**ng-init** - directive initializes AngularJS application variables.

**ng-repeat** directive repeats an HTML element

Note: If we’ll not write ng-app directive, it will be treated as normal HTML.

**AngularJS Expressions**:

* written inside double braces: {{expression}}
* Eg. {{5 + 5}} or {{firstName + " " + lastName}}

**Angular Modules**

* container for the different parts of an application.
* Controllers always belong to a module.
* Example for creating a module:

varapp = angular.module("myApp", []);

**Data Binding**

* It is the synchronization between the model and the view.
* When data in the model changes, the view reflects the change, and when data in the view changes, the model is updated as well.

**Ng-model:**

* With the ng-model directive we can bind the value of an input field to a variable created in AngularJS.
* It can provide type validation for application data (number, e-mail, required)
* Can be used with input, select, textarea.