# Full stack Development Lab

### Week 13: Write a Program on ngModel in Angular

#### **Description:**

The ng-model directive binds the value of HTML controls (input, select, textarea) to application data.

## The ng-model Directive

With the ng-model directive you can bind the value of an input field to a variable created in AngularJS.

```
<div ng-app="myApp" ng-controller="myCtrl">
Name: <input ng-model="name">
  </div>
<script>
var app = angular.module('myApp', []);
app.controller('myCtrl', function($scope) {
    $scope.name = "John Doe";
});
</script>
```

# Two-Way Binding

The binding goes both ways. If the user changes the value inside the input field, the AngularJS property will also change its value:

```
<div ng-app="myApp" ng-controller="myCtrl">
Name: <input ng-model="name">
  <h1>You entered: {{name}}</h1>
</div>
```

# Validate User Input

The ng-model directive can provide type validation for application data (number, e-mail, required):

```
<form ng-app="" name="myForm">
Email:
<input type="email" name="myAddress" ng-model="text">
```

```
<span ng-show="myForm.myAddress.$error.email">Not a valid e-mail address</span>
</form>
```

In the example above, the span will be displayed only if the expression in the ng-show attribute returns true.

If the property in the ng-model attribute does not exist, AngularJS will create one for you.

# **Application Status**

The ng-model directive can provide status for application data (valid, dirty, touched, error):

```
<form ng-app="" name="myForm" ng-init="myText = 'post@myweb.com"'>
Email:
  <input type="email" name="myAddress" ng-model="myText" required>
  <h1>Status</h1>
  {{myForm.myAddress.$valid}}
  {{myForm.myAddress.$dirty}}
  {{myForm.myAddress.$touched}}
```

### **CSS Classes**

The ng-model directive provides CSS classes for HTML elements, depending on their status:

#### Example

```
<style>
input.ng-invalid {
  background-color: lightblue;
}

</style>
<body>

<form ng-app="" name="myForm">
Enter your name:
  <input name="myName" ng-model="myText" required>
</form>
```

The ng-model directive adds/removes the following classes, according to the status of the form field:

- ng-empty
- ng-not-empty
- ng-touched
- ng-untouched

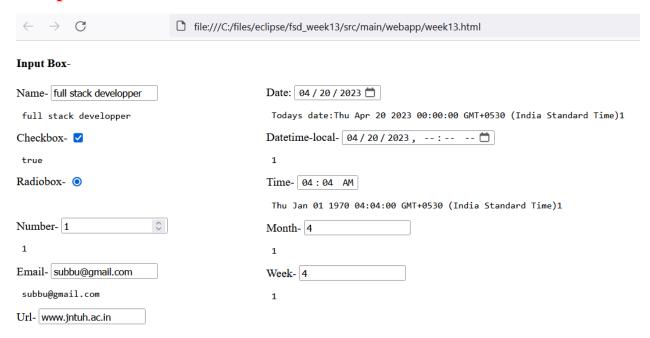
- ng-valid
- ng-invalid
- ng-dirty
- ng-pending
- ng-pristine

### **Program:**

```
<!DOCTYPE html>
<html>
<script src="angular.min.js">
</script>
<style>
.column {
     float: left;
     text-align: left;
     width: 49%;
}
.row {
     content: "";
     display: table;
</style>
<body ng-app="myApp" ng-controller="myController">
     <h4>Input Box-</h4>
     <div class="row">
           <div class="column">
                Name- <input type="text" ng-model="name">
                  {{ name }} 
                 <u>Checkbox</u>- <input type="checkbox" ng-model="check">
                  {{ check }} 
                 Radiobox- <input type="radio" ng-model="choice">
                  {{ choice }} 
                 Number- <input type="number" ng-model="num">
                  {{ <u>num</u> }} 
                 Email- <input type="email" ng-model="mail">
                 {{ mail }} 
                 Url- <input type="url" ng-model="url">
```

```
 {{ <u>url</u> }} 
           </div>
           <div class="column">
                 Date: <input type="date" ng-model="date1"
(change)="log(date1)">
                  Todays date:{{ date1+1 }}
                 Datetime-local- <input type="datetime-local" ng-
model="date2">
                  {{ date2+1 }} 
                 Time- <input type="time" ng-model="time1">
                  {{ time1+1 }} 
                 Month- <i nput type="month" ng-model="mon">
                  {{ mon+1 }} 
                 Week- <input type="week" ng-model="we">
                  {{ we+1 }} 
           </div>
     </div>
</body>
<script>
     var app = angular.module('myApp', []);
     app.controller('myController', function($scope) {
           $scope.name = "full stack developper";
           $scope.check = "";
           $scope.rad = "";
           $scope.num = "";
           $scope.mail = "";
           $scope.url = "";
           $scope.date1 = "";
           $scope.date2 = "";
           $scope.time1 = "";
           $scope.mon = "";
           $scope.we = "";
           $scope.choice = "";
           $scope.c = function() {
           $scope.choice = true;
           };
     });
</script>
</html>
```

#### **Output:**



**Result:** Thus, in the above program successfully executed without errors using angular JS in eclipse editor.