

Experiment 3

Aim-

1. Create a simple HTML “Hello World” Project using AngularJS Framework and apply ng-controller, ng-model and expressions.
2. Create an application like Students Record using AngularJS.

Theory-

AngularJS is a JavaScript framework written in JavaScript.

AngularJS is distributed as a JavaScript file, and can be added to a web page with a script tag:

```
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
```

AngularJS extends HTML with ng-directives.

The ng-app directive defines an AngularJS application.

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

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

```
<!DOCTYPE html>
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body>

<div ng-app="">
  <p>Name: <input type="text" ng-model="name"></p>
  <p ng-bind="name"></p>
</div>

</body>
</html>
```

AngularJS starts automatically when the web page has loaded.

The ng-app directive tells AngularJS that the <div> element is the "owner" of an AngularJS application.

The ng-model directive binds the value of the input field to the application variable name.

The ng-bind directive binds the content of the <p> element to the application variable name.

Output-

1. Create a simple HTML “Hello World” Project using AngularJS Framework and apply ng-controller, ng-model and expressions.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Hello</title>
  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
</head>
<body>
  <div ng-app="" >
    First Name:<input type="text" ng-model="fname">
    <!-- Last Name:<input type="text" ng-model="lname"> -->
    <h1>Hello {{fname}} </h1>
  </div>
</body>
</html>
```

First Name:

Hello

First Name:

Hello Mikil

Create an application like Students Record using AngularJS.

```
<!DOCTYPE html>
<html lang="en-US">
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>

<body>
  <h1 style="display: flex; justify-content: center; margin-top: 100px;"><u>Student
Details</u></h1>
  <div ng-app="checkboxApp" style="display: flex; justify-content: center;"
ng-controller="checkboxCtrl">
    <form name="myForm">
      <table>
        <tr>
          <td>First Name:</td>
          <td><input type="text" name="fname" ng-model="fname" required>
            <span style="color:red" ng-show="myForm.fname.$touched &&
myForm.fname.$invalid">First name is
              required.</span>
          </td>
        </tr>
        <tr>
          <td>Last Name:</td>
          <td><input type="text" required name="lname" ng-model="lname"
ng-minlength="3">
            <span style="color:red"
              ng-show="myForm.lname.$touched && (myForm.lname.$invalid ||
myForm.lname.$error.minlength)">Minimum
              3 characters required.</span>
          </td>
        </tr>
        <tr>
          <td>Email:</td>
          <td><input type="email" name="emailID" ng-model="emailID"
            ng-pattern=" /^[a-z]+[a-z0-9._-]*@[a-z]+\.[a-z.]{2,5}$/" required>
            <span style="color:red" ng-show="myForm.emailID.$error.pattern">Enter valid
email.</span>
          </td>
        </tr>
      </table>
    </div>
  </body>
```

```

<tr>
  <td>Date of Birth:</td>
  <td><input type="date" ng-model="dob"></td>
</tr>
<tr>
  <td>Gender:</td>
  <td>
    <select ng-model="gender" name="gender" required>
      <option value="Male" >Male</option>
      <option value="Female">Female</option>
    </select>
    <span style="color:red" ng-show="myForm.gender.$touched &&
myForm.gender.$invalid">Select your gender.</span>
  </td>
</tr>
<tr>
  <td>Training Type:</td>
  <td><input type="radio" name="radio1">Online</td>
</tr>
<tr>
  <td>
  <td><input type="radio" name="radio1">Offline</td>
</td>
</tr>
<tr>
  <td>Subject:</td>
  <td>
    <table>
      <tr>
        <td><input type="checkbox" ng-model="chksselct.sub1">AI&DS-1</td>
      </tr>
      <tr>
        <td><input type="checkbox" ng-model="chksselct.sub2">Web X.0</td>
      </tr>
      <tr>
        <td><input type="checkbox" ng-model="chksselct.sub3">DMBI</td>
      </tr>
      <tr>
        <td><input type="checkbox" ng-model="chksselct.sub4">WT</td>
      </tr>
    </table>
  </td>
</tr>

```

```

        <tr>
            <td><input type="checkbox" ng-model="chkselect.sub5">EH&F</td>
        </tr>

    </table>
</td>
</tr>
<tr>
    <td colspan="2">
        <span style="color:red;" ng-show="validationmsg">Please select at least one
        Checkbox</span><br>
        <input type="submit" value="Submit" ng-click="checkvalidation();" onclick=""
/>
    </td>
</tr>
<tr>
    <td>

    </td>
</tr>
</table>
<b>First Name:</b> {{fname}} <br />
<b>Last Name:</b> {{lname}} <br />
<b>Roll No:</b> {{emailID}} <br />
<b>Date of Birth:</b> {{dob}} <br />
<b>Gender:</b> {{gender}} <br />
</form>
</div>

<script>
var app = angular.module('checkboxApp', []);
app.controller('checkboxCtrl', function ($scope) {
    $scope.validationmsg = false;
    $scope.checkvalidation = function () {
        var chkselect = $scope.chkselect;
        if (chkselect == false || chkselect == undefined)
            $scope.validationmsg = true;


        else
            {$scope.validationmsg = false;

```

```
        alert('Form successfully submitted!');}
    }
});
</script>
</body>

</html>
```

Student Details

First Name:	<input type="text"/>	First name is required.
Last Name:	<input type="text"/>	Minimum 3 characters required.
Email:	<input type="text" value="a@.co"/>	Enter valid email.
Date of Birth:	<input type="text" value="dd-mm-yyyy"/> 	
Gender:	<input type="text" value="v"/>	Select your gender.
Training Type:	<input type="radio"/> Online <input type="radio"/> Offline <input type="checkbox"/> AI&DS-1 <input type="checkbox"/> Web X.0	
Subject:	<input type="checkbox"/> DMBI <input type="checkbox"/> WT <input type="checkbox"/> EH&F	

Please select at least one Checkbox

First Name:

Last Name:

Roll No:

Date of Birth:

Gender:

127.0.0.1:5500/test37.html


127.0.0.1:5500 says
Form successfully submitted!
OK

Student Details

First Name:

Last Name:

Email:

Date of Birth: 

Gender:

Training Type: ☒ Online
☐ Offline

☒ AI&DS-1
☒ Web X.0

Subject: ☒ DMBI
☒ WT
☒ EH&F

First Name: Mikil
Last Name: Lalwani
Roll No: mikil.lalwani03@gmail.com
Date of Birth: "2002-08-29T18:30:00.000Z"
Gender: Male

Conclusion-

We successfully used AngularJs to create a form and validated it using directives and controllers in AngularJs.