

EXPERIMENT 6

Aim: Create a simple HTML Project using AngularJS Framework and apply ng-controller, ng-model and expressions.

Theory:

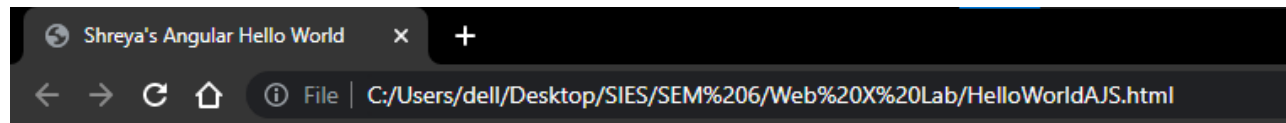
- Angular JS is an open-source JavaScript framework by Google to build web applications. It can be freely used, changed, and shared by anyone.
- AngularJS is distributed as a JavaScript file, and can be added to a web page with a script tag:
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></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
- The ng-bind directive binds the content of the <p> element to the application variable name.
- AngularJS applications are controlled by controllers.
- The ng-controller directive defines the application controller.
- A controller is a JavaScript Object, created by a standard JavaScript object constructor.
- In AngularJS, expressions are used to bind application data to HTML. AngularJS resolves the expression, and return the result exactly where the expression is written.
- Expressions are written inside double braces {{expression}}. They can also be written inside a Directive

Output:

AngularJS HelloWorld



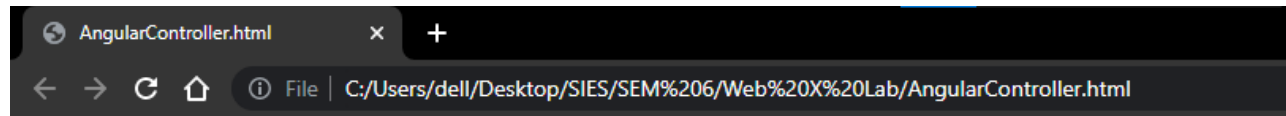
```
1 <html>
2   <head>
3     <title>Shreya's Angular Hello World</title>
4     <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
5     </script>
6   </head>
7
8   <body ng-app="myapp">
9     <div ng-controller="HelloController">
10      <h2>Hello {{helloTo.title}}!</h2>
11    </div>
12    <script>
13      angular.module("myapp", [])
14        .controller("HelloController", function ($scope) {
15        $scope.helloTo = {};
16        $scope.helloTo.title = "World, AngularJS from Shreya";
17      });
18    </script>
19  </body>
20 </html>
```



Hello World, AngularJS from Shreya!

Angular controller and function

```
AngularController.html X
AngularController.html > ...
1  <html>
2    <head>
3      <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js">
4      </script>
5    </head>
6
7    <body>
8      <h2>AngularJS Sample Application</h2>
9      <div ng-app="mainApp" ng-controller="studentController">
10        Enter first name: <input type="text" ng-model="student.firstName"><br>
11        <br>
12        Enter last name: <input type="text" ng-model="student.lastName"><br>
13        <br>
14        You are entering: {{student.fullName()}}
15      </div>
16      <script>
17        var mainApp = angular.module("mainApp", []);
18        mainApp.controller('studentController', function ($scope) {
19          $scope.student = {
20            firstName: "Shreya",
21            lastName: "Idate",
22
23            fullName: function () {
24              var studentObj;
25              studentObj = $scope.student;
26              return studentObj.firstName + " " + studentObj.lastName;
27            }
28          };
29        });
30      </script>
31    </body>
32  </html>
```



AngularJS Sample Application

Enter first name:

Enter last name:

You are entering: Shreya Idate

Conclusion:

Simple Angular JS “Hello World” Project by applying directives ng-controller, ng-model and expressions is designed successfully.

