St. Francis Institute of Technology Borivli (West), Mumbai-400103

(Autonomous Institute) Department of Information Technology

Academic Year: 2024-25

Class: TE-ITA/B Semester: VI

Subject: Web Lab

Experiment – 5: To understand Events and Validations in AngularJS. (Create functions and add events, add HTML validators etc.)

- 1. Aim: To study AngularJS functions and add events, add HTML validators
- 2. Objectives: Aim of this experiment is that, the students will be able
 - To install AngularJS
 - Read and understand commonly-used AngularJS syntax
 - Environment setup
- 3. Outcomes: After study of this experiment, the students will be able
 - To write code using AngularJS.
 - to handle coding and syntax error
- **4. Prerequisite:** Knowledge of HTML, CSS, JAVASCRIPT and any text editor.
- **5. Requirements:** Personal Computer, Windows operating system, VSCode, Angular CLI, Node, browser, Internet Connection, google doc.
- 6. Pre-Experiment Exercise:

Brief Theory: Refer shared material

- 7. Laboratory Exercise
 - A. Procedure:
 - a. Answer the following:
 - Explain \$scope object in AngularJS
 - Write about angular filters
 - b. Attach screenshots:
 - AngularJS code and Output with your own comments and indentation.
- 8. Post-Experiments Exercise
 - A. Extended Theory:

Nil

- **B.** Questions:
- What is the Angular Template variable, explain it with syntax and example?
- explain AngularJS "required" and "email" client-side form validation.
- Two-Way Binding?
 - C. Conclusion:
 - Write what was performed in the experiment.
 - Write the significance of the topic studied in the experiment.
 - D. References:

- https://riptutorial.com/ebook/angularjs
 Practical AngularJS by DinisCruz

Name: Vishal Rajesh Mahajan Web Lab EXP 05

Class: TE IT A Roll No: 56

File Name: Index.html

```
<!DOCTYPE html>
<a href="https://www.app">html lang="en" ng-app="myApp">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>AngularJS Events & Validations</title>
  <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"×/script>
  <script src="app.js"></script>
  k rel="stylesheet" href="styles.css"> <!-- External CSS File -->
</head>
<body ng-controller="MyController">
  <h2>AngularJS Events & Validations</h2>
  <div class="form-container">
     <form name="userForm" ng-submit="submitForm(userForm.$valid)" novalidate>
       <!-- Name Field -->
       <label>Enter Name:</label>
       <input type="text" name="username" ng-model="user.name"</pre>
            ng-change="nameChanged()" required minlength="5">
       <span class="error" ng-show="userForm.username.$dirty &&</pre>
userForm.username.$error.required">
          Name is required.
       </span>
       <span class="error" ng-show="userForm.username.$dirty &&</pre>
userForm.username.$error.minlength">
          Name must be at least 5 characters.
       </span>
       <!-- Email Field -->
       <label>Enter Email:</label>
       <input type="email" name="email" ng-model="user.email" required>
       <span class="error" ng-show="userForm.email.$dirty &&</pre>
userForm.email.$error.required">
          Email is required.
       </span>
       <span class="error" ng-show="userForm.email.$dirty &&</pre>
userForm.email.$error.email">
          Invalid email format.
       </span>
```

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```
<!-- Password Field -->
       <label>Enter Password:</label>
       <input type="password" name="password" ng-model="user.password" required</pre>
minlength="6">
       <span class="error" ng-show="userForm.password.$dirty &&</pre>
userForm.password.$error.required">
          Password is required.
       </span>
       <span class="error" ng-show="userForm.password.$dirty &&</pre>
userForm.password.$error.minlength">
          Password must be at least 6 characters.
       </span>
       <button type="submit" ng-disabled="userForm.$invalid">Submit</button>
     </form>
  </div>
  <!-- Display submitted data -->
  <div class="submitted-data" ng-show="submitted">
     <h3>Submitted Data:</h3>
     <strong>Name:</strong> {{ user.name }}
     <strong>Email:</strong> {{ user.email }}
     <strong>Password:</strong> (Hidden for security)
  </div>
</body>
</html>
```

File name: App.js

```
var app = angular.module('myApp', []);

app.controller('MyController', function($scope) {
    $scope.user = {}; // Object to store user data
    $scope.submitted = false; // Flag to track form submission

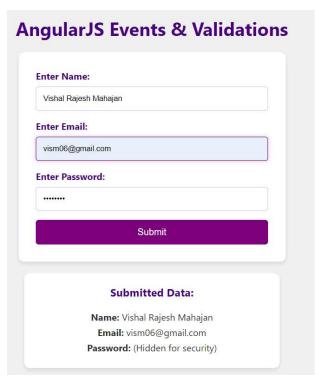
$scope.submitForm = function(isValid) {
    if (isValid) {
        $scope.submitted = true; // Show submitted data section
        console.log("Form submitted successfully!", $scope.user);
    }
};
```

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```
$scope.nameChanged = function() {
    $scope.submitted = false; // Reset submission when user changes name
};
});
```

Output:



Enter Nam	e:	
vis		
Enter Emai	Name must be at least 5 characters.	
vism06		
Enter Pass	Invalid email format.	