

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:**

1. <https://riptutorial.com/ebook/angularjs>
2. Practical AngularJS by DinisCruz

File Name: Index.html

```
<!DOCTYPE html>
<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>
  <link 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"
        ng-change="nameChanged()" required minlength="5">
      <span class="error" ng-show="userForm.username.$dirty &&
userForm.username.$error.required">
        Name is required.
      </span>
      <span class="error" ng-show="userForm.username.$dirty &&
userForm.username.$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.$dirty &&
userForm.email.$error.required">
        Email is required.
      </span>
      <span class="error" ng-show="userForm.email.$dirty &&
userForm.email.$error.email">
        Invalid email format.
      </span>
    </form>
  </div>
</body>
</html>
```

```
<!-- Password Field -->
<label>Enter Password:</label>
<input type="password" name="password" ng-model="user.password" required
minlength="6">
  <span class="error" ng-show="userForm.password.$dirty &&
userForm.password.$error.required">
    Password is required.
  </span>
  <span class="error" ng-show="userForm.password.$dirty &&
userForm.password.$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>
  <p><strong>Name:</strong> {{ user.name }}</p>
  <p><strong>Email:</strong> {{ user.email }}</p>
  <p><strong>Password:</strong> (Hidden for security)</p>
</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);
    }
  };
});
```

Name: Vishal Rajesh Mahajan

Web Lab EXP 05

Class: TE IT A

Roll No: 56

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

Output:

AngularJS Events & Validations

Enter Name:

Enter Email:

Enter Password:

Submit

Submitted Data:

Name: Vishal Rajesh Mahajan
Email: vism06@gmail.com
Password: (Hidden for security)

AngularJS Events & Validations

Enter Name:

Name must be at least 5 characters.

Enter Email:

Invalid email format.

Enter Password:

Password must be at least 6 characters.

Submit