**Aim**: Demonstrate Events and Validations in AngularJS. (Create functions and add events, adding HTML validators using $valid property of Angular, etc).

**Program:** Top of Form

Bottom of Form

<!DOCTYPE html>

<html lang="en" ng-app="validationApp">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>AngularJS Events and Validations</title>

  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>

  <style>

    .error {

      color: red;

      font-size: 0.9em;

    }

    .success {

      color: green;

    }

  </style>

</head>

<body ng-controller="FormController">

  <div>

    <h1>AngularJS Events and Validations</h1>

    <form name="userForm" ng-submit="submitForm(userForm)" novalidate>

      <label for="name">Name:</label>

      <input

        type="text"

        id="name"

        name="name"

        ng-model="user.name"

        ng-required="true"

        ng-minlength="3"

        ng-maxlength="20"

      />

      <div class="error" ng-show="userForm.name.$touched && userForm.name.$invalid">

        <small ng-show="userForm.name.$error.required">Name is required.</small>

        <small ng-show="userForm.name.$error.minlength">Name must be at least 3 characters long.</small>

        <small ng-show="userForm.name.$error.maxlength">Name must not exceed 20 characters.</small>

      </div>

      <label for="email">Email:</label>

      <input

        type="email"

        id="email"

        name="email"

        ng-model="user.email"

        ng-required="true"

      />

      <div class="error" ng-show="userForm.email.$touched && userForm.email.$invalid">

        <small ng-show="userForm.email.$error.required">Email is required.</small>

        <small ng-show="userForm.email.$error.email">Enter a valid email.</small>

      </div>

      <label for="age">Age:</label>

      <input

        type="number"

        id="age"

        name="age"

        ng-model="user.age"

        ng-required="true"

        ng-min="18"

        ng-max="65"

      />

      <div class="error" ng-show="userForm.age.$touched && userForm.age.$invalid">

        <small ng-show="userForm.age.$error.required">Age is required.</small>

        <small ng-show="userForm.age.$error.min">Age must be at least 18.</small>

        <small ng-show="userForm.age.$error.max">Age must not exceed 65.</small>

      </div>

      <button type="submit" ng-disabled="userForm.$invalid">Submit</button>

    </form>

    <div ng-if="formSubmitted" class="success">

      <h3>Form Submitted Successfully!</h3>

      <p><strong>Name:</strong> {{ user.name }}</p>

      <p><strong>Email:</strong> {{ user.email }}</p>

      <p><strong>Age:</strong> {{ user.age }}</p>

    </div>

  </div>

  <script src="script.js"></script>

</body>

</html>

**Node.js**

var app = angular.module("validationApp", []);

app.controller("FormController", function ($scope) {

  $scope.user = {};

  $scope.formSubmitted = false;

  $scope.submitForm = function (form) {

    if (form.$valid) {

      $scope.formSubmitted = true;

      console.log("Form Submitted Successfully:", $scope.user);

    } else {

      alert("Please fix the validation errors before submitting.");

    }

  };

});

**Output:**

