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1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>IS 542 - Homework 4</title>
7 </head>
8
9 <body>
10 <label for="yourName">What is your name?</label><br>
11 <input type="text" id="yourName"><br>
12 <br>
13 <label for="yourEmail">What is your Email?</label><br>
14 <input type="text" id="yourEmail"><br>
15 <br>
16 <label for="yourRating">On a scale of 1-10, with 10 being most difficult, how
    difficult is it to learn JavaScript?</label><br>
17 <input type="text" id="yourRating"><br>
18 <br>
19 <label for="yourDate">When is your graduation date? (Use MM/DD/YYYY format)</label>
    <br>
20 <input type="text" id="yourDate"><br>
21 <br>
22 <br>
23 <button type="button" onclick="validateForm()">SUBMIT</button>
24
25 <div id="formValid"></div>
26
27 </body>
28
29 <script>
30     const validator = (function() {
31         let isValid = true;
32         let validErrors = [];
33         const errorDiv = document.getElementById("formValid");
34         regexEmailValid = /^(^<>()\[\]\.\.,;:\s@""]+\.([^<>()\[\]\.\.,;:\s@""]+)*|
    (".+")@((\[[0-9]{1,3}\. [0-9]{1,3}\. [0-9]{1,3}\. [0-9]{1,3}\)|((\a-zA-Z\-[0-9]+\.)+[\a-
    zA-Z]{2,})))$/;
35
36         return {
37             isNumeric: function(text) {
38                 isValid = !isNaN(text);
39             },
40             isInteger: function(text) {
41                 isValid = Number.isInteger(text);
42             },
43             isPositiveInteger: function(text) {
44                 isValid = Number.isInteger(text) && text > 0;
45             },
46             isNegativeInteger: function(text) {
47                 isValid = Number.isInteger(text) && text < 0;
48             },
49             isNonNegativeInteger: function(text) {
50                 isValid = Number.isInteger(text) && text >= 0;
51             },
52             isInRange: function(text, m, n) {
53                 if (isNaN(text) || text == "") {
54                     isValid = false;
55                     validErrors.push("Please input a number between 1 and 10");
56                 } else if (!isNaN(text) && ((text < m) || (text > n))) {

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57         isValid = false;
58         validErrors.push("Please input a number 1 between and 10")
59     }
60 },
61 isValidEmail: function(text) {
62     if (!regexEmailValid.test(text)) {
63         isValid = false;
64         validErrors.push("Please enter a valid email");
65     }
66 },
67 isEmpty: function(text) {
68     if (typeof text !== "string" || text == "") {
69         isValid = false;
70         validErrors.push("Please enter your name");
71     }
72 },
73 lengthInRange: function(text, m, n) {
74     if (typeof text === "string") {
75         if (m === undefined) {
76             isValid = text.length <= n;
77         } else if (n === undefined) {
78             isValid = text.length >= m;
79         } else {
80             isValid = text.length <= n && text.length >= m;
81         }
82     } else {
83         isValid = false;
84     }
85 },
86 matchesRegex: function(text, regex) {
87     if (!regex.test(text)) {
88         isValid = false;
89         validErrors.push("Please enter a valid date in the specified
90 format");
91     }
92 },
93 isValid: function() {
94     if (!isValid) {
95         validErrors.forEach(element => errorDiv.innerHTML += `
```

