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

(Autonomous Institute)

Department of Information Technology

Sub: Internet Programming

Experiment – 3: JavaScript Control Structures and DOM methods

- **1. Aim:** To design a registration form using HTML and CSS. Use JavaScript to validate the user input and handle form submission using control structures.
- **2. Objective:** To understandand the basic concepts of Document Object Model and JavaScript including use of Variables, Operators, Conditions and Loops
- **3. Lab objective mapped:** Students will be able to **implement** JavaScript to **develop** interactive web pages (PO3, PO5, PSO3, PSO4)
- 4. Prerequisite: JavaScript
- **5. Requirements:** The following are the requirements
 - PC/Laptop, Visual Studio Code, Browser

6. Pre-Experiment Theory:

JavaScript is the programming language of the Web. JavaScript tis used o program the behaviour of web pages.

- JavaScript can change HTML content. One of many JavaScript HTML methods is getElementById()
- JavaScript can change HTML Attribute Values
- JavaScript can change HTML Styles

A JavaScript function is a block of JavaScript code, that can be executed when "called" for. Scripts can also be placed in external files

JavaScript can "display" data in different ways:

- Writing into an HTML element, using innerHTML.
- Writing into the HTML output using document.write().
- Writing into an alert box, using window.alert().
- Writing into the browser console, using console.log().

There are 3 ways to declare a JavaScript variable:

• Using var, Using let and Using const

JavaScript Operators

- Arithmetic Operators
- Assignment Operators
- String Operators
- Comparison Operators
- Logical Operators
- Type Operators
- Bitwise Operators

In JavaScript we have the following conditional statements:

- Use if to specify a block of code to be executed, if a specified condition is true
- Use else to specify a block of code to be executed, if the same condition is false
- Use else if to specify a new condition to test, if the first condition is false
- Use switch to specify many alternative blocks of code to be executed

JavaScript supports different kinds of loops:

- for loops through a block of code a number of times
- for/in loops through the properties of an object
- for/of loops through the values of an iterable object
- while loops through a block of code while a specified condition is true
- do/while also loops through a block of code while a specified condition is true

7. Laboratory Exercise:

A. Procedure

Follow the procedure given below to design a registration form and validate fields:

- 1. Open visual studio code.
- 2. Open a new file and write HTML code using its elements to design a registration form.
- 3. Use script tag to write the code to validate fields.
- 4. Save file as .html
- 5. Style the form using CSS markup language.
- 6. To view the output, right click the file and select open with option.
- 7. Check the output

B. Program Code

Design a registration form using HTML and CSS. Validate the mandatory fields e.g. firstname, lastname and format of password on form submission using control structures and DOM methods.

8. Post Experimental Exercise-

- 1. Write JavaScript program to find factorial of a number.
- 2. Write JavaScript program to print Fibonacci series up to 10 numbers.

9. Results/Observations/Program output:

Present the program code and output

10. Conclusion:

Write what was performed in the experiment

Write which all features of JavaScript you used to perform the experiment

11. References:

- HTML 5 Black Book (Covers CSS3, JavaScript, XML, XHTML, AJAX, PHP, jQuery) 2Ed., DT Editorial Services
- https://www.w3schools.com/js/default.asp
- https://www.tutorialspoint.com/javascript/index.htm
- https://www.youtube.com/watch?v=W6NZfCO5SIk
- https://www.youtube.com/watch?v=PkZNo7MFNFg

Name: Vishal Rajesh Mahajan

Name. Vishai Najesh Manajan Class: TE IT A

IP EXP03 Roll No: 62

7. Laboratory Exercise:

B. Program Code
Design a registration form using HTML and CSS. Validate the mandatory
fields e.g. firstname,
lastname and format of password on form submission using control
structures and DOM methods.

Code:

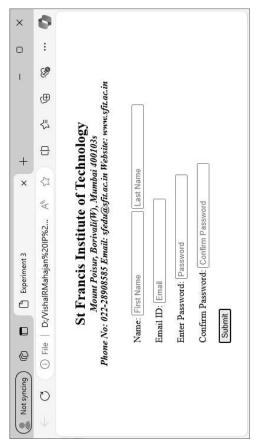
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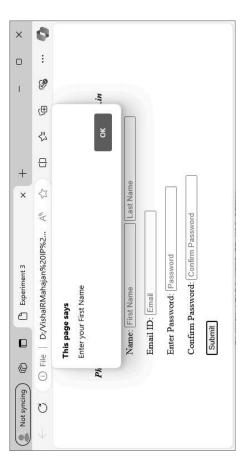
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<input type="text" id="fname" name="fname" placeholder="First</pre>
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Output:

Form ScreenShot:



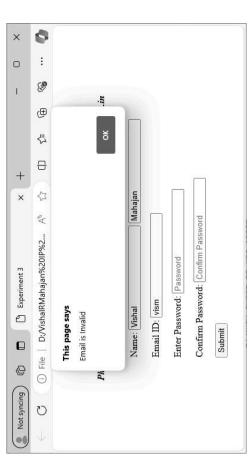
1. When First name is Blank



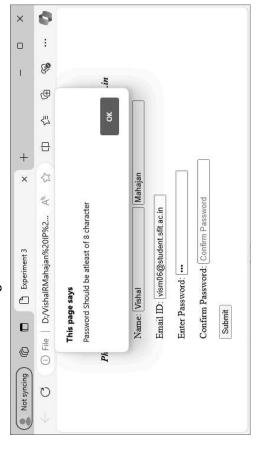
2. When Last Name is Blank

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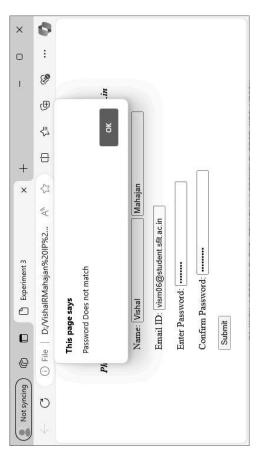
3. When Email is not Valid



4. When Password Length is less than 8



5. When Password and Confirm Password Does not Match



Validation of Form Created in EXP2

<meta name="viewport" content="width=device-width, initial-scale=1.0" /> $/ ^{[a-zA-Z0-9.] \# \% \& ^* +/ =?^{^{-}} \{ []^{\sim -}] + ([a-zA-Z0-9-] + (?: \setminus . [a-zA-Z0-9-] +) * \$/; }$ let middle = document.forms["myform"]["mname"].value; let first = document.forms["myform"]["fname"].value; let last = document.forms["myform"]["lname"].value; let mail = document.forms["myform"]["email"].value if (first == "" || middle == "" || last == "") { alert("Enter your Middle Name"); alert("Enter your First Name"); alert("Enter your Last Name"); <link rel="stylesheet" href="EXP2.css"> if (!validRegex.test(mail)) { alert("Email is Invalid") if (middle == "") { if (first == "") { if (last == "") { return false; function validateForm() { return false; return false; <title>Experiment 2</title> var validRegex = <meta charset="UTF-8" /> <html lang="en"> <!DOCTYPE html> <head> Code:

return false;

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Phone No: 022-28908585 Email: sfedu@sfit.ac.in Website:
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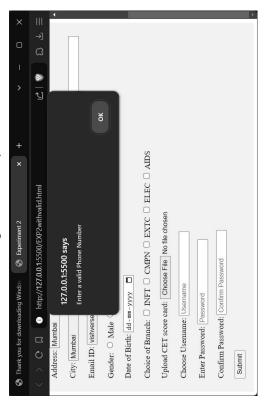
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <input type="radio" name="Other" /> Other
                                                                  <option value="RJ">Rajasthan
                                                                                                                                                                              <option value="TG">Telangana
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <input type="radio" name="Male" /> Male
                                                                                                                                                                                                               <option value="TR">Tripura
                                 <option value="PB">Punjab</pption>
                                                                                                         <option value="SK">Sikkim</ption>
<option value="OR">Odisha</option>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <option value="DL">Delhi</option>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       name="phone" placeholder="Mobile Number"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           maxlength="10">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Choice of Branch:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     placeholder="Pincode" maxlength="6">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Date of Birth:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       </select>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gender:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       placeholder="Email">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ŝ
                                                                                                                                                                                                                                                                                                                                                                                                   Islands</option>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Birth">
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<input type="text" id="username" name="username"</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <input type="password" id="cpass" name="cpass"</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <input type="password" id="pass" name="pass"</pre>
                            <input type="checkbox" name="INFT" /> EXTC
                                                        <input type="checkbox" name="INFT" /> ELEC
                                                                                     <input type="checkbox" name="INFT" /> AIDS
<input type="checkbox" name="INFT" /> CMPN
                                                                                                                                                                                                                <input type="file" name="scorecard" />
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <input type="submit" value="Submit">
                                                                                                                                                                                   Upload CET score card:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Confirm Password:
                                                                                                                                                                                                                                                                                                            Choose Username:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Enter Password:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               placeholder="Confirm Password" />
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          placeholder="Password" />
                                                                                                                                                                                                                                                                                                                                                                     placeholder="Username" />
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <d/>>
                                                                                                                                                                                                                                                   <d/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   </form>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 </section>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        </html>
```

Validation of Name , email ,password is same as earlier. New validation is :

1. When Phone Number length is not equal to 10



2. When Cet score card is not uploaded

☼ Thank you for downloading Windo: ☼ Experiment 2 × + × -		0	×
$\langle \ \ angle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	8	→] (2)	
Address: Mumbai 127.0.0.1;5500 savs			1
City: Mumbai Upload your CET Score Card			
Email ID: vishverse			
Gender: Male			
Date of Birth: 01-08-2024 📋			
Choice of Branch: ☑ INFT □ CMPN □ EXTC □ ELEC □ AIDS			
Upload CET score card: Choose File No file chosen			
Choose Username: Username			
Enter Password: Password			
Confirm Password: Confirm Password			
Submit			