Regd. No: 198W1A05I0 17CS3451- WT LAB Academic Year: 2020-21

Lab Session 05 (a): Client-side Validation using JavaScript

Date of the Session: 16/06/2021 Time of the Session: 11:40 AM to 01:00 PM

Title of the Program: Registration Form Validation using JavaScript

Pre-Lab Task: Answer the following before entering into lab

- 1) What are the various ways in which JavaScript can display the data?
- A) JavaScript can display data in many ways:
 - Writing into an alert box, using window.alert().
 - Writing into the HTML output using **document.write()**.
 - Writing into an HTML element, using **innerHTML**.
 - Writing into the browser console, using **console.log()**.
- 2) What is the keyword used to declare variables in JavaScript? Give an example.
- A) **var** keyword is used to declare variables in JavaScript. var x = 5;
- 3) Write the syntax for JavaScript functions.
- A) A JavaScript function is defined with the function keyword, followed by a name, followed by parentheses ().

```
function name(parameter1, parameter2, parameter3) {
     // code to be executed
}
```

- 4) Give an example of JavaScript Objects.
- A) In JavaScript, almost everything is an object.
 var person = {firstName:"John", lastName:"Doe", age:50, eyeColor:"blue"};
 var car = {type:"Fiat", model:"500", color:"white"};
- 5) What is the use of caret^ and dollar\$ in JavaScript?
- A) They represent the start and end. They match the start of the string (^) and end of the string (\$).
- 6) What will happen if caret^ is used immediately following the square bracket? For example: [^a-zA-Z].
- A) It checks whether the given string starts with any alphabet or not.
- 7) What is the use of exec()?
- A) The exec() method executes a search for a match in a specified string. Returns a result array, or null.
- 8) What is the use of match()?
- A) The match() method searches a string for a match against a regular expression, and returns the matches, as an Array object.

In-Lab Task

Design Registration Page and validate the fields with the given constraints
 Name (Name should contain alphabets and length should not be less than 6 characters).
 E-mail id (should not be invalid and must follow the standard pattern name@domain.com)
 Password (Password should not be less than 6 characters length).

 Phone number (Phone number should contain 10 digits only).

Registration Form		
Name		
E-Mail ID		
Password		
Phone Number		
Gender	○ Male ○ Female	
Date of Birth	dd-mm-yyyy	
Languages Know	n 🗆 English 🗆 Telugu 🗀 Hindi 🗀 Tamil	
Address		
District	Anantapur ▼	
State	Andhra Pradesh ▼	
Pin Code		
	Submit Reset	

Writing Space for In-Lab Task: (For Students use only)

Code:

```
<!DOCTYPE html>
<html>
<head>
    <title>Registration Form</title>
    <script type="text/javascript">
        function validateform() {
        var name = regform.uname.value;
        var password = regform.upassword.value;
        var email = regform.uemail.value;
        var phnumber = regform.uphnumber.value;
        const nameregex = /^[A-Za-z ]+$/;
        var namevalid = nameregex.test(name);
```

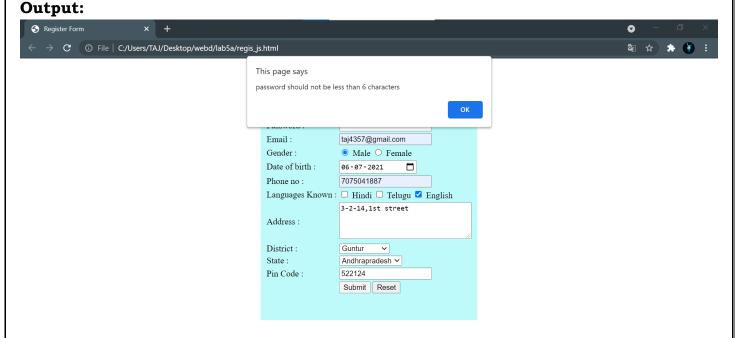
```
var passwordvalid = password.length >= 6;
      const emailregex = /^(([^<>()[\]\],.;:\s@"]+(\.[^<>()[\]\],.;:\s@"]+)*)|(".+"))@((\[0-])
9[\{1,3\}\setminus.[0-9]\{1,3\}\setminus.[0-9]\{1,3\}\setminus]) | (([a-zA-Z\setminus-0-9]+\setminus.)+[a-zA-Z]\{2,\}))$/;
      var emailvalid = emailregex.test(email);
      var phnumbervalid = phnumber.length == 10;
      if((name == null | | name == "") && (password == null | | password == "") &&
(email == null | | email == "") && (phnumber == null | | phnumber == "")) {
             alert("No data entered");
             return false;
      if(name == null | | name == "") {
             alert("Name not filled");
             regform.uname.focus();
             return false;
      else if(namevalid == false) {
             alert("Name should only contain alphabets");
             regform.uname.focus();
             return false:
      else if(name.length < 6) {
             alert("Name shoud have atleast 6 characters");
             regform.uname.focus();
             return false;
      }
      if(passwordvalid == false) {
             alert("Password should be atleast 6 characters");
             regform.upassword.focus();
             return false:
      if(emailvalid == false) {
             alert("Enter valid email");
             regform.uemail.focus();
             return false;
      if(phnumbervalid == false) {
             alert("Phone number should be 10 digits");
             regform.uphnumber.focus();
             return false;
      else {
             prompt("Thank you");
```

```
</script>
 <style type="text/css">
    .ske{
    width: 40%;
    border: 2px solid black;
 </style>
</head>
<body>
 <center>
 <div class="ske">
 <form name="regform" onsubmit="return validateform()">
    <h1 style="color: darkblue; font-size: 2em;"><b>Registration Form</b></h1>
    <hr style="color:#999;">
 <input type="text" name="uname">
    <b>Password : </b>
    <input type="password" name="upassword" min="5">
    <input type="email" name="uemail">
    <b>Phone Number : </b>
    <input type="text" name="uphnumber">
    <input type="radio" name="gender"
value="male"><label><b>Male</b></label><input type="radio" name="gender"
value="female"><label><b>Female</b></label>
    <b>Date of Birth : </b>
    <input type="date" name="dob">
    <input type="checkbox" name="lang"><label><b>English</b></label>
        <input type="checkbox" name="lang"><label><b>Telugu</b></label>
```

```
<input type="checkbox" name="lang"><label><b>Hindi</b></label>
        <input type="checkbox" name="lang"><label><b>Tamil</b></label>
    <textarea id = "address"></textarea>
    <select name = "district">
             <option vlaue = "krishna">Krishna
             <option vlaue = "guntur">Guntur
             <option vlaue = "wgodavari">West Godavari
             <option vlaue = "egodavari">East Godavari
             <option vlaue = "ananthpur">Ananthpur
             <option vlaue = "viskhapatnam">Vishakhapatnam
        </select>
    <select name = "district">
             <option vlaue = "ap">Andhra Pradesh
             <option vlaue = "ts">Telangana
             <option vlaue = "ka">Karnataka/option>
             <option vlaue = "tn">Tamil Nadu</option>
             <option vlaue = "kl">Kerala</option>
        </select>
    <b>Pin Code : </b>
    <input type="text" name="name">
    <input type="submit" name="submit" style="margin-right: 5px;"><input
type="reset" name="submit">
    </form>
</div>
</center>
</body>
</html>
```

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Post-Lab Task:

1. Design Customer Information page and validate the fields with the given constraints.

Customer_ID (Maximum Length of the ID should be only 3)

Name (Should be between 6 and 15 Character)

Account Number (Should be 6 Digits)

Amount to Deposit (Should be between 500 to 5,00,000)

Email (Should not be invalid and must follow the standard pattern name@domain.com)

Rate of interest (Should be in number)

Maturity Amount (Should be in number)

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CUSTOMER INFORMATION					
CUSTOMER_ID					
NAME					
ACCOUNT NUMBER					
DEPOSIT TYPE	• FIXED DEPOSIT	RECURRING DEPOSIT			
AMOUNT TO DEPOSIT					
NO.OF YEARS	• ONE	○ TWO	O THREE		
EMAIL					
RATE OF INTEREST					
MATURITY AMOUNT					
	Submit	Reset			

Writing Space for Post-Lab Task: (For Students use only)

Code:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>Customer Information</title>
  <style type="text/css">
      .skel{
            width: 50%;
            border: 1px solid black;
  </style>
  <script type="text/javascript">
     function validateform() {
           var cust_id = custform.userid.value;
            var myname = custform.name.value;
           var acnum = custform.acccnum.value;
            var money = parseInt(custform.amount.value);
            var mail = custform.email.value;
            var r = custform.rate.value;
```

<form name="custform" onsubmit="return validateform()">

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```
<strong>CUSTOMER_ID</strong>
            <input type="text" name="userid">
        <strong>NAME</strong>
            <input type="text" name="name">
        <strong>ACCOUNT NUMBER</strong>
            <input type="text" name="acccnum">
        <strong>DEPOSIT TYPE</strong>
            <input type="radio" name="d" value="fd">FIXED DEPOSIT
            <input type="radio" name="d" value="rd">RECURRING
DEPOSIT
        <strong>AMOUNT TO DEPOSIT</strong>
            <input type="text" name="amount">
        <strong>NO.OF YEARS</strong>
            <input type="radio" name="y" value="one">ONE
            <input type="radio" name="y" value="two">TWO
            <input type="radio" name="y" value="three">THREE
        <strong>EMAIL</strong>
            <input type="email" name="email">
        <strong>RATE OF INTEREST</strong>
            <input type="text" name="rate">
        <strong>MATURITY AMOUNT</strong>
            <input type="text" name="Mamount">
        <input type="submit" name="submit">
            <input type="reset" name="reset">
        </form>
 </div>
</center>
</body>
```

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:/html>					
Output:					
$oldsymbol{3}$ Customer Information $oldsymbol{ imes}$ $oldsymbol{+}$ $oldsymbol{+}$ $oldsymbol{+}$ $oldsymbol{O}$ File $oldsymbol{ }$ C/Users/TAJ/Desk	ttop/webd/lab5a/customer_info.htr	ml			• − □
	<u>CUS'</u>	TOMER INF	<i>ORMATION</i>	,	
	CUSTOMER_ID				
	NAME				
	ACCOUNT NUMBER				
	DEPOSIT TYPE	O FIXED DEPOSIT	O RECURRING		
	AMOUNT TO		DEPOSIT		
	DEPOSIT				
	NO.OF YEARS	OONE	○TWO	O THREE	
	EMAIL				
	RATE OF INTEREST				
	MATURITY AMOUNT				
		Submit	Reset		
				Student	's Signature
Comment of the	<i>(For</i> Evaluator (if A		's use only) ator's Obse	rvation	
	•		s Secured: _		•

Comment of the Evaluator (if Any)	Evaluator's Observation Marks Secured: out of
	Full Name of the Evaluator:
	Signature of the Evaluator:
	Date of Evaluation: