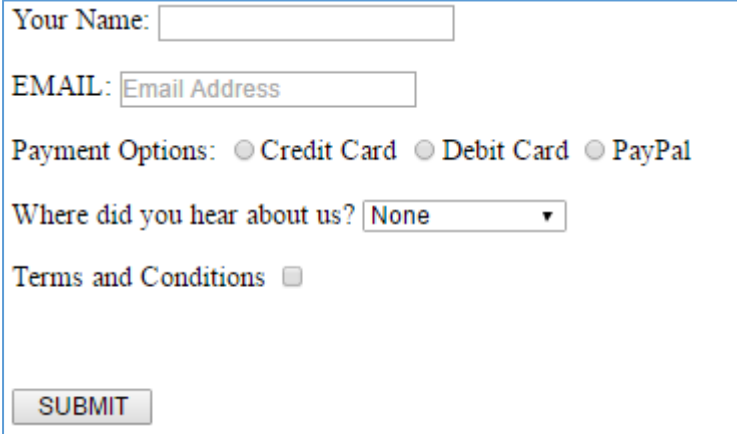# Practical – Javascript Validation

Objectives:

- Use Javascript to validate Form input before submission

A copy of the form can be found in blackboard FormValidation.txt.

Change the txt extension to .html or use appropriate online HTML editors.

Your Name: [   ]

EMAIL: [Email Address   ]

Payment Options: ○ Credit Card ○ Debit Card ○ PayPal

Where did you hear about us? [None   ▾]

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[SUBMIT]

A. Validate the Input Textbox "Your Name". If it is left empty, change the background color of the texbox to red.
   i. Add the javascript codes shown below into your form. Test run your html file.
   ii. If the textbox is left empty, the texbox color should change to red color.

Your Name: [████████████]

```
<SCRIPT LANGUAGE = "Javascript">

        function validate (){

            if ( document.getElementById("tbName").value=='' ) {

                document.getElementById("tbName").style.backgroundColor='red';

            }

        }

</SCRIPT>
```

B. Add the rest of the validation function as shown. Implement the checkEmail, checkRadio, checkDropdown, checkCheckbox function.

```
<SCRIPT LANGUAGE = "Javascript">

        function validate (){

          if ( document.getElementById("tbName").value=="" ) {

            document.getElementById("tbName").style.backgroundColor='red';

          }

          var emailError = checkEmail();

          var radioError = checkRadio();

          var dropdownError = checkDropdown();

          var checkboxError = checkCheckbox();

        }

        function checkEmail(){

        }

        function checkRadio(){

        }

        function checkDropdown(){

        }

        function checkCheckbox(){

        }

</SCRIPT>
```

C. Implement the checkEmail
   i. Validate the email textbox is not empty.
   ii. If the email input box is left empty, an error message will be displayed on the section where id = "email_error"

EMAIL: [Email Address]   No Email Address

```javascript
function checkEmail(){


        var email = document.frmOne.email.value;

        if (email == ""){

          document.getElementById("email_error").innerHTML = "No Email Address";

          return false;

        }

        else {

          document.getElementById("email_error").innerHTML = "";

          return true;

        }

    }
```

D. Implement the checkRadio
    i. Validate that if any of the radio buttons are not selected, system should display error "No payment option selected

Payment Options: ○ Credit Card ○ Debit Card ○ PayPal No Payment option selected

```
function checkRadio(){

    var payment = "";

    var len = document.frmOne.payment.length;

    var i ;

    for (i = 0; i < len; i++) {

        if ( document.frmOne.payment[i].checked ) {

            payment = document.frmOne.payment[i].value;

            break;

        }

    }

        if (payment == ""){

            document.getElementById("radio_error").innerHTML = "No Payment option selected";

            return false;

        }

        else {

            document.getElementById("radio_error").innerHTML = "";

            return true;

        }

    }
```

E. Implement the checkDropwon
    i. Validate that one of the dropdown list item must be chosen.
    ii. If none of the items are chosen, system will display error message "No option chosen".

Where did you hear about us? None ▼ No Option chosen

```
function checkDropdown(){

        var chosen = "";

        var len = document.frmOne.hear.length;

        var i ;

        for (i = 0; i < len; i++) {

          if ( document.frmOne.hear[i].selected ) {

           chosen = document.frmOne.hear[i].value;

           break;

          }

        }

         if (chosen == "" || chosen == "none"){

            document.getElementById("dropdown_error").innerHTML = "No option chosen";

            return false;

          }

         else {

            document.getElementById("dropdown_error").innerHTML = "";

            return true;

         }

      }
```

F. Implement the checkCheckbox
    i. Validate that the checkbox is checked.
    ii. If the checkbox is not checked, system should display an error message "TAC no checked"

Terms and Conditions ☐ TAC not checked

```
function checkCheckbox(){

    if (document.frmOne.terms.checked){

        document.getElementById("checkbox_error").innerHTML = "";

        return true;

    }

    else {

        document.getElementById("checkbox_error").innerHTML = "TAC not checked";

        return false;

    }

}
```

G. Submit the form.
    i. If all fields are NOT left empty, system should submit the form to server for processing.

```
function validate (){

    if ( document.getElementById("tbName").value=="" ) {

        document.getElementById("tbName").style.backgroundColor='red';

    }

    var emailError = checkEmail();

    var radioError = checkRadio();

    var dropdownError = checkDropdown();

    var checkboxError = checkCheckbox();

    if (emailError && radioError && dropdownError && checkboxError){

        document.frmOne.submit();

    }

    else {

        return false;

    }

}
```

Your final screen should look similar to the one shown below

Your Name: ▮▮▮▮▮▮▮▮▮▮

EMAIL: [Email Address] No Email Address

Payment Options: ○ Credit Card ○ Debit Card ○ PayPal No Payment option selected

Where did you hear about us? [None ▾] No Option chosen

Terms and Conditions ☐ TAC not checked

[SUBMIT]