Competency 5 – PHP Programming Basics
Assignment 9

In this PHP Programming project, you will create a script that validates whether a credit card number contains only integers. The script will remove dashes and spaces from the string. After the dashes and spaces are removed, the script should reject the credit card number if it contains any other non-numeric characters.

1. Create a new document in your text editor name **ValidateCreditCard.php**.

2. Type the <!DOCTYPE> declaration, <html> element, document, head, and <body> element. Use the strict DTD and "Validate Credit Card" as the content of the <title> element.

    ```
    <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
    <html xmlns="http://www.w3.org/1999/xhtml">
    <head>
       <title>Validate Credit Card</title>
       <meta http-equiv="content-type" content="text/html;
           charset=iso-8859-1" />
    </head>
    ```

3. Add the following text and elements to the document body:

    ```
    <h1>Validate Credit Card</h1><hr/>
    ```

4. Add the following PHP script section to the document body:

    ```
    <?php
    ?>
    ```

5. Declare a $CreditCard array that contains three values: an empty string, a valid credit card number with numbers and dashes, and a credit card number with four initial uppercase letter O's.

    ```
    $CreditCard = array(
                       "",
                       "8910-1234-5678-6543",
                       "8914-7234-5978-O123",
                       "8914 7234 5978 9123",
                       "OOOO-9123-4567-0123");
    ```

6. Add the following statements to iterate through each of the elements in the $CreditCard array to determine if the element contains a value.

```
foreach ($CreditCard as $CardNumber)
{
   if (empty($CardNumber))
       echo "<p> This Credit Card Number is
              invalid because it contains an empty
              string.</p>";
```

7. Add the following *else* clause to validate the credit card number. The code uses `str_replace()` functions to remove any dashes and spaces in the number. Then, a nested `if..else` statement checks whether the new value is numeric. If the number is not numeric, a warning is displayed. If the number is numeric, the modified credit card number is displayed in the Web browser.

```
    else
    {
        $CreditCardNumber = $CardNumber;
        $CreditCardNumber = str_replace("-", "",
           $CreditCardNumber);
        $CreditCardNumber = str_replace(" ", "",
           $CreditCardNumber);
        if (!is_numeric($CreditCardNumber))
           echo "<p> Credit Card Number " .
           $CreditCardNumber . " is not a valid
           Credit Card number because it contains
           a non-numeric character.</p>";
        else
           echo "<p>Credit Card Number " .
           $CreditCardNumber . " is a valid
           Credit Card number.</p>";
    }
 }
```

8. Create a folder named **Assignment9** (case sensitive) and copy only the file **ValidateCreditCard.php** to the folder. Upload the **Assignment9** folder to the website in the "public_html" folder and test with it with the following link:.

   https://cs3.austincc.edu/~YourLinuxId/Assignment9/ValidateCreditCard.php

   Where **YourLinuxId** is the Linux Id assigned to you at the beginning of the semester

   Check to see if it displays a message for an empty string, strips dashes, and spaces from the credit card numbers, and identifies which credit card numbers are valid.

9. Zip the **Assignment9** folder and rename it to your **FullName_Assignment9** and upload it to Blackboard

You will not receive credit for the assignment if the above link does not work.