Fourth jQuery Exercise

As part of this exercise, you are required download a credit card validator. The validator is a jQuery plugin. The exercise is to implement this plugin.

There are numerous plugins available for implementing credit card validation. Two such examples are available at:
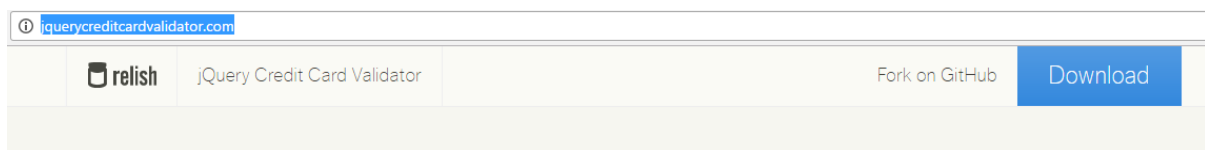
1. http://plugins.jquery.com/payment/
2. http://jquerycreditcardvalidator.com/

For this exercise, the second validator will be implemented. However, do have a look at the first one and check out the demo available.

Note: This validator can be reused for the Web Application Development project.

Exercise 1 – Implement a jQuery plugin.

1. Go to the web page http://jquerycreditcardvalidator.com/, and download the validator available by clicking on the download button:

2. Create a web page with an input field and a button:

Enter credit card number in field below to validate it

Confirm

3. The download includes a script: jquery.creditCardValidator.js. You need to include this script in a tag on your web page created in step 2.
4. Create a new javascript file and add jQuery to it to do the following:
   a. Select the credit card number field.
   b. Chains the validateCreditCard function to it. See the example included with the download.
   c. Create a global variable named $isValid.
   d. Implement an if statement in jQuery which checks the result.valid value for true. An if statement in jQuery is implemented like the following:

      (true) ? "Do something" : "Otherwise do something else";

// Note the similarity to an assert statement in java, for those of you familiar with java.

Note: From reading up on the jQuery validator details on the web site you should note that each time a digit is entered, the whole number is validated as effectively a keyup event is used. You could display the validity after each digit is entered, or this can just be stored in is $isValid variable, so that when the confirm button is clicked then the result from $isValid can be used to determine what action to perform on the button click.

e.   Add a click event to the confirm button which invokes an anonymous function which uses a jQuery conditional statement (if) to determine if the credit card number is valid or not. Basically check the value of $isValid.

f.   If the number is valid, then having clicked the confirm button bring the user to a new web page. The web page can just contain a sentence, specifying the credit card was valid.

g.   If the number is not valid then display an alert informing the user.

When all changes are made, save everything. Test your solution by entering any number to check for invalid credit card number.

Then check your solution using a valid credit card number. Many credit card numbers are available on the internet for testing purposes. Just do a search for one or use the following test credit card number:

5105105105105100

Note: Not sure if this credit card number will work if you try and use it to buy books or other such products on the internet. You could try it out !!!