

Credit Card Validation JavaScript Function

Source: <http://www.braemoor.co.uk/software/>

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This routine checks the credit card number. The following checks are made:

1. A number has been provided
  2. The number is a right length for the card
  3. The number has an appropriate prefix for the card
  4. The number has a valid modulus 10 number check digit if required
- If the validation fails an error is reported.

The structure of credit card formats was gleaned from a variety of sources on the web, although the best is probably on Wikipedia ("Credit card number"): [http://en.wikipedia.org/wiki/Credit\\_card\\_number](http://en.wikipedia.org/wiki/Credit_card_number)

Parameters:

cardnumber      number on the card  
cardname        name of card as defined in the card list below

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Date: 1st November 2003

Updated: 26th Feb. 2005      Additional cards added by request

Updated: 27th Nov. 2006      Additional cards added from Wikipedia

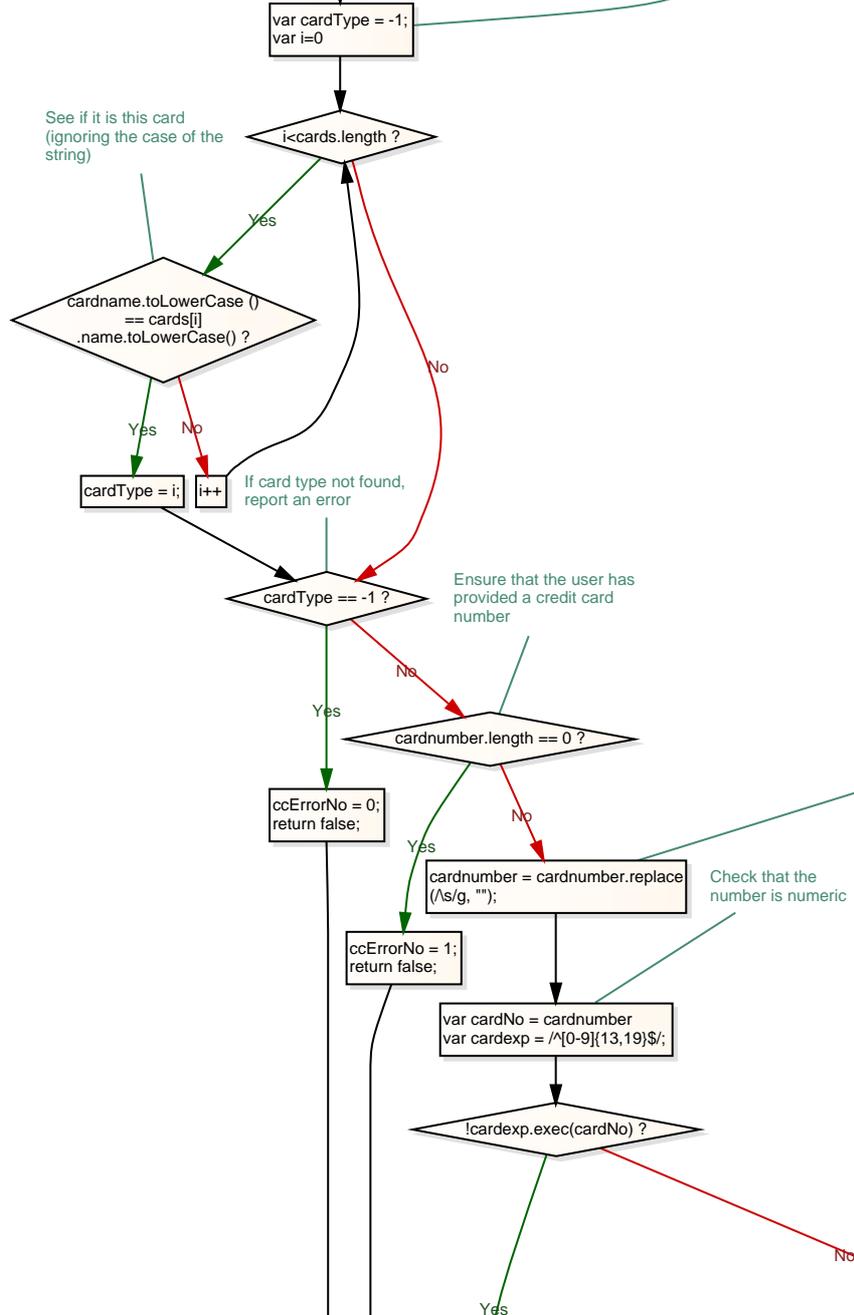
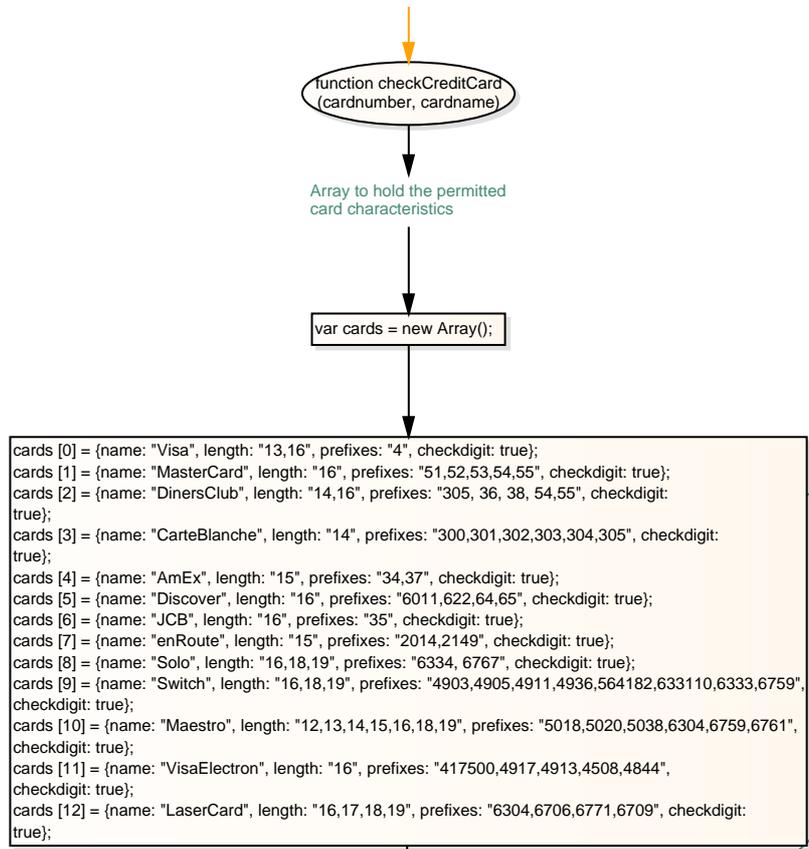
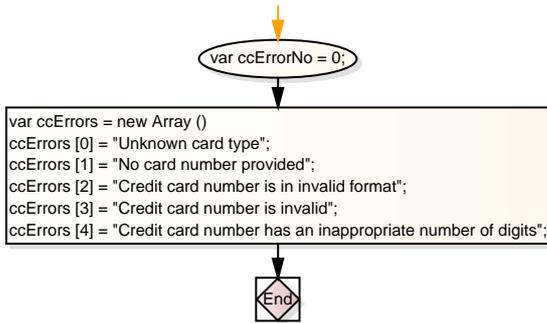
Updated: 18th Jan. 2008      Additional cards added from Wikipedia

Updated: 26th Nov. 2008      Maestro cards extended

Updated: 19th Jun. 2009      Laser cards extended from Wikipedia

If a credit card number is invalid, an error reason is loaded into the global ccErrorNo variable. This can be used to index into the global error string array to report the reason to the user if required:

e.g. if (!checkCreditCard (number, name) alert (ccErrors(ccErrorNo));



ccErrorNo = 2;  
return false;

checksum % 10 != 0 ?

Yes

See if all is OK by seeing if the length was valid. We only check the length if all else was hunky dory.

The credit card is in the required format.

!LengthValid ?

No

Yes

return true;

ccErrorNo = 4;  
return false;



Define the cards we support. You may add additional card types.  
Name: As in the selection box of the form - must be same as user's  
Length: List of possible valid lengths of the card number for the card  
prefixes: List of possible prefixes for the card  
checkdigit Boolean to say whether there is a check digit

Establish card type

Now remove any spaces from  
the credit card number

Now check the modulus 10  
check digit - if required

running checksum total

