

E-Commerce Development

ITS 330

Homework Two

Continue the development of your personal web site, adding links to these homework elements on the menu of choices on the default page.

Part 0: Time Tracking

No points, only good will

Same as for homework one. Include a note about your initial estimate and your final tally of time spent on this assignment. In that note, reflect on the differences in your guess (sorry, “estimate”) and the actual amount of time spent.

Part 1: Luhn Checksum Tester

15 points

1. Begin your own personal library of useful Javascript functions with **your implementation** of the Luhn checksum algorithm. Your validation function should take the credit card type and number as parameters and return true or false based on whether or not it’s valid according to the Luhn checksum.
2. Develop a page that prompts the user to enter their credit card data. Include **all** necessary fields and nice looking graphics.
3. Validate the credit card with your new Javascript function, prompting the user to re-enter it if it fails.
4. Validate the other data fields as well.

Once all the data has been fully validated and accurately collected...

Part 2

35 points

1. Allow the user to submit the credit card data via a POST to an ASP.Net server-side page you’ve written in C#.
2. This server-side page should dynamically generate perfectly valid XHTML that displays a nicely designed and professional looking receipt which includes:
 - a. All of the data entered in part one, except the full credit card number
 - b. The first two and final four digits of the credit card number
 - c. A random transaction number

As ever, this should be as attractive and professional looking as you can make it. Neatness counts! Remember, I am (obsessive?) compulsive about this stuff. Find your inner OCD and take advantage of it. Be the Monk.

Be sure to use your best development practices. These include but are certainly not limited to:

- Proper use of indenting in all code (HTML, XML, JavaScript, ASPX, etc.) Actually, if it’s not properly indented, don’t even bother handing it in.
- Descriptive control and variable identifiers
- Informative and meaningful comments
- Good aesthetic and visual design
- Obeys the laws of least astonishment