

CMPSC 421 - Net-centric Computing

Spring 2017

Date Assigned: 2 March 2017

Date Due: 17 March 2017 (Friday)

Assignment Instructions: This assignment involves implementing the pizza order form shown in Snapshot 1. You may customize the form in various ways (e.g., add or change toppings, change the layout of the form elements, sell sandwiches instead of pizza, etc.) but the number of components should remain basically the same (e.g., three or more sizes, five or more toppings, etc.). As before, you have the option of working on this assignment with a classmate. Assignment details appear below.

"Pizza Order Form" Implementation Requirements:

- *Basic functionality.* Write a script and an accompanying Web page in which to run it that implements a "Pizza Order Form". Your program must display a menu and allow the user to:
 - Select a size
 - Select zero or more toppings
 - Select pickup or delivery
 - Enter contact information (name, phone number)
 - Select a payment method (cash or credit)
 - Enter credit payment information (card type, number, expiration date, and security code)
 - Enter delivery address (street address, city, state, zip)
 - Preview order total before submitting (includes 6% sales tax)
 - Submit order
 - Clear order form
 - *Input validation.* Your script must perform input completion checks for each of the scenarios described in items one through four. It must also perform format validation checks for the types of user input described in item five. Snapshots from sample runs appear at the end of this document.
 - *Pickup and cash payment.* Name and phone number fields for contact information must be filled in (i.e., not blank).
 - *Pickup and credit payment.* Name and phone number fields for contact information must be filled in. Credit card type must be specified; card number, expiration date, and security code fields must be filled in.
 - *Delivery and cash payment.* Name and phone number fields for contact information must be filled in. Street address, city, state, and zip fields for delivery address must be filled in.
 - *Delivery and credit payment.* Name and phone number fields for contact information must be filled in. Street address, city, state, and zip fields for delivery address must be filled in. Credit card type must be specified; card number, expiration date, and security code fields must be filled in.
 - The phone number must be in the format "xxx-xxx-xxxx", where each "x" represents a digit. The zip code must be in the format "#####", where each "#" represents a digit. The credit card number must be in the format "#### #### ####", where each "#" represents a digit. The expiration date must be in the format "mm/yy", where "mm" represents a month as two digits and "yy" represents a year as two digits. The security code must be in the format "####", where each "#" represents a digit.
 - *Code and documentation.* You must use functions to compute the order total and implement the error-checking. You must also use comments to document the purpose of each function. In addition, all JavaScript code *must* be placed in a separate *.js file and linked to the *.html file.
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Please use good style when authoring your JavaScript and XHTML/HTML code. Specifically: Comment, indent, and space your code to make it more readable.

Submission Instructions: Create a folder in which to place all the files for this assignment (XHTML/HTML, JavaScript, and image files), compress it, and upload the compressed archive to Canvas by 11:59 p.m. on **Friday**, 17 March 2017. The file extension of the compressed archive must be .zip, .7z, or .rar. If you work on this assignment with a classmate, include a comment in your code specifying both of your names, and upload one compressed archive for both of you. Although optional, you may want to provide printouts with screenshots of your Web pages in the event they do not display [for me] as you intended. **Aside:** I plan to use Google Chrome to view your submissions.

Please note that the following snapshots were taken using Opera 43.

Snapshot 1

The screenshot shows a web browser window with a single tab titled 'Menu'. The address bar displays a file path: `file:///F:/Penn%20State%20Harrisburg/Spring%202017/CMPSC%20421/LHU%20Resources/Assignments/PSH%2`. The page content is titled 'Pizza Order Form'.

==== Pizza Menu ====

10" Small	6.00
14" Medium	10.75
16" Large	11.50
One Topping for 10" Pizza	1.00
One Topping for 14" or 16" Pizza	2.00

=====

Please complete the following form. Click "Submit Order" to place your order.

=====

Select a size:

☒ 10" Small ☐ 14" Medium ☐ 16" Large

Select your toppings:

☐ Pepperoni ☐ Sausage ☐ Mushrooms ☐ Onions ☐ Green Peppers ☐ Black Olives

Select pickup or delivery:

☒ Pickup ☐ Delivery

Enter your contact information:

Name:

Phone number:

Select a payment method:

☒ Cash ☐ Credit

Enter your payment information (credit customers only):

☒ Visa ☐ MasterCard ☐ Discover

Card number: Expiration date: Security code:

Enter your address (delivery customers only):

Street Address:

City: State: Zip:

=====

Order total:

Total Cost:

Submit order:

=====

Snapshot 2

Menu
Speed
TV Lic
Penn
Canva
Drex
West
WRTI
IMDb Bone
W Enoz
GitH
ICER
Pi: x
+
file:///F:/Penn%20State%20Harrisburg/Spring%202017/CMPSC%20421/LHU%20Resources/Assignments/PSH%2

Pizza Order Form

===== Pizza Menu =====

10" Small
14" Medium
16" Large
One Topping for 10" Pizza
One Topping for 14" or 16" Pizza

This page says:
Order successfully submitted
3/1/2017, 12:46:36 PM
☐ Prevent this page from creating additional dialogs.

OK

Please complete the following form. Click "Submit Order" to place your order.

Select a size:

☒ 10" Small
☐ 14" Medium
☐ 16" Large

Select your toppings:

☐ Pepperoni
☐ Sausage
☒ Mushrooms
☒ Onions
☒ Green Peppers
☐ Black Olives

Select pickup or delivery:

☒ Pickup
☐ Delivery

Enter your contact information:

Name:
Phone number:

Select a payment method:

☒ Cash
☐ Credit

Enter your payment information (credit customers only):

☒ Visa
☐ MasterCard
☐ Discover

Card number:
Expiration date:
Security code:

Enter your address (delivery customers only):

Street Address:

City:
State:
Zip:

Order total:

Total Cost:

Submit order:

Snapshot 3

Menu
TV Li
Penn
Canvz
Drexe
West
WRTI
IMDb Bone
W Enoz
GitHi
ICER
Pi: x
+
file:///F:/Penn%20State%20Harrisburg/Spring%202017/CMPSC%20421/LHU%20Resources/Assignments/PSH%2

Pizza Order Form

===== Pizza Menu =====

10" Small	
14" Medium	
16" Large	
One Topping for 10" Pizza	
One Topping for 14" or 16" Pizza	2.00

This page says:
Format of phone number is incorrect.
☐ Prevent this page from creating additional dialogs.
OK

Please complete the following form. Click "Submit Order" to place your order.

Select a size:

☐ 10" Small
☒ 14" Medium
☐ 16" Large

Select your toppings:

☒ Pepperoni
☐ Sausage
☒ Mushrooms
☐ Onions
☐ Green Peppers
☐ Black Olives

Select pickup or delivery:

☐ Pickup
☒ Delivery

Enter your contact information:

Name:

Phone number:

Select a payment method:

☒ Cash
☐ Credit

Enter your payment information (credit customers only):

☒ Visa
☐ MasterCard
☐ Discover

Card number:
Expiration date:
Security code:

Enter your address (delivery customers only):

Street Address:

City:
State:
Zip:

Order total:

Total Cost:

Submit order:

Snapshot 4

Menu

Speed TV Live Penn Canva Drexel West WRTI IMDB Bone W Enoz GitHub ICER Pi x +

file:///F:/Penn%20State%20Harrisburg/Spring%202017/CMPSC%20421/LHU%20Resources/Assignments/PSH%2

Pizza Order Form

===== Pizza Menu =====

10" Small

14" Medium

16" Large

One Topping for 10" Pizza

One Topping for 14" or 16" Pizza2.00

Please complete the following form. Click "Submit Order" to place your order.

Select a size:

☐ 10" Small ☒ 14" Medium ☐ 16" Large

Select your toppings:

☒ Pepperoni ☐ Sausage ☒ Mushrooms ☐ Onions ☐ Green Peppers ☐ Black Olives

Select pickup or delivery:

☐ Pickup ☒ Delivery

Enter your contact information:

Name: Lisa

Phone number: 610-696-5140

Select a payment method:

☐ Cash ☒ Credit

Enter your payment information (credit customers only):

☐ Visa ☒ MasterCard ☐ Discover

Card number: 5432 9876 1200 3570

Expiration date: 07/18

Security code: 987

Enter your address (delivery customers only):

Street Address:

City: West Chester

State: PA

Zip: 19380

Order total:

Total Cost: \$15.64

Submit order:

Submit Order

Clear Order Form

This page says:

Street address field cannot be empty.

☐ Prevent this page from creating additional dialogs.

OK