

Assignment4

Part 1

A4 Requirements:

1. cd to local **repos** subdirectory:

Mac: `cd /Applications/Ampss/www/repos`

Windows: `cd "c:\Program Files (x86)\Ampss\www\repos"`

Note: *Be careful*! Windows **must** use quotation marks because of spaces in directory names. ☹

2. Clone assignment starter files:

`git clone https://bitbucket.org/mjowett/lis4381_student_files`

(clones **lis4381_student_files** Bitbucket repo)

3. Review subdirectories and files

4. Open **index.php** and review code:

- a. Suitably modify meta tags
- b. Change title, navigation links, and header tags appropriately
- c. Add form controls to match attributes of **petstore** entity
- d. **Add the following jQuery validation and regular expressions-- as per the entity attribute requirements (and screenshots below):**
 - i. ***All*** input fields, except **Notes** are required
 - ii. Use min/max jQuery validation
 - iii. Use **regex** to only allow appropriate characters for each control:
 - pst_name, pst_street, pst_city, pst_state, pst_zip, pst_phone, pst_email, pst_url, pst_ytd_sales, pst_notes
 - Name** (provided): letters, numbers, hyphens, and underscore
 - Street, City** (provided): no more than 30 characters
 - Street: must only contain letters, numbers, commas, hyphens, or periods
 - City: can only contain letters, numbers, hyphens, and space character (29 Palms)
 - State:** must be 2 characters
 - must only contain letters
 - Zip:** must be between 5 and 9 digits, inclusive
 - must only contain numbers
 - Phone:** must be 10 digits, including area code
 - must only contain numbers
 - Email:** See <http://www.qcitr.com/usefullinks.htm#lesson7>
 - URL:** no more than 100 characters
 - See <http://www.qcitr.com/usefullinks.htm#lesson7>
 - YTD Sales:** no more than 10 digits, including decimal point
 - can only contain numbers, and decimal point (if used)
 - iv. ***After*** testing jQuery validation, use **HTML5** property to limit the number of characters for each control
 - v. Research what the following validation code does:

```
valid: 'fa fa-check',
invalid: 'fa fa-times',
validating: 'fa fa-refresh'
```

5. Create a **favicon** using ***your*** initials, and place it in each assignment's main directory, including **lis4381**: Example: <https://www.favicon-generator.org/>

Developer Notes:

- A1, A2, A3, and P1 links ***must*** work, ***and*** each index.php file should have content, as per the associated Bitbucket README.md files.
- Research: bootstrap responsive image size, including images w/in the carousel component.

Helper Videos:

1. http://www.qcitr.com/vids/LIS4381_A4a.mp4
2. http://www.qcitr.com/vids/LIS4381_A4b.mp4

Note:

Be sure to review the include files to see what they do, and how they work--though, **do *not* change them!** After the end of the semester, you can modify these files to test newer versions of Bootstrap--**but, wait until all course work has been completed.**

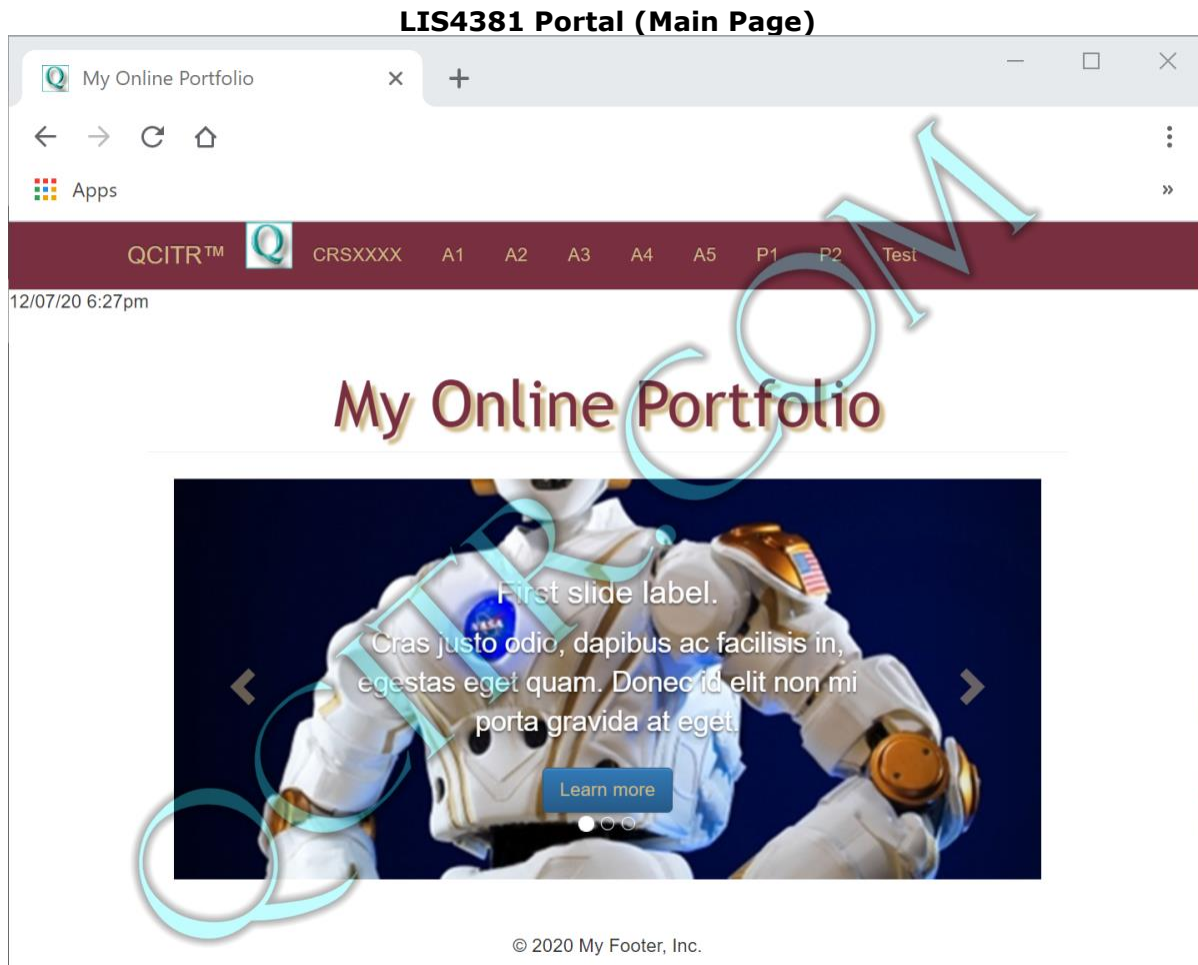
Part 2

README.md file should include the following items:

1. **Course title, your name, assignment requirements, as per A1;**
2. Screenshots as per below examples;
3. Link to **local lis4381 web app**: <http://localhost/repos/lis4381/>

Deliverables:

1. Provide **Bitbucket** read-only access to **lis4381** repo, include links to the other assignment repos you created in **README.md**, using Markdown syntax (**README.md** must also include screenshots as per above.)
2. **FSU's Learning Management System**: include lis4381 **Bitbucket** repo link
3. ***Note***: the carousel ***must*** contain (min. 3) slides that either contain text or images that link to other content areas marketing/promoting your skills.



Failed Validation

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Apps

QCITR™ CRSXXXX A1 A2 A3 A4 A5 P1 P2 Test

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Assignment 4

Basic client-side validation

This project uses Bootstrap client-side validation.

(Table: petstore)

Pet Stores

Name:

✖

Name required

Street:

✖

Street required

City:

✖

City required

State:

✖

State required

Zip:

✖

Zip required, only numbers

Phone:

✖

Phone required, including area code, only numbers

Email:

✖

Email address is required

URL:

✖

URL required

YTD Sales:

✖

YTD sales is required

Notes:

✔

Add

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Apps »

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Assignment 4

Basic client-side validation

This project uses Bootstrap client-side validation.

(Table: petstore)

Pet Stores

Name:	<input type="text" value="Store_1"/>	✓
Street:	<input type="text" value="123 Main St."/>	✓
City:	<input type="text" value="Any Town"/>	✓
State:	<input type="text" value="FL"/>	✓
Zip:	<input type="text" value="12345"/>	✓
Phone:	<input type="text" value="8505551212"/>	✓
Email:	<input type="text" value="jdoe@aol.com"/>	✓
URL:	<input type="text" value="http://www.jdoe.com"/>	✓
YTD Sales:	<input type="text" value="0.00"/>	✓
Notes:	<input type="text" value="Work on YTD Sales! :)"/>	✓

Add

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Part 3

Questions (PHP/MySQL: Chs. 9, 10, 15):

1. Which of the following functions returns the length of a string (i.e., number of characters that it contains)?
a. strlen() b. strlen() c. length() d. strlen()
2. If you want to round a number within an arithmetic expression, which function should you use?
a. number_round b. round c. sprintf d. round_num
3. Using strcmp(\$str1, \$str2) function for a "natural" comparison of two values
a. is case-sensitive
b. returns -1 if \$str2 comes before \$str1
c. would evaluate both "09" and "9" as being before "10"
d. would evaluate "10" as being before both "09" and "9"
4. Why is it important not to begin an integer value with a zero (e.g., 03), when working with numbers in calculations?
a. Because it would be treated as a hexadecimal value, and yield an incorrect result.
b. Because it would be treated as a decimal value, and yield an incorrect result. c. Because it would be treated as an octal value, and yield an incorrect result.
d. Because it would be treated as a whole number, and yield an incorrect result.
5. When you create a DateInterval object, you can use the format() method, and pass it a number of arguments that specifies a format code for one or more of the following descriptions:
a. years, months, days
b. hours, minutes, seconds
c. years, months, days, hours, minutes, seconds
d. years, months, days, hours, minutes, seconds, and sign (+ or -) of the date interval
6. When you use the substr function to extract a substring from a string, you need to at least pass an argument that gives
a. the characters in the substring that you're looking for
b. the starting position of the substring
c. the length of the substring
d. the separators for the substring

```
$current_date = new DateTime();  
$due_days_diff = $current_date->diff($due_date);  
if ($current_date > $due_date) {  
    $overdue_message = $due_days_diff->format(  
        '%y years, %m months, and %d days overdue.' );  
}
```

7. If \$due_date contains a DateTime object, \$due_date_diff will contain
a. a Timestamp object
b. a DateTime object
c. a DateInterval object
d. a TimeInterval object
8. In order to print out a variable's value, when you code a variable name within a string literal, you have to enclose the literal within _____ quotation marks.
a. either double or single
b. single
c. double
d. neither double or single

9. A `DateInterval` object represents a/an _____ time.
- period of
 - point in
 - exact
 - instance in
10. A substring within a string is identified by its _____ and its _____ within the string.
- length, ending position
 - length, starting position
 - value, starting position
 - length, value
11. A timestamp stores the number of _____ since midnight on January 1, 1970 GMT.
- Milliseconds
 - Hours
 - Minutes
 - seconds
12. After you create a `DateTime` object, you can use its `setTime` method to change the time or its _____ method to change the date.
- `setDateValue`
 - `setValueDate`
 - `setDate`
 - `setValue`
13. One of the methods of a _____ object lets you add a `DateInterval` object to the object.
- `TimeInstance`
 - `Date`
 - `DateInstance`
 - `DateTime`
14. Because most systems today store timestamps as 32-bit signed integers, the upper limit of a timestamp on these systems is January 19 in the year _____.
- there is no year limit
 - 2099
 - 2038
 - 2199
15. By using _____, you can put special characters into a string literal that would otherwise be interpreted incorrectly by PHP.
- escape sequences
 - `n2br` function
 - ASCII characters
 - ANSI characters
16. By using the _____ function, you can send special characters to the browser in a way that they will be displayed correctly.
- `xmlentities`
 - `html5entities`
 - `htmlentities`
 - `xhtmlentities`

17. The _____ function returns the largest value of the two or more arguments that are passed to it.
- a. ceil()
 - b. max()
 - c. largest()
 - d. maximum()
18. If a number in a PHP application is larger than the maximum value that PHP provides for, it is converted into the PHP constant named _____.
- a. OUT_OF_BOUNDS
 - b. MAXIMUM
 - c. INFINITE
 - d. INF
19. The date function makes it easy to create a timestamp for the current date and then _____ before returning the value.
- a. convert it to Unix Epoch time
 - b. convert it to timestamp
 - c. return a string formatted as a date
 - d. convert it to numbers
20. The diff method of a DateTime object requires another DateTime object as its argument and returns a _____ object.
- a. DateInterval
 - b. IntervalDate
 - c. DateInt
 - d. Date
21. The explode function returns an array of strings from a single string based on the _____ character that you specify.
- a. HTML
 - b. XML
 - c. delimiter
 - d. ISO
22. The ltrim and rtrim functions let you _____ from the front or back of a string.
- a. replace all spaces
 - b. remove all spaces
 - c. remove all characters
 - d. include all characters
23. The strcasecmp function is _____. As a result, "Anders" comes before "zylka".
- a. case-corrective
 - b. case-specific
 - c. case-sensitive
 - d. case-insensitive
24. The use of _____ objects resolves the Y2K38 problem because the upper limits of dates and times are essentially removed.
- a. Interval
 - b. Date
 - c. DateTime
 - d. Time

25. To create a DateTime object for the current date, you use the _____ and pass no arguments to the constructor.
- new keyword
 - time() function
 - date() function
 - new function
26. Type casting refers to PHP code that converts a value from one _____ to another.
- numeric type
 - data type
 - value
 - character type
27. In an if statement, which is a correct right way to find out whether the string in \$a comes before (is less than) the string in \$b in a case-insensitive comparison?
- if (\$a < \$b)
 - if ((strtolower(\$a) < (strtolower(\$b)))
 - if (strcmp(\$a, \$b) < 1)
 - if (strnatcmp(\$a, \$b) < 1)
28. With the use of the following escape sequences, what is stored in \$message by the code that follows?
- ```
$message = "The file is in \"C:\\My Documents\"";
```
- The file is in C:\My Documents Selected
  - The file is in "C:\My Documents"
  - The file is in C:\\My Documents\
  - The file is in "C:\\My Documents\"
29. A list of functions or methods in the reverse order in which they were called is a(n)\_\_\_\_\_.
- exception
  - program break
  - method array
  - stack trace
30. If you want to code a catch block that catches all types of exceptions and gets the message associated with the exception, you start the catch block like this:
- catch (Exception \$e) {
  - catch (PDOException \$e) {
  - catch (Exception, \$e) {
  - catch (PDOException, \$e) {
31. Regular expressions
- can be used to completely validate all types of user entries
  - can only be used to check whether user entries have the right format
  - can be used to completely validate some types of user entries
  - are limited to the validation of string data
32. Runtime errors that occur due to unexpected error conditions are called \_\_\_\_\_.
- logical fallacies
  - exceptions
  - breakpoints
  - watchpoints



33. This pattern can be used to validate a five-digit zip code:
- a. `/[d5]/`
  - b. `/+\d[5]?/`
  - c. `/^\d{5}$`
  - d. `/$\d5^/`
34. To get the message that's related to an exception, you use the
- a. message property of the exception object
  - b. `getMessage` method of the exception object
  - c. message property of the exception class
  - d. `getMessage` property of the exception class
35. What modifier can be added to the end of a regular expression in PHP to make it case insensitive?
- a. `i`
  - b. `g`
  - c. `s`
  - d. `a`
36. Which character is used to signify the beginning of the string in a PHP regular expression?
- a. `^`
  - b. `$`
  - c. `\b`
  - d. `\B`
37. Which character is used to signify the beginning or the end of a word in a PHP regular expression?
- a. `^`
  - b. `$`
  - c. `\b`
  - d. `\B`
38. Which character is used to signify the end of the string in a PHP regular expression?
- a. `^`
  - b. `$`
  - c. `\b`
  - d. `\B`
39. Which function searches for a regular expression in a string and returns 1 if the pattern is found?
- a. `match_preg`
  - b. `preg_match`
  - c. `search_preg`
  - d. `preg_search`
40. Which of the following are coded patterns that you can use to search for matching patterns in text strings?
- a. regular comparisons
  - b. wild cards
  - c. regular expressions
  - d. breakpoints

41. Which of the following will match any character that is **NOT** a letter, number, or underscore in a PHP regular expression?

- a. \w
- b. \W
- c. \d
- d. \--

42. Which of the following will match any digit in a PHP regular expression?

- a. \w
- b. \W
- c. \d
- d. \9

43. Which of the following will match any letter, number, or underscore in a PHP regular expression?

- a. \w
- b. \W
- c. /d
- d. /c