6/25/2015 MidtermInfo

CMSC389N Summer 2015 (Midterm II Information)



General Information

- Date: Mon, Jun 29
- Time/Location: Your exam will take place in lecture.
- **Duration:** 75 minutes
- Closed-book, Closed-notebooks, No Computers/Calculators.
- Use a pencil/mechanical pencil (no pen) to answer the exam.
- Please take a look at the general exam rules available at **Exam Rules**.
- Information about taking exams **Taking Exams**
- Posting any information in Piazza about the exam after taking it is considered an academic integrity violation.

Exam Structure

- Short answer questions: This includes for example, multiple choice, true/false and fill-in-the-blank type questions.
- Code analysis questions: We will give a short segment of code and you may be asked to identify syntax and logical errors, generate code output, etc.
- Code Writing: Write a program/code snippets to solve a given problem. You should be prepared to give a complete program, but we may also ask you to provide just a single function or a code fragment.

Topics

The exam will include all the material covered in lecture and projects including the following topics:

- Only the following HTML
 - How to define tables.
 - How to define ordered and unordered lists.
 - How to define forms using text fields, hidden fields and submit buttons. You don't need to know any other form elements (e.g., radio buttons, etc.)
 - o Other tags you should be familiar with:
 -
br>
 -
 -
 - <h1></h1>
 - <div></div>
 -

 -
 - <a>
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- · Only the following CSS properties
 - color
 - o font-size
- CSS Selectors
 - o id selectors
 - class selectors
 - type selectors
- PHP Language
 - o echo
 - print
 - o variables
 - superglobals
 - expressions
 - casting
 - constants
 - o conditional statements
 - o iteration statements
 - functions
 - default arguments

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- Arrays
- o foreach
- o array_keys(), count(), array_values(), functions
- string functions: only explode() and trim()
- o include functions: only require once
- heredoo
- o self-referencing scripts
- header function
- type conversions
- o processing information submitted via forms using PHP
- Reading/writing from files
- Cookies
- Sessions
- o array map
- o rand()
- o htmlspecialchars, htmlentities
- SQI
- how to create a table of strings and integers
- how to insert a record in a table
- how to delete a record
- how to display the table
- Server Side Includes
- Object-Oriented PHP
 - defining classes and interfaces
 - Constructor
 - Using \$this
 - toString
 - parent::
 - static fields and methods
 - public, private, protected
 - const
 - ::self
 - get_class
- JavaScript
 - JavaScript data types
 - Expressions
 - prompt
 - alert
 - console
 - Iteration constructs(while, for in, etc.)
 - Functions
 - Form Validation Using JavaScript
 - DOM
 - document.getElementByld
 - getAttribute, setAttribute
 - innerHTML
 - charAt
- JavaScript object definition
- Object properties
- o Objects as associative arrays
- strict mode

The exam will **NOT** cover the following topics:

- XAMPP configuration, jQuery Mobile, PHP date functions, DNS, serialization, security information provided in slides, PHP file_get_contents
- You don't need to know the JavaScript code used to identify which element has been selected in checkboxes, drop-down lists, scrollable lists, radio buttons, textarea.
- prototypes, execution context, constructor/prototype/default pattern, AJAX, private variables, private functions, sealing/freezing objects, Error, regular expressions, JSON, iframe, video tag, audio tag, canvas tag, svg tag, geolocation, local storage.