7/6/2015 Final Exam Info

CMSC389N Summer 2015 (Final Exam Information)



General Information

- Date: Fri, Jul 10
- Time/Location: Your exam will take place in lecture.
- Duration: 120 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
 - o How to define tables.
 - o 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.)
 - Other tags you should be familiar with:
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 - <h1></h1>
 - <div></div>
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 - <a>
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- Only the following CSS properties
 - color
 - font-size
- CSS Selectors
 - o id selectors
 - o class selectors
 - type selectors
- SQL
 - o how to create a table of strings and integers
 - o how to insert a record in a table
 - how to delete a record
 - how to display the table
- Server Side Includes
- PHP Language
 - echo
 - print
 - variables
 - superglobals
 - expressions

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- casting
- o constants
- conditional statements
- o iteration statements
- o functions
- o default arguments
- Arrays
- foreach
- array_keys(), count(), array_values(), functions
- string functions: only explode() and trim()
- o include functions: only require once
- heredoc
- 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
- rand()
- o htmlspecialchars, htmlentities
- 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
 - o console
 - o Iteration constructs(while, for in, etc.)
 - Functions
 - Form Validation Using JavaScript
 - o DOM
 - document.getElementById
 - o getAttribute, setAttribute
 - o innerHTML
 - o charAt
 - JavaScript object definition
 - Object properties
 - Objects as associative arrays
 - strict mode
 - Prototypes, execution context, constructor/prototype/default pattern
 - o Private variables, private functions, sealing/freezing objects
 - Error
 - JSON
 - o AJAX
- · Security information provided in slides
- localstorage

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

- XAMPP configuration, ¡Query Mobile, PHP date functions, DNS, serialization, 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.
- Regular expressions, iframe, video tag, audio tag, canvas tag, svg tag, geolocation, jQuery, Node.js.