CSE-C3210 Web Software Development : Exam

April 2014

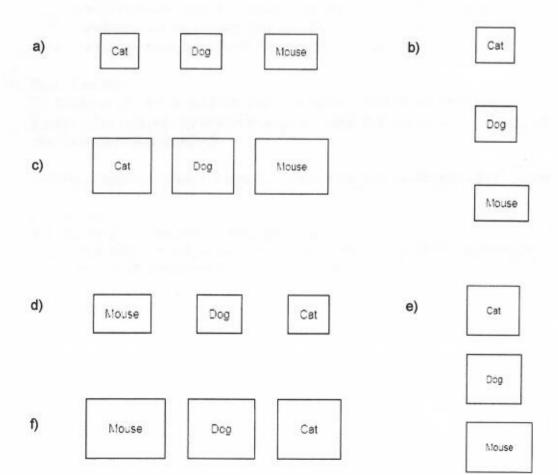
- All answers should easily fit on a single answer sheet.
- Write on each paper your name, your student number including any checking characters, the code and name of this course, examination hall, date, the number of papers returned and your signature.
- If the question number is followed by an asterisk , you should select all options that apply. If there is no asterisk, select only one.
- All questions except 11 are worth one point. Some are easier, some are harder.
- No additional material allowed.

HTML & CSS

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- 1. What is the key difference between a div and a span? (max 2 sentences)
- 2. For the following fragment of HTML

Which of these images best describes the resulting layout?



HTTP

- Explain briefly the difference in how GET and POST parameters are sent to a server. (2 sentences.)
- 4. How does a server set cookies?
 - a. Browser automatically requests for cookies from a standardized URL
 - b. Cookies are given in the HTTP headers
 - c. Cookies are included in the head element of html pages
 - d. Cookies are given using the link tag and loaded as separate files
 - e. None of the above

JavaScript & jQuery

5. Explain briefly what each element a-f does in the following piece of code. Don't explain the syntax but rather why the element is necessary. It might be a good idea to start from the innermost parts first so that you don't have to repeat yourself.

b d c e f

\$("#myButton").click(function(){ alert("Plop"); });

Sessions & Security

- 6. When you are using Django's session framework, what data is stored on the server and what on client (i.e. browser)? (max 3 sentences)
- 7. James signed up in the photo service we built as the course project and typed in some weird image captions for an image of a cat. The **beginnings** of the texts he wrote are shown below. What is he trying to do? Explain briefly.
 - a) Cat'); INSERT INTO rest of the text not shown
 - b) Cat<script> rest of the text not shown

Web Services

- 8. Which of the following are true?
 - a. In REST, each resource gets a unique URL
 - b. A GET request can be used instead of a PUT to create REST resources
 - c. REST interfaces are always used with forms
 - d. All Django apps have a REST interface

Django

- 9. Which claims below are true about Django's Models
 - a. Models are typically changed in templates
 - Django's models don't have to be designed for a specific relational database (MySQL, Postgres, etc..).
 - c. Models convert data from relational database form to objects and vice versa
 - d. ForeignKey fields are used to refer to other objects.
- 10. Which of the following statements are true for Django templates?
 - a. In addition to HTML, templates should always be used to render css files
 - b. It is possible to make a for-loop over a list of items in a template
 - c. Variables can be used in templates this way: {% variable_name %}
 - d. Templates can contain and execute arbitrary Python code
 - e. Templates can specify HTTP Headers for the response

11. (total 3 points)

The following is a Django view that could have been in someone's course project (it wasn't) The purpose of this view is to delete a page from an album you own. Explain the code line by line. (2 point)

There is a security problem in the code. What is it and how would you fix it? (1 point)