Web and Distributed Programming

Instructor: Eric Pogue

Session: 21

Agenda:

1.   Friendly Conversation & Good Natured Banter

2.   Quick Review of Assignments From Last Class

3.   Midterm Exam 1 Comments/Review

4.   Google Maps Coding Session… Week 7 Lab & Project 3: Google Maps!

Discussion & Questions welcome at any time… please be present with no phones or email during our discussion time

Assignment From Last Class

Assignment:

- Work on Project 3 due Wednesday, Oct 23
- Compete Ch.6

Review Midterm Exam #1

Essay Question 1

What are HTML, CSS, and JavaScript and what are the main uses for each? Please provide a detailed explanation.

Answer:

HTML is the HyperText Markup Language. It is a language used for developing Web Pages. It works by marking up text of the document with tags that specify the structure and in some cases the presentation of the page to the browser.

CSS are Cascading Style Sheets. It is a language used for specifying the presentation of a document written using a markup language like HTML.

JavaScript is a scripting language used for developing dynamic web pages which can interact with the user. Common tasks that can be handled by JavaScript include validating user input, sending alerts to users, dynamically generating or changing HTML content, and game development.

Essay Question 2

What is a regular expression? What is its purpose and how can it be used within JavaScript?

Answer: Regular expressions are a sequence of special characters which denote a pattern. They are used for matching various patterns in strings. Commonly, regular expressions are used for input validation and general text processing. In JavaScript, regular expressions are used for string methods that do pattern matching such as search, match, or replace. Alternatively, they can also be stored within a RegExp object and also used for pattern matching.

Essay Question 3

What is HTTP and how does it work? Provide a detailed explanation.

Answer:

HTTP is the HyperText Transfer Protocol. It is an application layer protocol for the World Wide Web. It specifies how communication should be performed between a Web Browser and the Web Server. Using this protocol, the Web Browser sends a request message to the Web Server, indicating a request for a specific document. The Web Server receives this message, and sends back a response message with either the requested document or a dynamically generated document. The Web Browser then displays the contents of the response message to the user.

Essay Question 4

Write the HTML code that will insert a hyperlink image in a document. The image filename is "pic.jpg" and the hyperlink URL is "page.html".

Answer:

```
<a href = "page.html" >
   <img src="pic.jpg" />
</a>
```

Other Questions

Which of the following regular expression will find a match in the following string?
"Lewis University Fall 2012 CS 247-1"

Answer: /\d\d\d/

Which of the following regular expression will find a match in the following string?
"Lewis University Fall 2012 CS 247-1"

Incorrect:

/247*-[a-z]/

Correct Answer:

/\d\d\d/

Midterm Exam 1 Final Notes

- If you disagree on a question send me and email the provides the question, your answer, and why you feel the answer is correct

- Overall Grades do not look like they are calculating correctly in Blackboard… I am looking into why this is the case

- Per the Syllabus Midterm Exam 1 will be 10% of your final grade

Todays Assignment

Assignment (before next class):

- Work on Project 3 due at the end of next week
- Complete Ch.7.1 through 7.4

Live Coding Tutorial
Google Maps API

Week 8 Lab & Project 3:
Google Maps!

End of Session

Course Number: CPSC-24700

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