Csci 4131

Parsing XML on the Server Side in node.js
More PhP

Lecture 25, November 28th

Fall 2018

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Logistics

- Homework 7 out – Adding Adminstrative Capabilites to Your Website for HW 6
  - Add Users
  - Delete Users
  - Edit User information
  - And, configure your database by getting the information to connect to the database from an XML file

Reading

XML – Sebesta, Chapter 7

Ajax Revisited – Sebesta Chapter 10

Tutorials:

https://www.w3schools.com/xml/default.asp

https://www.w3schools.com/xml/ajax_intro.asp

PHP

- Chapter 9, Sebesta, PHP
- Chapter 13.5 Sebesta, PHP and MySQL
- https://www.w3schools.com/php/default.asp gives a nice intro and overview of PhP.
- Do the cseit tutorial to make sure your account is configured to properly run PhP scripts:
- https://cseit.umn.edu/knowledge-help/php-tutorial

For HW 7

- You'll need an XML parser on the server side
- **xml2js** is one of the options
- See:
  - https://www.npmjs.com/package/xml2js-parser
  - http://programmerblog.net/parse-xml-using-nodejs/
- Add it to your node package manager

```
%npm install –save …
```

Demo?

Last Time

- XML Exercise Review

- XML wrap up
  - XSLT
  - The XML DOM
  - Parsing an XML file on the Client Side using AJAX and JavaScript

Questions?

Today

- Parsing XML on in a node.js server
- PHP, continued

Example

- Reading in an XML file and Using it in node.js

Exercise 1: Do alone or in groups, Label clearly with names/x500 ids turn in at the end of class

- Write a function `printstuff()` that prints out (to the console) all the information read in from the file test.xml and stored in the global variable named theinfo

- The output to the console should look like:

```
First name: Jim
Last name: Smith
Social Security Number: 0657639821
Location: Ohio
Age: 56
```

Back to PHP

- Readings: Sebesta – Chapter 9, Chapter 13.5
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Example 1, Revisited: Form on Client / PHP on Server

- Client – HTML form that gets data necessary to compute the simple interest on an Investment given the interest rate and the amount of time the money is invested
- Server – PHP code to get the data from the form
- Assume the data is correct
- Compute :

    Interest = Investment * Interest_Rate * Time
- Construct the HTML that will be sent back to the browser after PHP computations are complete

Simple Interest Example

- Simple Interest

- Interest = Investment (Principal) * rate * time

Make sure to do the Reading on PHP

- Sebesta:
  - Chapter 9
  - Chaptet 13.5