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Roger Okamoto

ASSIGNMENTS

Assignment - In progress

Complete the form, then choose the appropriate button at the bottom.

Title Assignment #4 - Part I Due May 7, 2007 5:00 pm

Status Not Started

Grade Scale Points (max 5.0)

Modified by instructor Apr 30, 2007 3:25 pm

Instructions

'Geography Quiz'

Your Fourth Homework Assignment for COIN 71 Part I due 5:00 pm, Monday, 7 May Part II due 5:00 pm, Monday, 14 May IMPORTANT: Midterm is 14 May also

Objectives: Create a ContentLoader object that queries the World database "world.sc

Run a servlet from your JavaScript program

Practice iterative development Design a usable user interface Material From: Chapter 5

Downloadable from our Etudes website in folder marked "Handouts from April 30":

LabTest.html, world.Country, world.City, world.CountryLanguage

Write a geography quiz where the user chooses from four types of questions, and the program poses the chosen type of question about a random country. The user answers the guestion and the program tells her if she is correct or not.

For example, if the user chooses to answer a question about capital cities, your progra will randomly select a country (e.g. France), pose the question, "What is the capital city of France?" to the user and place an XMLHttpRequest to the world database to get the answer to the question. Your program allows the user to repeatedly quess the answer until she gets it right, or to give up. If the user gives up, your program should of cours tell her the correct answer.

In order to find the correct answer to the question, your JavaScript program will create an SQL query and send it (via ContentLoader) to a php servlet, running on Krypton. Th servlet will send your guery on to the world.sgl database, get the response, and hand the response back to your JavaScript callback function in XML format. This servlet is already written (by Newton Chan) and the URL of this servlet is: http://krypton.fhda.edu/ajax/worldquery.php

Please note that an html or is file on your local machine cannot access this remote url

order to run this serviet. You must upload your files to krypton in order to access this url and run this serviet. This is because cross-site scripting is not allowed by most browsers.

You will continue to use ContentLoader from page 74 of Crane and Pascarello. Your SQ query will be sent in a string to the ContentLoader constructor as the fifth parameter (params). Below I have given you the correct syntax for calling the ContentLoader constructor:

var contentLoader = new net.ContentLoader(URL, mycallback, myerrorFunction, "POST queryString);

I have written 4 different queries in SQL, one for each type of question that the user conchoose. In the following 4 queries, you will substitute a randomly selected country name for the XXX. The beginning "q=" is required, and capitalization of table names is important!

- 1. What is the capital of country XXX?
- q=SELECT Name FROM world.City where id = (SELECT Capital FROM world.Country WHERE Name = 'XXX');
- What continent contains country XXX?
- q=SELECT Continent FROM world.Country WHERE Name = 'XXX';
- 3. Name a language that they speak in country XXX
- q=SELECT Language FROM world.CountryLanguage WHERE CountryCode=
 (SELECT Code FROM world.Country WHERE Name = 'XXX');
- 4. Name a city in country XXX that has over 1,000,000 people
- q=SELECT Name FROM world.City WHERE Population >1000000 AND CountryCode = (SELECT Code FROM world.Country WHERE Name = 'XXX');

Notes:

- All of the interaction with the user will take place on the browser window. No alert boxes or message boxes are allowed for the geography quiz.
- The question and the answer must appear on the browser window at the same time
- Lab Requirements: The server side php servlet must have an application server to run it, as well as an accessible database. We have this available for your use on Kryptc If you prefer, you can install an application server (Tomcat), MySql, world.sql, and the php servlet on your home computer and test it there. All of this software is open source so it is freely available. Please notify me if you expect to install your own server environment.
- Many of the countries listed in world. Country are pretty obscure, which would resul
 in questions that noone is ever able to answer. In order to make the quiz doable, choo
 a subset of approximately 30 countries. Store these in an XML or JSON file that your
 program can randomly select from when generating a question.
- Store the question types, the question text, and the question SQL in an XML or JSC file. This information is data, so it doesn't belong embedded in your JavaScript code.
- Please submit a link to your completed assignment through Etudes for grading.

Part I - due 5:00 pm, Monday, 7 May

You are required to submit a simpler version of this assignment in one week. This will a "proof of concept" that shows you can construct a geography question, make and ser an equivalent SQL query, and display the response on the browser window.

For this simpler version, the user gets to choose the type of question. This must be down with a radio button. Once the user has chosen the question type, your program

- ון) שבובנים מ בטעוונוץ נט משא נווב עעבשנוטון מטטענ,
- 2) displays the question in the browser window,
- 3) displays the XML response in the browser window*,
- 4) allows the user to choose another type of question, or to choose to get another question of the same type.
- * Note that for Part I, the answer can be displayed in XML. No parsing required yet!

It will save you a lot of time if you sketch out your user interface before starting Part I.

Submission

This assignment allows submissions using the text box below only. Type in your submission. Save frequently while working.

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