UNIVERSITY OF MICHIGAN SCHOOL OF INFORMATION Database Application Design

Assignment - Rock, Paper, Scissors

Due Date: Tuesday September 30

Overview

In this program, you will develop a simple Rock/Paper/Scissors application in PHP. It will also have a built in testing harness to exercise the game play evaluation.

Sample Output

When your program first starts, it will present the users with a choice of what to play:



When the user makes their selection and presses Play – the computer makes a fair play using a random number and reports the results.



In addition to the normal play mode, there is a testing mode that allows you to test all possible play combinations:



You can play with this application at:

http://www.php-intro.com/assn/games/rps.php

Skeleton Code

You need to download the starting point for this application at this URL:

http://www.php-intro.com/assn/games/rps_skel.txt

Your program **must** be derived from this skeleton code with the structure of the code intact with the additions as indicated in the skeleton code. Just writing (or downloading) a RPS game from the web for this assignment is not acceptable.

Add your name to the <title> tag in the HTML head area message.

The auto-grader will be picky about the format of the result line:

Your Play=Rock Computer Play=Scissors Result=You Win

It will want this all on the same line in the source HTML, with no extra spaces, and for the case to match strings like "Your Play", "Computer Play" and "Result". So check closely if you have problems with the auto grader. If you continue to have problems, carefully compare your markup to the markup generated by the sample solution at:

http://www.php-intro.com/assn/games/rps.php

Hand In

You will self-grade your assignment using the Auto-grader link under Lesson Builder. Here is an example of a successful run with the auto grader.

Welcome Charles Severance (Instructor)

Grading PHP-Intro Assignment 4

Re-run this test

Initial page http://www.php-intro.com/assn/games/rps.php...

Show retrieved page (Toggle) (444 characters)

Playing Rock

Show retrieved page (Toggle) (458 characters)

Found:Your Play=Rock Computer Play=Paper Result=You Lose

Correct play

Playing Paper

Show retrieved page (Toggle) (454 characters)

Found:Your Play=Paper Computer Play=Paper Result=Tie
br>

Correct play

Playing Scissors

Show retrieved page (Toggle) (461 characters)

Found:Your Play=Scissors Computer Play=Paper Result=You Win
br>

Correct play

Playing Rock

Show retrieved page (Toggle) (452 characters)

Found: Your Play=Rock Computer Play=Rock Result=Tie
br>

Correct play

Playing Paper

Show retrieved page (Toggle) (457 characters)

Found:Your Play=Paper Computer Play=Rock Result=You Win

Correct play

Score = 1 (5/5)

Test passed - congratulations

Sending 1 to https://ctools.umich.edu/imsblis/service/ sourcedid=ed60415d1818

Grade API Request (debug) (Toggle) (928 characters)

Grade API Response (debug) (Toggle) (807 characters)

Grade sent 1 to ed60415d1815197d9bad8326ac0bb26b6d9409209c7249bb40d

Grade updated result_id=4433 grade=1

Grade sent to server (1)