

University of Central Florida

CIS 4004 Web Based Information Technology

Assignment 4

Due, Sunday, April 7 2024 for 100% credit

Monday, April 8, 2024 for 90% credit

Tuesday, April 9, 2024 for 80% credit

Wednesday, April 10, 2024 for 70% credit

Assignment scope

This assignment is focused on writing PHP and will create a static version of a Connect Four board.



Resources

xampp

1. Use the popular bundled tool XAMPP (i.e. pronounced 'zamp')
 - a. <https://www.apachefriends.org/download.html>
2. What to do with XAMPP once installed
 - a. Run **XAMPP**
 - b. Click the **Start** button for **Apache**
 - c. Your source code should go in the **xampp/htdocs** folder, wherever you installed **XAMPP**
 - d. To view in the web browser, enter URL **localhost/connectfour.php**; if additional folder(s) were added under the

htdocs folder, include that in the URL (example:
localhost/CIS4004/Assignment4/connectfour.php)

Files provided

1. connectfour_template.php
2. connectfour.css

Assignment submission

Create a single folder for the files. Compress the folder and submit the compressed file (e.g. .zip)

Tasks

Activity	
File	
connectfour_template.php	1. Rename to connectfour.php
connectfour.css	
connectfour.css	<ol style="list-style-type: none"> 1. Modify the following colors to any color of your choice <ol style="list-style-type: none"> a. body, background-color b. .container, background-color c. .player1:before, background d. .player2:before, background e. .grid-box, background-color
connectfour.php	
connectfour.php	<ol style="list-style-type: none"> 1. In the <head> use the <style> element to include connectfour.css <ol style="list-style-type: none"> a. Inside the open/close <style> tags nest escaping to PHP <ol style="list-style-type: none"> i. include 'connectfour.css';
connectfour.php	<ol style="list-style-type: none"> 2. In the <body>, inside the escaping to PHP do the following <ol style="list-style-type: none"> a. Define constant ROWS with the value of 6 b. Define constant COLS with the value of 7 c. Define function createBoard to do the following <ol style="list-style-type: none"> i. Empty parameter list ii. Declare a two-dimensional array \$initialMatrix initialized to data values <ol style="list-style-type: none"> 1. row 0: 0, 0, 0, 0, 0, 0, 0, 0 2. row 1: 0, 0, 0, 0, 0, 0, 0, 0 3. row 2: 0, 0, 0, 0, 0, 0, 0, 0 4. row 3: 2, 1, 1, 2, 1, 0, 0 5. row 4: 1, 1, 2, 2, 1, 1, 2

	<p>6. row 5: 1, 2, 1, 2, 1, 2, 1</p> <p>d. Build the HTML by doing the following</p> <ol style="list-style-type: none"> print/echo an <h1> with the text Connect Four using class title print/echo a <table> using class container Iterate through the ROWS to create each <tr> <ol style="list-style-type: none"> print/echo a <tr> Iterate through the COLS to create each <td> <ol style="list-style-type: none"> If the value stored in array \$initialMatrix at indexes \$row and \$col is 1 <ol style="list-style-type: none"> Set variable \$class equal to 'player1' Else if the value stored in array \$initialMatrix at indexes \$row and \$col is 2 <ol style="list-style-type: none"> Set variable \$class equal to 'player2' Else <ol style="list-style-type: none"> Set variable \$class equal to 'empty' print/echo the <td></td> for the cell using attribute class set equal to variable \$class print/echo the closing </tr> for the table data <ol style="list-style-type: none"> print/echo the closing </table> for the table call function createBoard
Test Cases	
Test Case 1	Rendered PHP page looks similar to Figure 1

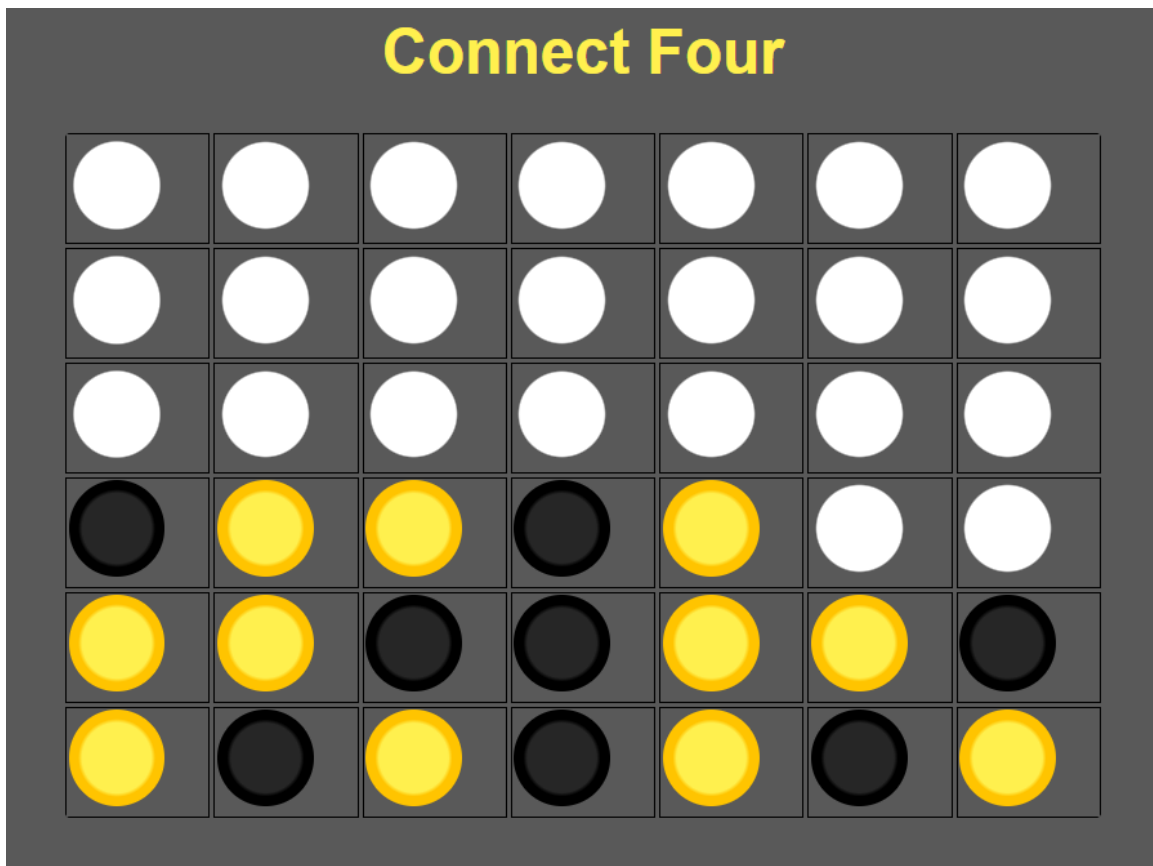


Figure 1 connectfour.php