Jeopardy

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Jeopardy Game

Problem Statement:

The problem was to create a popular game show with html, css and php and we choose to create the game "Jeopardy".

Our Jeopardy game website was created to bring a nostalgic form of excitement to those who find themselves easily bored during the summer months. We hope our Jeopardy game can be as entertaining as the Popular game show users are used to watching on tv while invoking the same thrill they felt while watching it.

Requirements

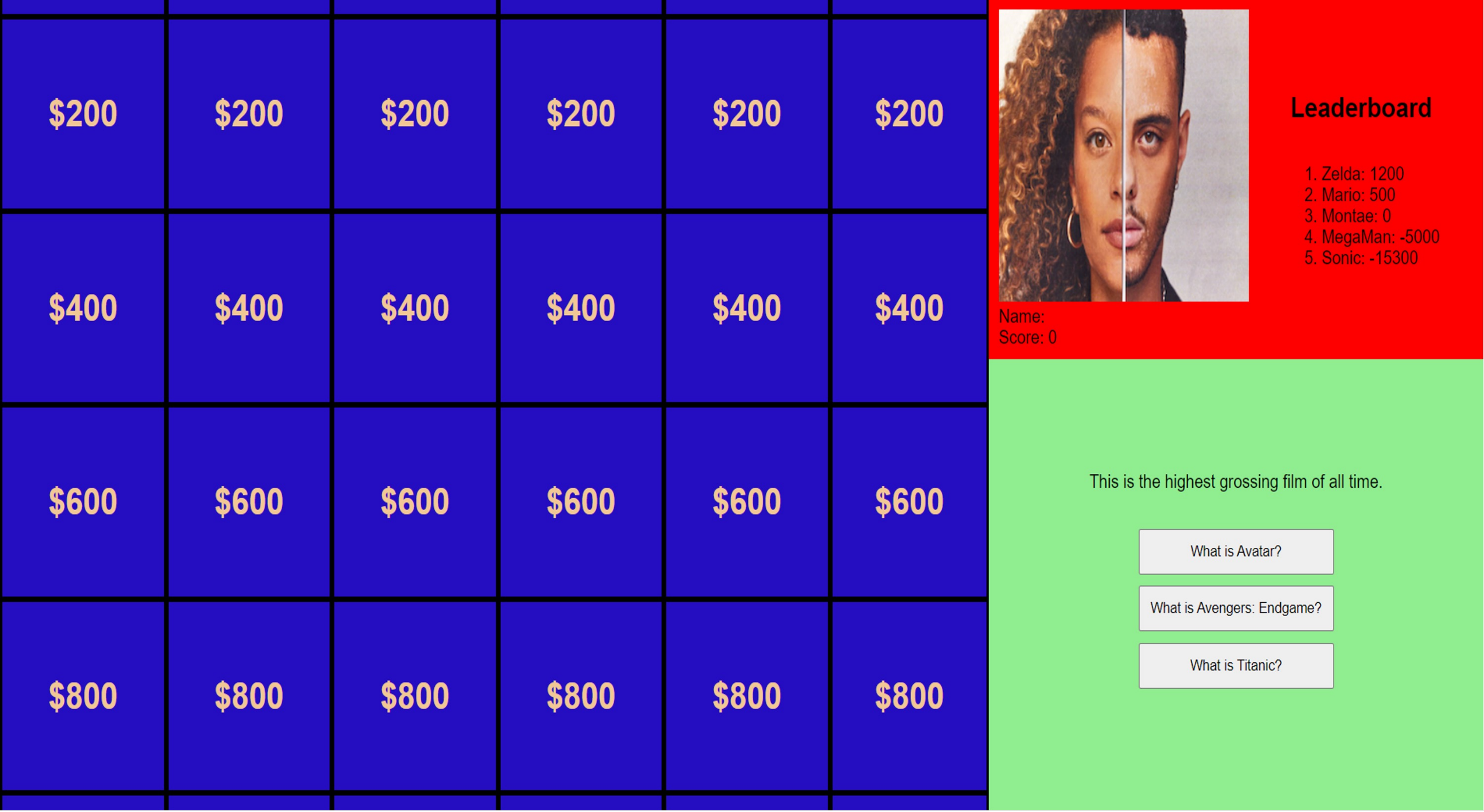
- HTML Scripts
- PHP code
- Css stylesheet
- Registration page
- Login page
- Have a leader board
- Keep the score

Scrum Framework

1. Increased Productivity: We were able to break the project down into smaller chunks which allowed us to delegate tasks more efficiently, and kept us focused on our individual tasks as a result increased our overall productivity.
2. Better communication: we had meeting and discussions everyday and we were able to give proper feedback to each other and discuss current and upcoming tasks.
3. Increase Motivation: Allowed us to stay motivated on our task because we knew what we each had to do and how our parts contributed to the main project.

General Solution

- Our Jeopardy game site starts off with a registration page where new user can register their account while existing users will be given the option to login.
- New users will have a score of 0.
- When users start to play the game there will be the Jeopardy board, the score and a leader board.
- When a number is clicked on the board there will be a question in form of an answer and answers in form questions.
- When an answer is selected the game informs you if the answer is correct or not and how much points you have won or lost.
- The players score will be kept and the leaderboard will reflect the scores of all player.
- Finally there is a restart and logout button for users to start the game over.



$200	$200	$200	$200	$200	$200
$400	$400	$400	$400	$400	$400
$600	$600	$600	$600	$600	$600
$800	$800	$800	$800	$800	$800

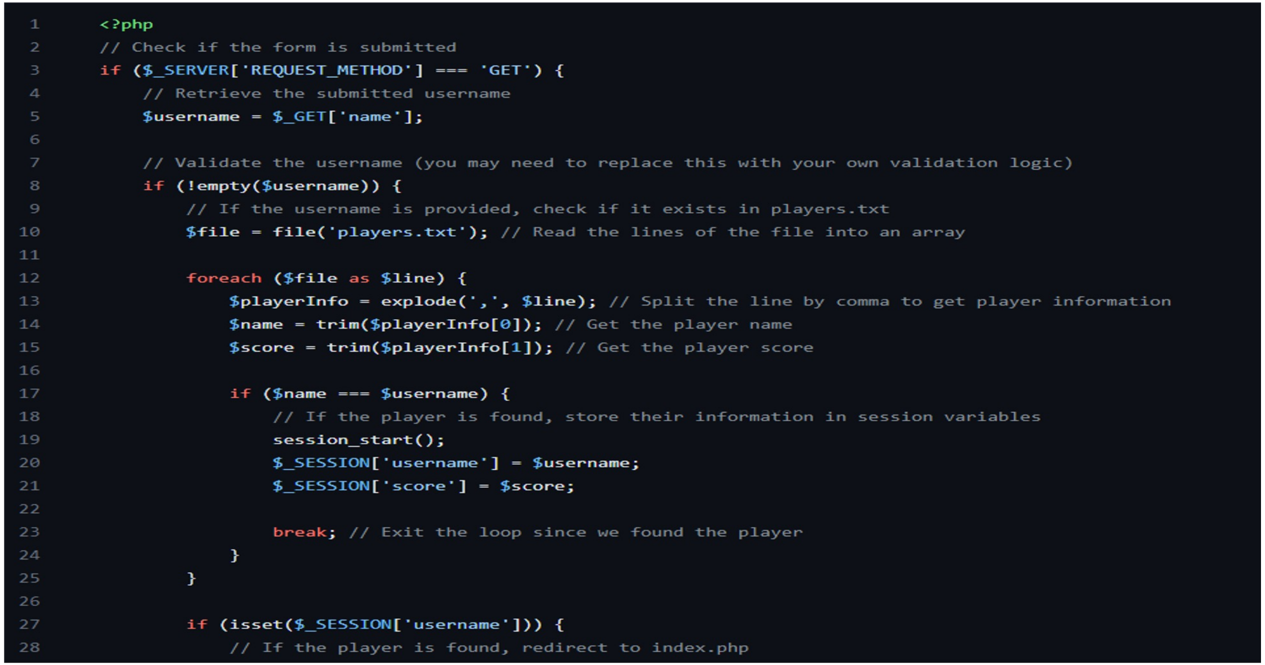
Leaderboard

1. Zelda: 1200
2. Mario: 500
3. Montae: 0
4. MegaMan: -5000
5. Sonic: -15300

Name:
Score: 0

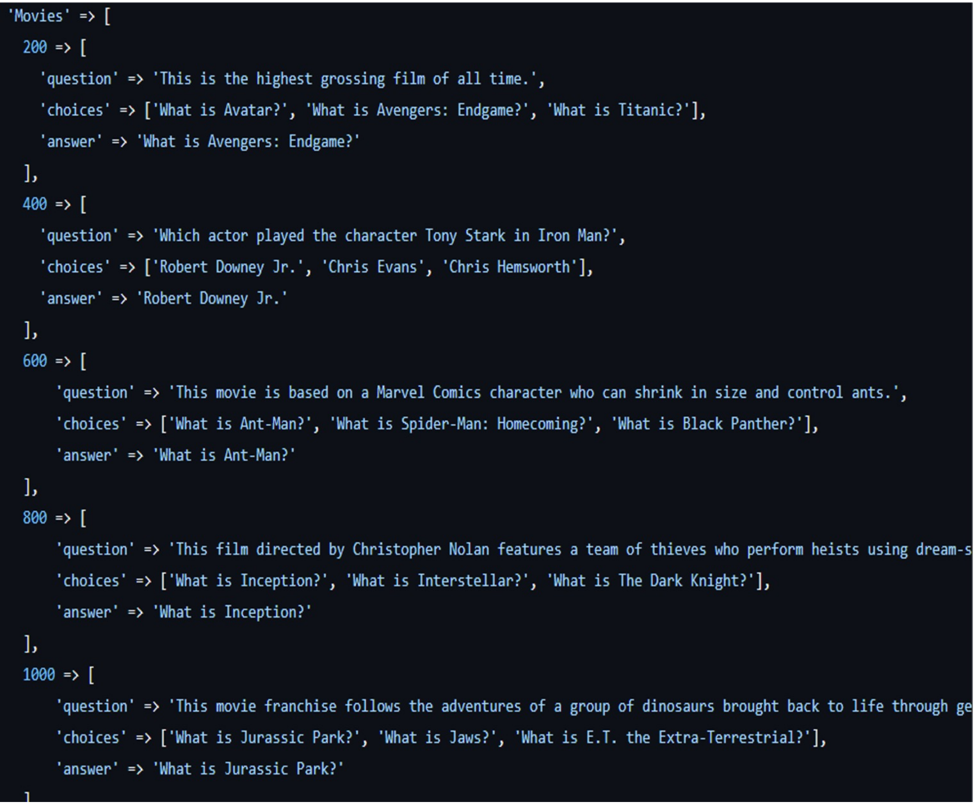
This is the highest grossing film of all time.

Code

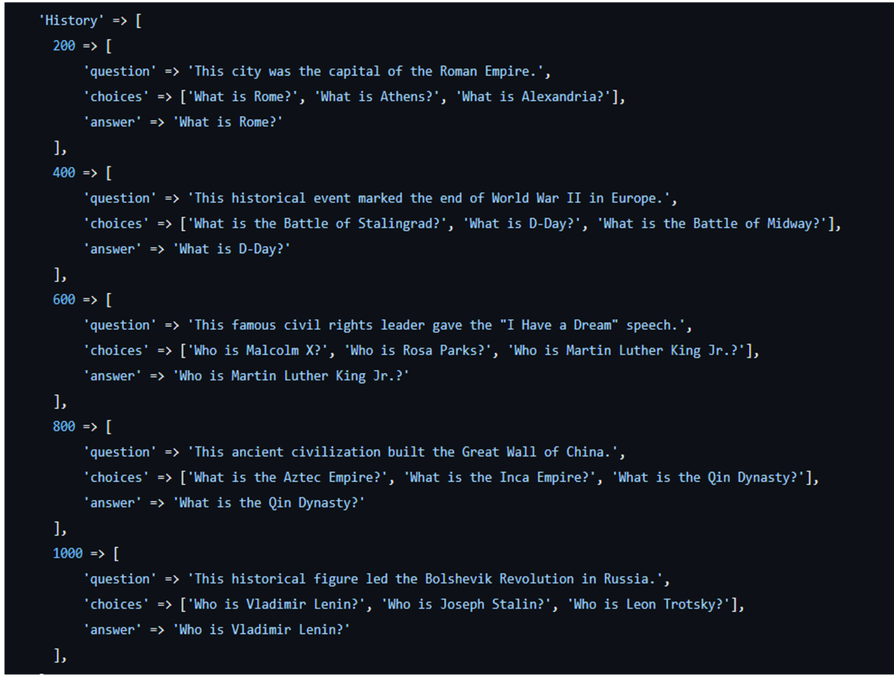


```php
<?php
// Check if the form is submitted
if ($_SERVER['REQUEST_METHOD'] === 'GET') {
    // Retrieve the submitted username
    $username = $_GET['name'];

    // Validate the username (you may need to replace this with your own validation logic)
    if (!empty($username)) {
        // If the username is provided, check if it exists in players.txt
        $file = file('players.txt'); // Read the lines of the file into an array

        foreach ($file as $line) {
            $playerInfo = explode(',', $line); // Split the line by comma to get player information
            $name = trim($playerInfo[0]); // Get the player name
            $score = trim($playerInfo[1]); // Get the player score

            if ($name === $username) {
                // If the player is found, store their information in session variables
                session_start();
                $_SESSION['username'] = $username;
                $_SESSION['score'] = $score;

                break; // Exit the loop since we found the player
            }
        }

        if (isset($_SESSION['username'])) {
            // If the player is found, redirect to index.php
```

Code

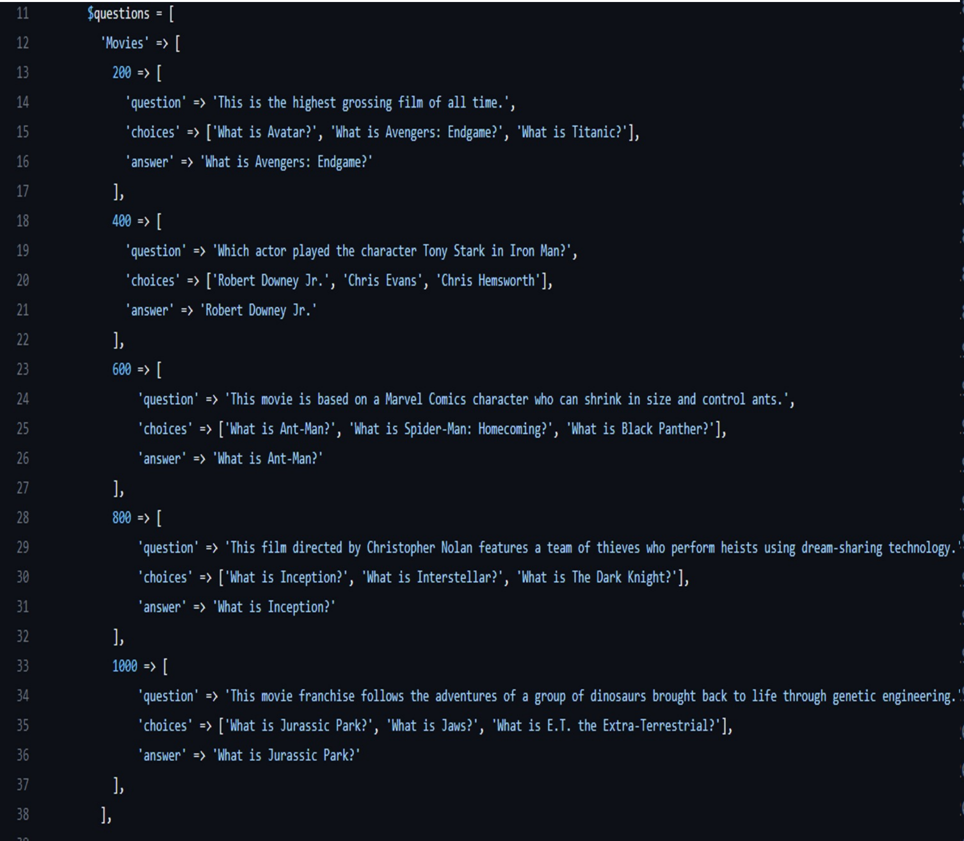


```
'Movies' => [
  200 => [
    'question' => 'This is the highest grossing film of all time.',
    'choices' => ['What is Avatar?', 'What is Avengers: Endgame?', 'What is Titanic?'],
    'answer' => 'What is Avengers: Endgame?'
  ],
  400 => [
    'question' => 'Which actor played the character Tony Stark in Iron Man?',
    'choices' => ['Robert Downey Jr.', 'Chris Evans', 'Chris Hemsworth'],
    'answer' => 'Robert Downey Jr.'
  ],
  600 => [
      'question' => 'This movie is based on a Marvel Comics character who can shrink in size and control ants.',
      'choices' => ['What is Ant-Man?', 'What is Spider-Man: Homecoming?', 'What is Black Panther?'],
      'answer' => 'What is Ant-Man?'
  ],
  800 => [
      'question' => 'This film directed by Christopher Nolan features a team of thieves who perform heists using dream-s
      'choices' => ['What is Inception?', 'What is Interstellar?', 'What is The Dark Knight?'],
      'answer' => 'What is Inception?'
  ],
  1000 => [
      'question' => 'This movie franchise follows the adventures of a group of dinosaurs brought back to life through ge
      'choices' => ['What is Jurassic Park?', 'What is Jaws?', 'What is E.T. the Extra-Terrestrial?'],
      'answer' => 'What is Jurassic Park?'
  ]
```

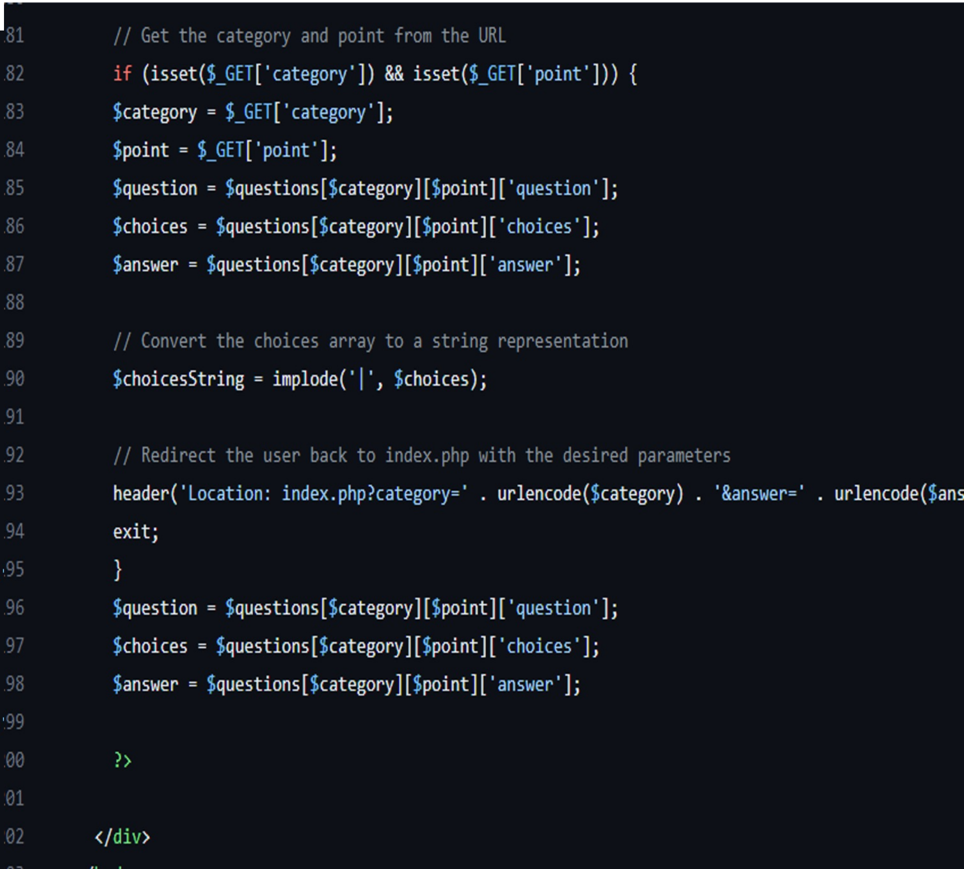


```
'History' => [
  200 => [
      'question' => 'This city was the capital of the Roman Empire.',
      'choices' => ['What is Rome?', 'What is Athens?', 'What is Alexandria?'],
      'answer' => 'What is Rome?'
  ],
  400 => [
      'question' => 'This historical event marked the end of World War II in Europe.',
      'choices' => ['What is the Battle of Stalingrad?', 'What is D-Day?', 'What is the Battle of Midway?'],
      'answer' => 'What is D-Day?'
  ],
  600 => [
      'question' => 'This famous civil rights leader gave the "I Have a Dream" speech.',
      'choices' => ['Who is Malcolm X?', 'Who is Rosa Parks?', 'Who is Martin Luther King Jr.?'],
      'answer' => 'Who is Martin Luther King Jr.?'
  ],
  800 => [
      'question' => 'This ancient civilization built the Great Wall of China.',
      'choices' => ['What is the Aztec Empire?', 'What is the Inca Empire?', 'What is the Qin Dynasty?'],
      'answer' => 'What is the Qin Dynasty?'
  ],
  1000 => [
      'question' => 'This historical figure led the Bolshevik Revolution in Russia.',
      'choices' => ['Who is Vladimir Lenin?', 'Who is Joseph Stalin?', 'Who is Leon Trotsky?'],
      'answer' => 'Who is Vladimir Lenin?'
  ],
```

question.php

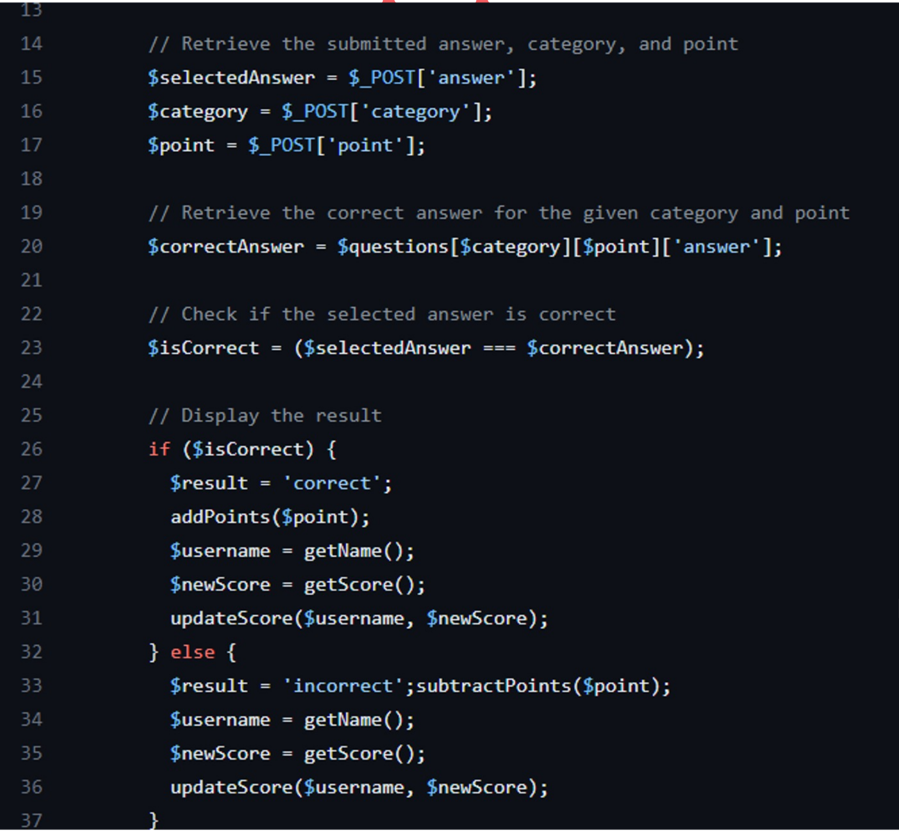


```
$questions = [
  'Movies' => [
    200 => [
      'question' => 'This is the highest grossing film of all time.',
      'choices' => ['What is Avatar?', 'What is Avengers: Endgame?', 'What is Titanic?'],
      'answer' => 'What is Avengers: Endgame?'
    ],
    400 => [
      'question' => 'Which actor played the character Tony Stark in Iron Man?',
      'choices' => ['Robert Downey Jr.', 'Chris Evans', 'Chris Hemsworth'],
      'answer' => 'Robert Downey Jr.'
    ],
    600 => [
        'question' => 'This movie is based on a Marvel Comics character who can shrink in size and control ants.',
        'choices' => ['What is Ant-Man?', 'What is Spider-Man: Homecoming?', 'What is Black Panther?'],
        'answer' => 'What is Ant-Man?'
    ],
    800 => [
        'question' => 'This film directed by Christopher Nolan features a team of thieves who perform heists using dream-sharing technology.'
        'choices' => ['What is Inception?', 'What is Interstellar?', 'What is The Dark Knight?'],
        'answer' => 'What is Inception?'
    ],
    1000 => [
        'question' => 'This movie franchise follows the adventures of a group of dinosaurs brought back to life through genetic engineering.'
        'choices' => ['What is Jurassic Park?', 'What is Jaws?', 'What is E.T. the Extra-Terrestrial?'],
        'answer' => 'What is Jurassic Park?'
    ],
  ],
```

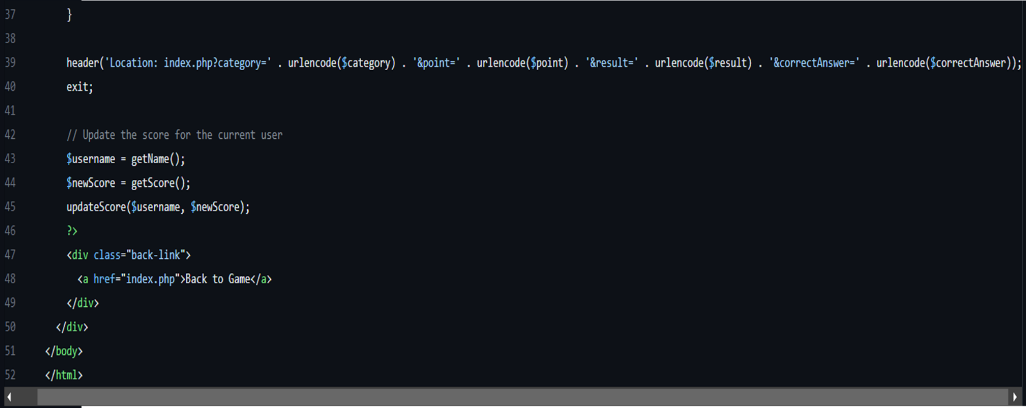


```
    // Get the category and point from the URL
    if (isset($_GET['category']) && isset($_GET['point'])) {
    $category = $_GET['category'];
    $point = $_GET['point'];
    $question = $questions[$category][$point]['question'];
    $choices = $questions[$category][$point]['choices'];
    $answer = $questions[$category][$point]['answer'];

    // Convert the choices array to a string representation
    $choicesString = implode('|', $choices);

    // Redirect the user back to index.php with the desired parameters
    header('Location: index.php?category=' . urlencode($category) . '&answer=' . urlencode($ans
    exit;
    }
    $question = $questions[$category][$point]['question'];
    $choices = $questions[$category][$point]['choices'];
    $answer = $questions[$category][$point]['answer'];


    ?>


  </div>
```

Answer.php

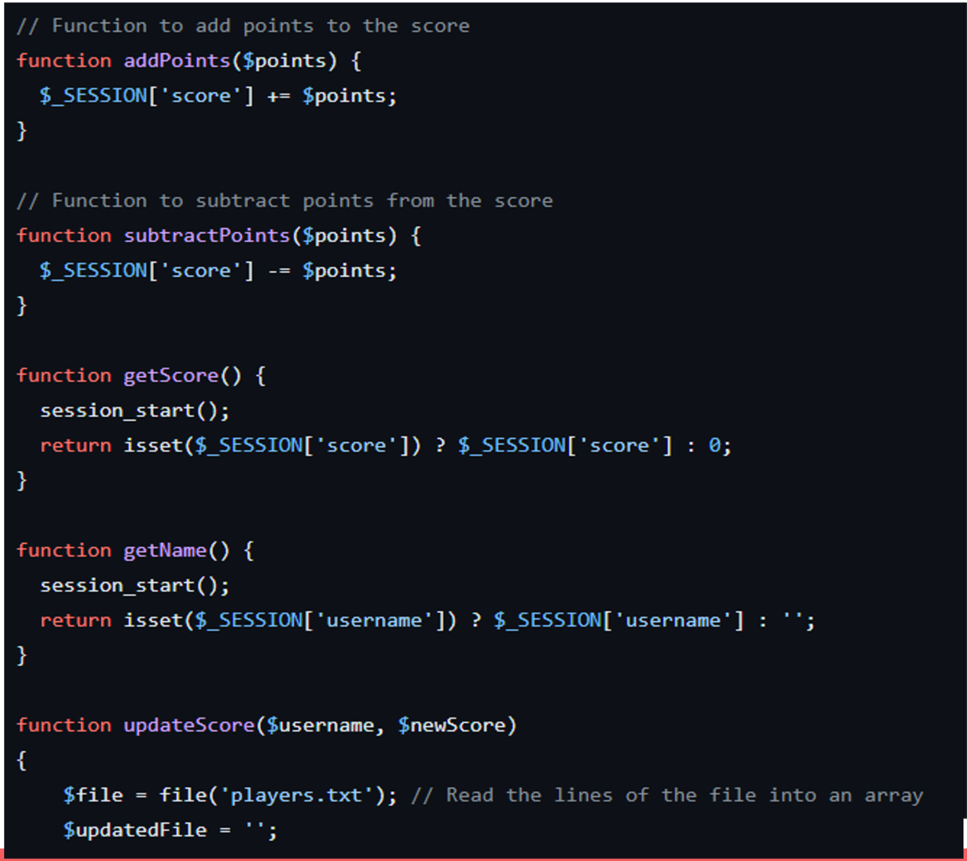


```php

    // Retrieve the submitted answer, category, and point
    $selectedAnswer = $_POST['answer'];
    $category = $_POST['category'];
    $point = $_POST['point'];

    // Retrieve the correct answer for the given category and point
    $correctAnswer = $questions[$category][$point]['answer'];

    // Check if the selected answer is correct
    $isCorrect = ($selectedAnswer === $correctAnswer);

    // Display the result
    if ($isCorrect) {
      $result = 'correct';
      addPoints($point);
      $username = getName();
      $newScore = getScore();
      updateScore($username, $newScore);
    } else {
      $result = 'incorrect';subtractPoints($point);
      $username = getName();
      $newScore = getScore();
      updateScore($username, $newScore);
    }
```

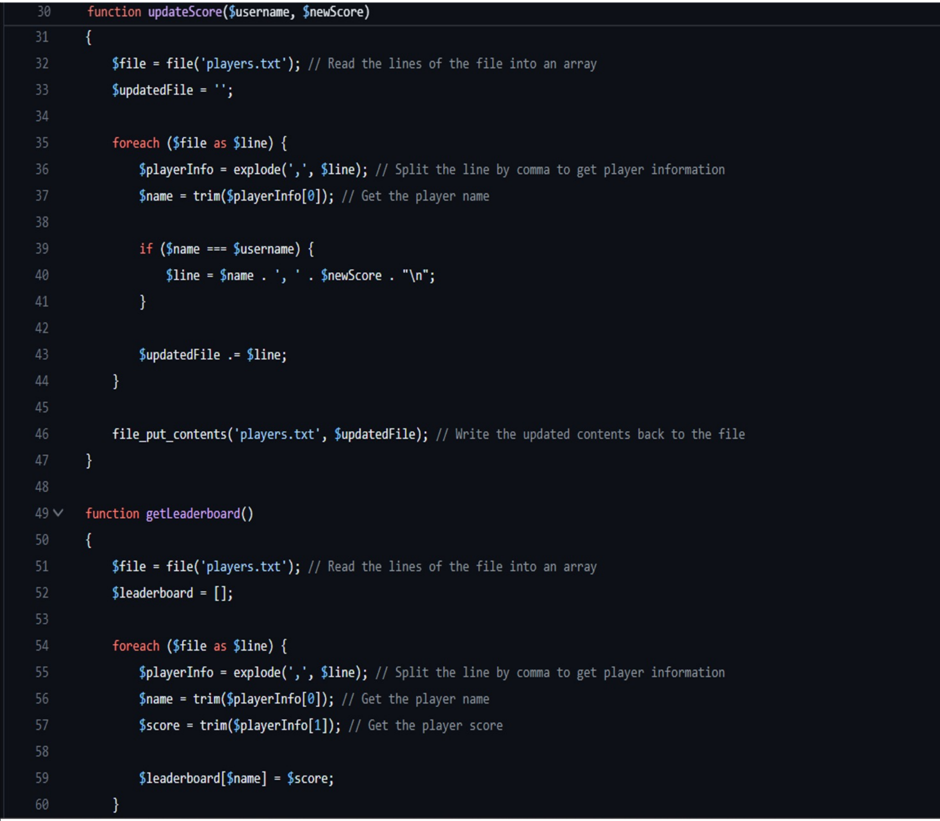


```php
    }

    header('Location: index.php?category=' . urlencode($category) . '&point=' . urlencode($point) . '&result=' . urlencode($result) . '&correctAnswer=' . urlencode($correctAnswer));
    exit;

    // Update the score for the current user
    $username = getName();
    $newScore = getScore();
    updateScore($username, $newScore);
    ?>
    <div class="back-link">
      <a href="index.php">Back to Game</a>
    </div>
  </div>
</body>
</html>
```

Score_keeper.php

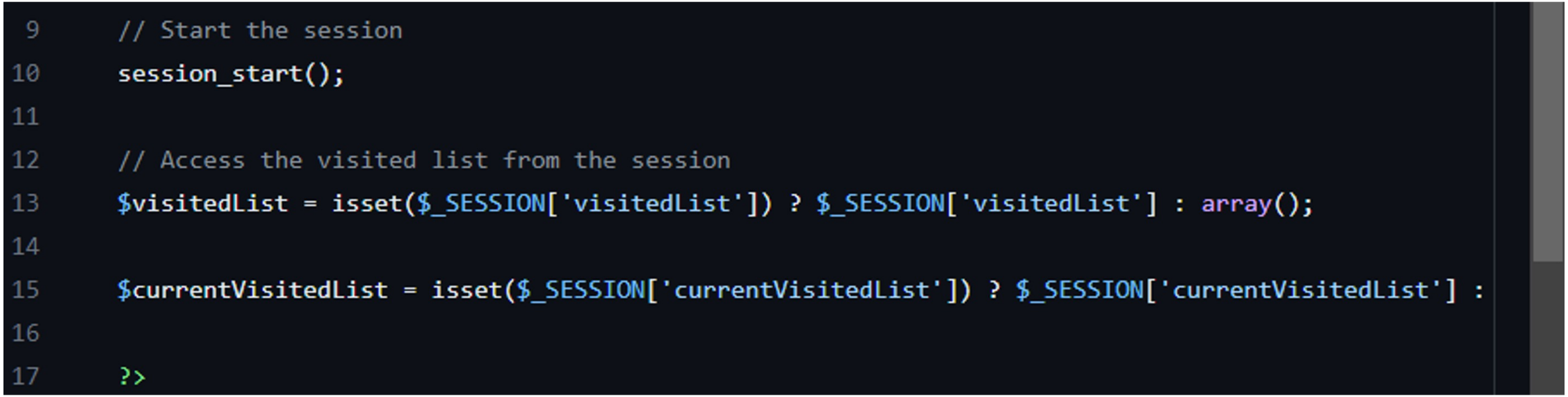


```php
// Function to add points to the score
function addPoints($points) {
  $_SESSION['score'] += $points;
}

// Function to subtract points from the score
function subtractPoints($points) {
  $_SESSION['score'] -= $points;
}

function getScore() {
  session_start();
  return isset($_SESSION['score']) ? $_SESSION['score'] : 0;
}

function getName() {
  session_start();
  return isset($_SESSION['username']) ? $_SESSION['username'] : '';
}

function updateScore($username, $newScore)
{
    $file = file('players.txt'); // Read the lines of the file into an array
    $updatedFile = '';
```



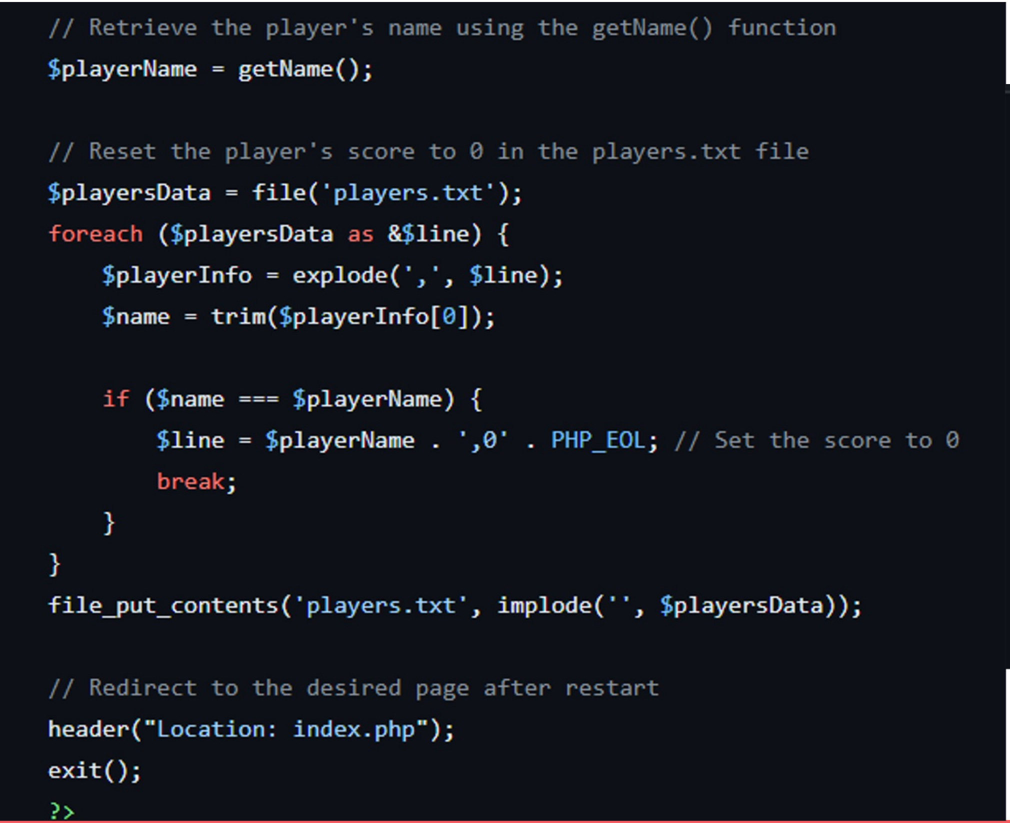
```php
function updateScore($username, $newScore)
{
    $file = file('players.txt'); // Read the lines of the file into an array
    $updatedFile = '';

    foreach ($file as $line) {
        $playerInfo = explode(',', $line); // Split the line by comma to get player information
        $name = trim($playerInfo[0]); // Get the player name

        if ($name === $username) {
            $line = $name . ', ' . $newScore . "\n";
        }

        $updatedFile .= $line;
    }

    file_put_contents('players.txt', $updatedFile); // Write the updated contents back to the file
}

function getLeaderboard()
{
    $file = file('players.txt'); // Read the lines of the file into an array
    $leaderboard = [];

    foreach ($file as $line) {
        $playerInfo = explode(',', $line); // Split the line by comma to get player information
        $name = trim($playerInfo[0]); // Get the player name
        $score = trim($playerInfo[1]); // Get the player score

        $leaderboard[$name] = $score;
    }
```

Visited List

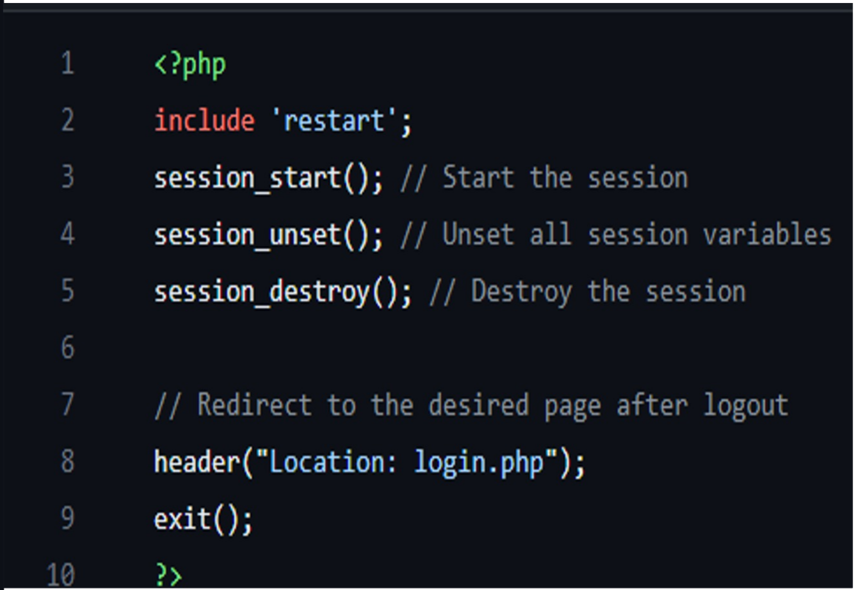


```php
    // Start the session
    session_start();

    // Access the visited list from the session
    $visitedList = isset($_SESSION['visitedList']) ? $_SESSION['visitedList'] : array();

    $currentVisitedList = isset($_SESSION['currentVisitedList']) ? $_SESSION['currentVisitedList'] :

    ?>
```

Restart and Logout Buttons



```php
// Retrieve the player's name using the getName() function
$playerName = getName();

// Reset the player's score to 0 in the players.txt file
$playersData = file('players.txt');
foreach ($playersData as &$line) {
    $playerInfo = explode(',', $line);
    $name = trim($playerInfo[0]);

    if ($name === $playerName) {
        $line = $playerName . ',0' . PHP_EOL; // Set the score to 0
        break;
    }
}
file_put_contents('players.txt', implode('', $playersData));

// Redirect to the desired page after restart
header("Location: index.php");
exit();
?>
```



```php
<?php
include 'restart';
session_start(); // Start the session
session_unset(); // Unset all session variables
session_destroy(); // Destroy the session

// Redirect to the desired page after logout
header("Location: login.php");
exit();
?>
```