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Compensation task

Problem: Write a program to demonstrate uses of cookies and session with following parameters Start a Session at time X and maintain the duration for the session. Show the active session time when the user closes the browser. In any active session user can perform any arithmetic operation string operations or can see youtube videos keep count of each activities.

Code :

Compensation.php

```
<?php
session_start();

if (!isset($_SESSION['start_time'])) {
    $_SESSION['start_time'] = time();
}

if (!isset($_SESSION['activities'])) {
    $_SESSION['activities'] = [
        'Arithmetic Operation' => 0,
        'String Operation' => 0,
        'View YouTube Video' => 0,
    ];
}

if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    $activity = $_POST['activity'];
    if (array_key_exists($activity, $_SESSION['activities'])) {
        $_SESSION['activities'][$activity]++;
    }
}

$current_time = time();
$start_time = $_SESSION['start_time'];
$session_duration = $current_time - $start_time;
?>

<!DOCTYPE html>
<html>
<head>
```

```
<title>Cookie and Session</title>
<style>
  body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    background-color: aqua;
    display: flex;
    align-items: center;
    justify-content: center;
    min-height: 100vh;
  }

  .container {
    max-width: 600px;
    padding: 20px;
    background-color: red;
    border: 1px solid #ccc;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
  }

  h1 {
    color: #333;
  }

  h2 {
    color: #666;
  }

  ul {
    list-style-type: none;
    padding: 0;
  }

  li {
    margin-bottom: 5px;
  }

  form {
    margin-top: 10px;
  }

  button {
    padding: 5px 10px;
    background-color: #007bff;
  }
</style>
```

```

        color: #fff;
        border: none;
        cursor: pointer;
    }

    a {
        color: #007bff;
        text-decoration: none;
    }
</style>
</head>
<body>
    <div class="container">
        <h1>Cookie and Session</h1>

        <h2>Active Session Time:</h2>
        <p><?php echo $session_duration; ?> seconds</p>

        <h2>User Activities:</h2>
        <ul>
            <?php foreach ($_SESSION['activities'] as $activity => $count): ?>
                <li><?php echo $activity . ": " . $count; ?></li>
            <?php endforeach; ?>
        </ul>

        <form method="POST">
            <h2>Perform Activity:</h2>
            <label for="activity">Choose an activity:</label>
            <select id="activity" name="activity">
                <option value="Arithmetic Operation">Arithmetic
Operation</option>
                <option value="String Operation">String Operation</option>
                <option value="View YouTube Video">View YouTube Video</option>
            </select>
            <button type="submit">Perform</button>
        </form>

        <a href="end_session.php">End Session</a>
    </div>
</body>
</html>

```

end_session.php

```
<?php
session_start();

if (isset($_SESSION['start_time'])) {
    $current_time = time();
    $start_time = $_SESSION['start_time'];
    $session_duration = $current_time - $start_time;

    session_destroy();
    $_SESSION = [];
} else {
    $session_duration = "Session has already ended.";
}
?>
```

```
<!DOCTYPE html>
<html>
<head>
    <title>Session Ended</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 0;
            padding: 0;
            background-color: aqua;
            display: flex;
            align-items: center;
            justify-content: center;
            min-height: 100vh;
        }

        .container {
            max-width: 600px;
            padding: 20px;
            background-color: red;
            border: 1px solid #ccc;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }

        h1 {
            color: #333;
        }

        h2 {
```

```
        color: #666;
    }

    p {
        color: #fff;
    }
</style>
</head>
<body>
    <div class="container">
        <h1>Session Ended</h1>

        <h2>Session Duration:</h2>
        <p><?php echo $session_duration; ?> seconds</p>
    </div>
</body>
</html>
```

Output:



