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CODE FOR MY PREMIER LEAGUE WEBSITE TASK 1

CLNTON MACHUK

# LEAGUE.HTML

Used to display my table for the league and the fixtures

<!DOCTYPE html>

<html lang="en">

<head>

    <!-- The <meta> tag sets the character encoding to UTF-8, ensuring that the webpage can display all characters correctly -->

    <meta charset="UTF-8">

    <!-- The <meta> tag makes the webpage responsive, scaling it properly on different devices and screen sizes -->

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <!-- Link to the external CSS stylesheet for styling the webpage -->

    <link rel="stylesheet" href="league.css">

    <!-- The title of the webpage, which appears in the browser tab -->

    <title>Premier League Table</title>

    <!-- Link to the same external CSS stylesheet (appears twice, likely a mistake) -->

    <link rel="stylesheet" href="league.css">

    <!-- Link to the external JavaScript file for adding interactivity and functionality to the webpage -->

    <script src="league.js"></script>

</head>

<body>

    <!-- Main heading of the webpage -->

    <h1>Premier League Table</h1>

    <!-- Navigation menu for the webpage -->

    <div class="menu">

        <ul>

            <!-- Link to the league table page -->

            <li><a href="league.html">League Table</a></li>

            <!-- Link to the top scorers page -->

            <li><a href="topscorers.html">Top Scorers</a></li>

        </ul>

    </div>

    <!-- Placeholder for the league table data, will be populated dynamically -->

    <div id="league-table"></div>

    <!-- Placeholder for the EPL fixture data, will be populated dynamically -->

    <div id="EPL-fixture"></div>

</body>

</html>

# LEAGUE.JS

MY Js get the data from league.json calculates the data using the various datapoints using the results in a fixtures to calculate the points, goals allowed ,games played, goals for, form and uses the points to do the ranking if the teams have tied points it uses goal difference to differentiate the teams.  
The js also gets the fixtures data and top scorer data and displays them in the various pages.

The js loads different functionalities depending on the page the user is in as explained in my video.

// Function used to fetch and validate data from League.json using AJAX

*function* fetchDataAndValidate(*callback*) {

    // Create a new XMLHttpRequest object

*var* xhr = new *XMLHttpRequest*();

    // Event handler to process the AJAX request

    xhr.onreadystatechange = *function*() {

        // Check if the request is complete

        if (xhr.readyState === *XMLHttpRequest*.DONE) {

            // Check if the request was successful (status code 200)

            if (xhr.status === 200) {

                // Parse the JSON response into an object

*var* data = JSON.parse(xhr.responseText);

                // Call the validateData function to validate the fetched data

                validateData(data);

                // Call the callback function and pass the fetched data to it

                callback(data);

            } else {

                // Log an error message if the request fails

                console.error('Error fetching data:', xhr.status);

            }

        }

    };

    // Open a GET request to fetch League.json asynchronously

    xhr.open('GET', 'League.json', true);

    // Send the AJAX request

    xhr.send();

}

// Function to generate the league table from the fixtures data

*function* generateLeagueTable(*fixtures*) {

    // Object to store team statistics

*var* teams = {};

    // Calculate team statistics from fixtures data

*fixtures*.forEach(*function*(*fixture*) {

        // Extract fixture details

*var* homeTeam = *fixture*.homeTeam;

*var* awayTeam = *fixture*.awayTeam;

*var* homeScore = parseInt(*fixture*.score.split(' - ')[0]); // Convert home score to integer

*var* awayScore = parseInt(*fixture*.score.split(' - ')[1]); // Convert away score to integer

        // Update home team statistics

        if (!teams[homeTeam]) {

            // Initialize team statistics if not already present

            teams[homeTeam] = { goalsFor: 0, goalsAgainst: 0, wins: 0, draws: 0, losses: 0, points: 0, form: [] };

        }

        // Update goals scored and conceded for home team

        teams[homeTeam].goalsFor += homeScore;

        teams[homeTeam].goalsAgainst += awayScore;

        // Update wins, draws, losses, and points for home team based on match result

        if (homeScore > awayScore) {

            teams[homeTeam].wins += 1;

            teams[homeTeam].points += 3;

            teams[homeTeam].form.push('W'); // Add 'W' for win to form array

        } else if (homeScore < awayScore) {

            teams[homeTeam].losses += 1;

            teams[homeTeam].form.push('L'); // Add 'L' for loss to form array

        } else {

            teams[homeTeam].draws += 1;

            teams[homeTeam].points += 1;

            teams[homeTeam].form.push('D'); // Add 'D' for draw to form array

        }

        // Update away team statistics (similar logic as above)

        if (!teams[awayTeam]) {

            teams[awayTeam] = { goalsFor: 0, goalsAgainst: 0, wins: 0, draws: 0, losses: 0, points: 0, form: [] };

        }

        teams[awayTeam].goalsFor += awayScore;

        teams[awayTeam].goalsAgainst += homeScore;

        if (awayScore > homeScore) {

            teams[awayTeam].wins += 1;

            teams[awayTeam].points += 3;

            teams[awayTeam].form.push('W'); // Add 'W' for win to form array

        } else if (awayScore < homeScore) {

            teams[awayTeam].losses += 1;

            teams[awayTeam].form.push('L'); // Add 'L' for loss to form array

        } else {

            teams[awayTeam].draws += 1;

            teams[awayTeam].points += 1;

            teams[awayTeam].form.push('D'); // Add 'D' for draw to form array

        }

        // Limit form array to last 5 matches

        if (teams[homeTeam].form.length > 5) {

            teams[homeTeam].form.shift(); // Remove oldest result if more than 5 matches

        }

        if (teams[awayTeam].form.length > 5) {

            teams[awayTeam].form.shift(); // Remove oldest result if more than 5 matches

        }

    });

    // Convert teams object to array for sorting

*var* teamsArray = *Object*.keys(teams).map(*function*(*teamName*) {

        return { name: *teamName*, info: teams[*teamName*] };

    });

    // Sort teams array based on league table rules

    teamsArray.sort(*function*(*a*, *b*) {

        // Sort by points

        if (*a*.info.points !== *b*.info.points) {

            return *b*.info.points - *a*.info.points;

        }

        // Sort by goal difference if points are equal

        if (*a*.info.goalsFor - *a*.info.goalsAgainst !== *b*.info.goalsFor - *b*.info.goalsAgainst) {

            return (*b*.info.goalsFor - *b*.info.goalsAgainst) - (*a*.info.goalsFor - *a*.info.goalsAgainst);

        }

        // Sort by goals scored if goal difference is equal

        if (*a*.info.goalsFor !== *b*.info.goalsFor) {

            return *b*.info.goalsFor - *a*.info.goalsFor;

        }

        // Sort alphabetically by team name if all else is equal

        return *a*.name.localeCompare(*b*.name);

    });

    // Generate HTML markup for the league table

*var* tableHTML = '<table>';

    tableHTML += '<thead><tr><th>Position</th><th>Team Name</th><th>Played</th><th>W</th><th>D</th><th>L</th><th>GF</th><th>GA</th><th>GD</th><th>Points</th><th>Form</th></tr></thead>'; // Create table header row

    tableHTML += '<tbody>'; // Start table body

    teamsArray.forEach(*function*(*team*, *index*) {

        // Calculate team position

*var* position = *index* + 1;

        tableHTML += '<tr>'; // Start new table row

        // Add position, team name, and other statistics to table

        tableHTML += '<td>' + position + '</td>';

        tableHTML += '<td>' + *team*.name + '</td>';

        tableHTML += '<td>' + (*team*.info.wins + *team*.info.draws + *team*.info.losses) + '</td>'; // Add games played

        tableHTML += '<td>' + *team*.info.wins + '</td>'; // Add wins

        tableHTML += '<td>' + *team*.info.draws + '</td>'; // Add draws

        tableHTML += '<td>' + *team*.info.losses + '</td>'; // Add losses

        tableHTML += '<td>' + *team*.info.goalsFor + '</td>'; // Add goals scored

        tableHTML += '<td>' + team.info.goalsAgainst + '</td>'; // Add goals conceded

        tableHTML += '<td>' + (team.info.goalsFor - team.info.goalsAgainst) + '</td>'; // Add goal difference

        tableHTML += '<td>' + team.info.points + '</td>'; // Add points

        // Add form column with color-coded results

        tableHTML += '<td class="form-circles">';

        team.info.form.forEach(*function*(*result*) {

            if (result === 'W') {

                tableHTML += '<span style="color:green">&#9679;</span>'; // Green circle for win

            } else if (result === 'L') {

                tableHTML += '<span style="color:red">&#9679;</span>'; // Red circle for loss

            } else {

                tableHTML += '<span>&#9679;</span>'; // Default circle for draw

        }

        });

        tableHTML += '</td>'; // Close form column

        tableHTML += '</tr>'; // Close table row

    });

    tableHTML += '</tbody>'; // Close table body

    tableHTML +='</table>'; // Close table

    // Update the content of the league table div with the generated table HTML

*var* leagueTableDiv = document.getElementById('league-table');

    leagueTableDiv.innerHTML = tableHTML;

}

// Function to validate data against a JSON schema

*function* validateData(*data*) {

*var* xhr = new XMLHttpRequest();

    xhr.onreadystatechange = *function*() {

        if (xhr.readyState === XMLHttpRequest.DONE) {

            if (xhr.status === 200) {

*var* schema = JSON.parse(xhr.responseText);

*var* ajv = new Ajv();

*var* validate = ajv.compile(schema);

*var* valid = validate(data);

                if (!valid) {

                    console.error('Data validation error:', validate.errors);

                }

            } else {

                console.error('Error loading schema:', xhr.status);

            }

        }

    };

    xhr.open('GET', 'Leagueschema.json', true);

    xhr.send();

}

*function* populateTopScorers(*data*) {

    // Get a reference to the div element where the Top Scorers table will be displayed

*var* topScorersDiv = document.getElementById('top-scorers');

    // Extract the top scorers data from the provided 'data' object

*var* topScorers = data.premierLeagueTopScorers;

    // Sort the top scorers array based on the goals scored in descending order

    topScorers.sort(*function*(*a*, *b*) {

        return b.goalsScored - a.goalsScored; // Sort in descending order of goals scored

    });

    // Generate the HTML markup for the Top Scorers table

*var* tableHTML = '<table>';

    tableHTML += '<tr><th>Player Name</th><th>Team</th><th>Goals Scored</th></tr>'; // Create the table header row

    // Loop through each top scorer and add a row to the table for each one

    topScorers.forEach(*function*(*scorer*) {

        tableHTML += '<tr>'; // Starts a new table row

        tableHTML += '<td>' + scorer.playerName + '</td>'; // Add the player's name to the table

        tableHTML += '<td>' + scorer.team + '</td>'; // Add the team name to the table

        tableHTML += '<td>' + scorer.goalsScored + '</td>'; // Add the number of goals scored by the player to the table

        tableHTML += '</tr>'; // Close the table row

    });

    tableHTML += '</table>'; // Close the table

    // Update the content of the top scorers div with the generated table HTML

    topScorersDiv.innerHTML = tableHTML;

}

// This function is used to populate the football scores and fixtures table

*function* populateFixturesTable(*fixtures*) {

    // Get a reference to the div element where the Premier League fixtures table will be displayed

*var* eplFixture = document.getElementById('EPL-fixture');

    // Initialize the HTML markup for the table

*var* tableHTML = '<table>';

    tableHTML += '<thead><tr><th>Date</th><th>Home Team</th><th>Score</th><th>Away Team</th></tr></thead>'; // Create the table header row

    tableHTML += '<tbody>'; // Start the table body

    // Loop through each fixture and add a row to the table for each one

    fixtures.forEach(*function*(*fixture*) {

        tableHTML += '<tr>'; // Start a new table row

        tableHTML += '<td>' + fixture.date + '</td>'; // Add the date of the fixture to the table

        tableHTML += '<td>' + fixture.homeTeam + '</td>'; // Add the home team to the table

        tableHTML += '<td>' + fixture.score + '</td>'; // Add the score of the fixture to the table

        tableHTML += '<td>' + fixture.awayTeam + '</td>'; // Add the away team to the table

        tableHTML += '</tr>'; // Close the table row

    });

    tableHTML += '</tbody>'; // Close the table body

    tableHTML += '</table>'; // Close the table

    // Update the content of the div with the generated table HTML

    eplFixture.innerHTML = tableHTML;

}

// Event listener for the DOMContentLoaded event

document.addEventListener('DOMContentLoaded', *function* () {

    // Function to be executed when data fetching and validation are complete

*function* onDataFetchComplete(*data*) {

        // Check if the current page URL contains 'league.htm'

        if (window.location.pathname.includes('league.htm')) {

            // If the URL contains 'league.htm', load the league table and fixtures table

            generateLeagueTable(data.footballScoresFixtures);

            populateFixturesTable(data.footballScoresFixtures);

        } else {

            // If the URL does not contain 'league.htm', load the top scorers table

            populateTopScorers(data);

        }

    }

    // Fetch and validate data from League.json

    fetchDataAndValidate(onDataFetchComplete);

});

# LAGUESCHEMA.JSON

This is my schema that is used to validate the data before passing it to league.js for processing.

{

  // Specifies the Reference JSON Schema version being used

*"$schema"*: "http://json-schema.org/draft-07/schema#",

  // Specifies that the root element is an object

*"type"*: "object",

  // Defines the properties of the root object

*"properties"*: {

      // An array containing information about football scores and fixtures

*"footballScoresFixtures"*: {

*"type"*: "array",

*"items"*: {

*"type"*: "object",

              // Properties for each fixture

*"properties"*: {

*"homeTeam"*: { *"type"*: "string" }, // Name of the home team

*"awayTeam"*: { *"type"*: "string" }, // Name of the away team

*"date"*: { *"type"*: "string", *"format"*: "date" }, // Date of the fixture

*"score"*: { *"type"*: "string" } // Score of the fixture

              },

              // Required properties for each fixture

*"required"*: ["homeTeam", "awayTeam", "date", "score"]

          }

      },

      // An array containing information about the top scorers in the Premier League

*"premierLeagueTopScorers"*: {

*"type"*: "array",

*"items"*: {

*"type"*: "object",

              // Properties for each top scorer

*"properties"*: {

*"playerName"*: { *"type"*: "string" }, // Name of the player

*"team"*: { *"type"*: "string" }, // Name of the player's team

*"goalsScored"*: { *"type"*: "integer" } // Number of goals scored by the player

              },

              // Required properties for each top scorer

*"required"*: ["playerName", "team", "goalsScored"]

          }

      }

  },

  // Required properties for the root object

*"required"*: ["footballScoresFixtures", "premierLeagueTable", "premierLeagueTopScorers"]

}

# TOPSCORER.HTML

This is my top scorer page that is used to display top scorers.

<!DOCTYPE html>

<html lang="en">

<head>

    <!-- Specify the character encoding of the document -->

    <meta charset="UTF-8">

    <!-- Set the viewport width to the device width and initial scale to 1.0 -->

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <!-- Set the title of the document -->

    <title>Premier League Top Scorers</title>

    <!-- Include the JavaScript file for handling league data -->

    <script src="league.js"></script>

    <!-- Include the CSS file for styling -->

    <link rel="stylesheet" href="league.css">

</head>

<body>

    <!-- Heading for the page -->

    <h1>Premier League Top Scorers</h1>

    <!-- Navigation menu -->

    <div class="menu">

        <ul>

            <!-- Menu item for League Table -->

            <li><a href="league.html">League Table</a></li>

            <!-- Menu item for Top Scorers (current page) -->

            <li><a href="topscorers.html">Top Scorers</a></li>

        </ul>

    </div>

    <!-- Container for displaying top scorers -->

    <div id="top-scorers"></div>

</body>

</html>

# LEAGUE.JSON

This is my league.json it stores all the data that I use to render my pages.

{

*"footballScoresFixtures"*: [

      {

*"homeTeam"*: "Liverpool",

*"awayTeam"*: "Newcastle",

*"date"*: "1/1/2024",

*"score"*: "4 - 2"

    },

    {

*"homeTeam"*: "West Ham",

*"awayTeam"*: "Brighton",

*"date"*: "2/1/2024",

*"score"*: "0 - 0"

    },

    {

*"homeTeam"*: "Burnley",

*"awayTeam"*: "Luton",

*"date"*: "12/1/2024",

*"score"*: "1 - 1"

    },

    {

*"homeTeam"*: "Chelsea",

*"awayTeam"*: "Fulham",

*"date"*: "13/01/2024",

*"score"*: "1 - 0"

    },

    {

*"homeTeam"*: "Newcastle",

*"awayTeam"*: "Man City",

*"date"*: "13/01/2024",

*"score"*: "2 - 3"

    },

    {

*"homeTeam"*: "Everton",

*"awayTeam"*: "Aston Villa",

*"date"*: "14/01/2024",

*"score"*: "0 - 0"

    },

    {

*"homeTeam"*: "Man United",

*"awayTeam"*: "Tottenham",

*"date"*: "14/01/2024",

*"score"*: "2 - 2"

    },

    {

*"homeTeam"*: "Arsenal",

*"awayTeam"*: "Crystal Palace",

*"date"*: "20/01/2024",

*"score"*: "5 - 0"

    },

    {

*"homeTeam"*: "Brentford",

*"awayTeam"*: "Nott'm Forest",

*"date"*: "20/01/2024",

*"score"*: "3 - 2"

    },

    {

*"homeTeam"*: "Sheffield United",

*"awayTeam"*: "West Ham",

*"date"*: "21/01/2024",

*"score"*: "2 - 2"

    },

    {

*"homeTeam"*: "Bournemouth",

*"awayTeam"*: "Liverpool",

*"date"*: "21/01/2024",

*"score"*: "0 - 4"

    },

    {

*"homeTeam"*: "Brighton",

*"awayTeam"*: "Wolves",

*"date"*: "22/01/2024",

*"score"*: "0 - 0"

    },

    {

*"homeTeam"*: "Nott'm Forest",

*"awayTeam"*: "Arsenal",

*"date"*: "30/01/2024",

*"score"*: "1 - 2"

    },

    {

*"homeTeam"*: "Fulham",

*"awayTeam"*: "Everton",

*"date"*: "30/01/2024",

*"score"*: "0 - 0"

    },

    {

*"homeTeam"*: "Luton",

*"awayTeam"*: "Brighton",

*"date"*: "30/01/2024",

*"score"*: "4 - 0"

    },

    {

*"homeTeam"*: "Crystal Palace",

*"awayTeam"*: "Sheffield United",

*"date"*: "30/01/2024",

*"score"*: "3 - 2"

    },

    {

*"homeTeam"*: "Aston Villa",

*"awayTeam"*: "Newcastle",

*"date"*: "30/01/2024",

*"score"*: "1 - 3"

    },

    {

*"homeTeam"*: "Man City",

*"awayTeam"*: "Burnley",

*"date"*: "31/01/2024",

*"score"*: "3 - 1"

    },

    {

*"homeTeam"*: "Tottenham",

*"awayTeam"*: "Brentford",

*"date"*: "31/01/2024",

*"score"*: "3 - 2"

    },

    {

*"homeTeam"*: "Liverpool",

*"awayTeam"*: "Chelsea",

*"date"*: "31/01/2024",

*"score"*: "4 - 1"

    },

    {

*"homeTeam"*: "West Ham",

*"awayTeam"*: "Bournemouth",

*"date"*: "1/2/2024",

*"score"*: "1 - 1"

    },

    {

*"homeTeam"*: "Wolves",

*"awayTeam"*: "Man United",

*"date"*: "1/2/2024",

*"score"*: "3 - 4"

    },

    {

*"homeTeam"*: "Everton",

*"awayTeam"*: "Tottenham",

*"date"*: "3/2/2024",

*"score"*: "2 - 2"

    },

    {

*"homeTeam"*: "Brighton",

*"awayTeam"*: "Crystal Palace",

*"date"*: "3/2/2024",

*"score"*: "4 - 1"

    },

    {

*"homeTeam"*: "Burnley",

*"awayTeam"*: "Fulham",

*"date"*: "3/2/2024",

*"score"*: "2 - 2"

    },

    {

*"homeTeam"*: "Newcastle",

*"awayTeam"*: "Luton",

*"date"*: "3/2/2024",

*"score"*: "4 - 4"

    },

    {

*"homeTeam"*: "Sheffield United",

*"awayTeam"*: "Aston Villa",

*"date"*: "3/2/2024",

*"score"*: "0 - 5"

    },

    {

*"homeTeam"*: "Bournemouth",

*"awayTeam"*: "Nott'm Forest",

*"date"*: "4/2/2024",

*"score"*: "1 - 1"

    },

    {

*"homeTeam"*: "Chelsea",

*"awayTeam"*: "Wolves",

*"date"*: "4/2/2024",

*"score"*: "2 - 4"

    },

    {

*"homeTeam"*: "Man United",

*"awayTeam"*: "West Ham",

*"date"*: "4/2/2024",

*"score"*: "3 - 0"

    },

    {

*"homeTeam"*: "Arsenal",

*"awayTeam"*: "Liverpool",

*"date"*: "4/2/2024",

*"score"*: "3 - 1"

    },

    {

*"homeTeam"*: "Brentford",

*"awayTeam"*: "Man City",

*"date"*: "5/2/2024",

*"score"*: "1 - 3"

    },

    {

*"homeTeam"*: "Man City",

*"awayTeam"*: "Everton",

*"date"*: "10/2/2024",

*"score"*: "2 - 0"

    },

    {

*"homeTeam"*: "Fulham",

*"awayTeam"*: "Bournemouth",

*"date"*: "10/2/2024",

*"score"*: "3 - 1"

    },

    {

*"homeTeam"*: "Liverpool",

*"awayTeam"*: "Burnley",

*"date"*: "10/2/2024",

*"score"*: "3 - 1"

    },

    {

*"homeTeam"*: "Luton",

*"awayTeam"*: "Sheffield United",

*"date"*: "10/2/2024",

*"score"*: "1 - 3"

    },

    {

*"homeTeam"*: "Tottenham",

*"awayTeam"*: "Brighton",

*"date"*: "10/2/2024",

*"score"*: "2 - 1"

    },

    {

*"homeTeam"*: "Wolves",

*"awayTeam"*: "Brentford",

*"date"*: "10/2/2024",

*"score"*: "0 - 2"

    },

    {

*"homeTeam"*: "Nott'm Forest",

*"awayTeam"*: "Newcastle",

*"date"*: "10/2/2024",

*"score"*: "2 - 3"

    },

    {

*"homeTeam"*: "West Ham",

*"awayTeam"*: "Arsenal",

*"date"*: "11/2/2024",

*"score"*: "0 - 6"

    },

    {

*"homeTeam"*: "Aston Villa",

*"awayTeam"*: "Man United",

*"date"*: "11/2/2024",

*"score"*: "1 - 2"

    },

    {

*"homeTeam"*: "Crystal Palace",

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