

## Abstract

Assigned with the task, I am tasked with the responsibility of creating a code that retrieves and presents data in a data table from the specified endpoint: <https://timesofindia.indiatimes.com/rssfeeds/-2128838597.cms?feedtype=json>. Furthermore, I am mandated to incorporate additional functionalities, specifically enabling searching, sorting, and pagination for the displayed data. The coding languages to be utilized for this project include PHP, JS, HTML, and CSS.

## Step for installing xampp file in windows:

### 1. Download XAMPP:

By Visiting the official XAMPP website at [https://www.apachefriends.org/index.html](https://www.apachefriends.org/index.html) and download the latest version of XAMPP for Windows.

### 2. Run the Installer.

### 3. User Account Control (UAC) Warning:

If you see a User Account Control (UAC) warning, click "Yes" to proceed with the installation.

### 4. Select all Components:

### 5. Select Installation Folder:

Choose the destination folder where you want to install XAMPP. The default is usually in the 'C:\' drive ('C:\xampp'), but you can choose a different location if needed.

### 6. Install from vs code extensions Open PHP/HTML/JS In Browser and Live server.

## About the project

### Created the *data.php* file :

Here this code reads a JSON file, decodes its content into a PHP associative array, specifies the response header for JSON, and then echoes a specific part of the decoded data as a JSON string.

A screenshot of a code editor with a dark theme. The editor shows a file named 'data.php' with the following PHP code:

```
1 <?php
2 // Read JSON file
3 $jsonFile = file_get_contents('mumbai_news.json'); // Replace with the correct path to your JSON file
4 $data = json_decode($jsonFile, true);
5
6 // Return JSON data
7 header('Content-Type: application/json');
8 echo json_encode($data['channel']['item']);
9
10
```

The code is written in a monospaced font with syntax highlighting. The editor's interface includes a tab bar at the top with several open files: 'data.php', 'script.js', 'index.html', 'mumbai\_news.json', and 'styles.css'. The 'data.php' tab is currently active.

## Created the index.html file:

This HTML document sets up a webpage for displaying Mumbai news using a DataTable. It includes necessary metadata, links to external CSS and JavaScript files (jQuery and DataTables), and defines a table structure with specific column headers. The custom styling is applied through an external CSS file, and dynamic behavior is expected to be handled by a custom JavaScript file. The goal is to create a visually appealing and interactive news table with enhanced features provided by DataTables.

```
data.php JS script.js index.html x mumbai_news.json # styles.css
Task > index.html > html > body > table#newsTable > thead > th
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Mumbai News</title>
7
8   <link rel="stylesheet" type="text/css" href="https://cdn.datatables.net/1.10.24/css/jquery.dataTables.css">
9
10
11
12   <link rel="stylesheet" type="text/css" href="styles.css">
13 </head>
14 <body>
15
16   <table id="newsTable">
17     <thead>
18
19       <!-- table headers here -->
20       <th>Serial No.</th>
21       <th>Title</th>
22       <th>Description</th>
23       <th>Link</th>
24       <th>Publication Date</th>
25       <th>Author</th>
26     </thead>
27     <tbody></tbody>
28   </table>
29
30   <!-- jQuery and DataTables JS -->
31   <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
32   <script src="https://cdn.datatables.net/1.10.24/js/jquery.dataTables.js"></script>
33
34
35   <script src="script.js"></script>
36 </body>
37 </html>
```

## Created the script.js file :

Here this code uses jQuery to make an AJAX request to 'data.php', fetches JSON data, modifies it, and then initializes a DataTable with specific configurations. The DataTable is populated with the modified data, and additional features such as pagination and a dropdown menu for selecting the number of entries per page are implemented. The code also includes custom rendering functions for specific columns to enhance the visual presentation of the data.

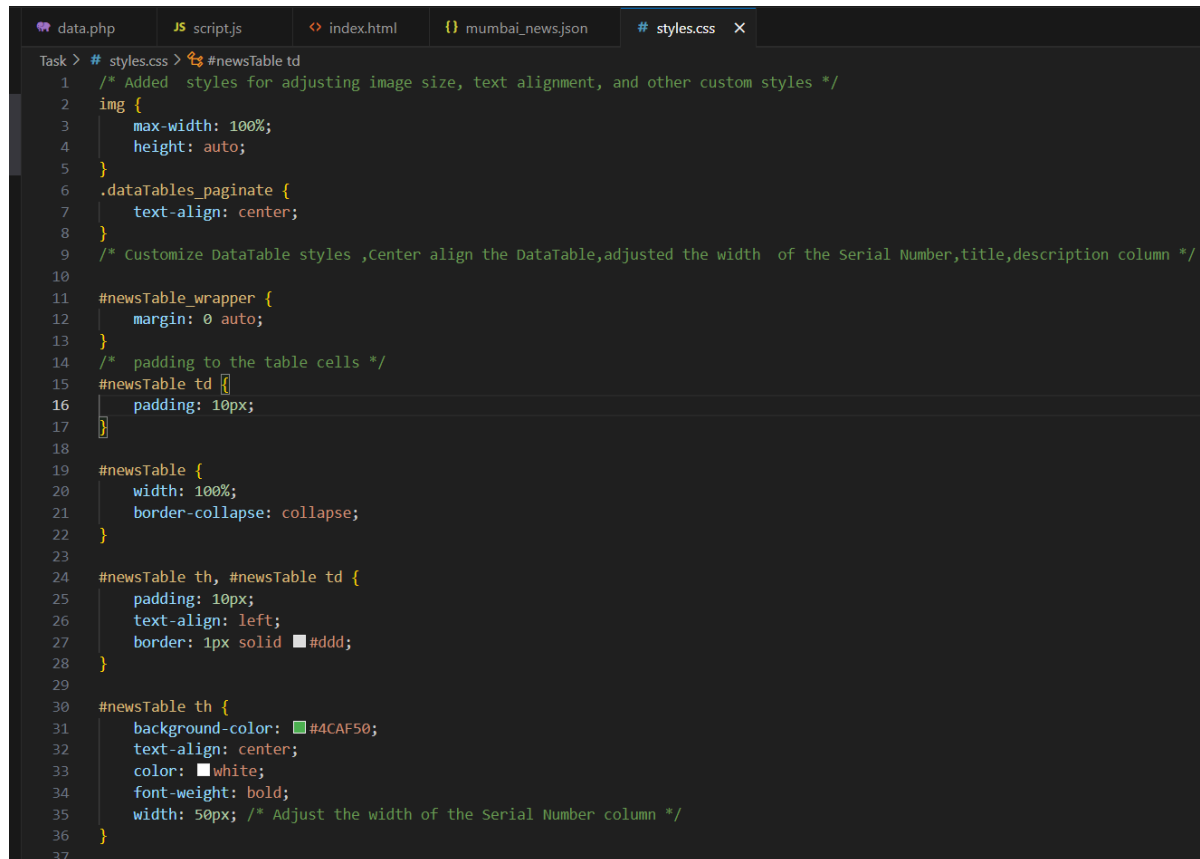
```
scripts > ...
$(document).ready(function() {
  success: function(data) {

    data.forEach(function(entry, index) {
      entry.serialNo = index + 1;
    });

    // Populate DataTable with JSON data and enable searching and sorting
    $('#newsTable').DataTable({
      data: data,
      columns: [
        { data: 'serialNo' },
        { data: 'title', render: function(data) {
          return '<span style="font-size: 16px; font-weight: bold;">' + data + '</span>';
        } },
        { data: 'description' },
        { data: 'link', render: function(data) {
          return '<a href="' + data + '" target="_blank" style="width: 100%; display: inline-block;">' + data + '</a>';
        } },
        { data: 'pubDate' },
        { data: 'dc:creator.#text', render: function(data) {
          return '<span style="font-weight: bold;">' + (data ? data : 'N/A') + '</span>';
        } }
      ],
      // Enable searching and sorting
      searching: true,
      ordering: true,
      // Pagination
      paging: data.length > 5,
      pageLength: data.length > 5 ? 5 : data.length,
      lengthMenu: [5, 10, 20] // Entries dropdown
    });
  }
});
});
```

## Created the styles.css:

The CSS code focuses on styling aspects, such as adjusting column widths, text alignment, and other visual aspects, but it doesn't handle the logic for searching and sorting, which is typically done in the JavaScript code using DataTables options.



```
Task > # styles.css > #newsTable td
1  /* Added styles for adjusting image size, text alignment, and other custom styles */
2  img {
3      max-width: 100%;
4      height: auto;
5  }
6  .dataTables_paginate {
7      text-align: center;
8  }
9  /* Customize DataTable styles ,Center align the DataTable,adjusted the width  of the Serial Number,title,description column */
10
11  #newsTable_wrapper {
12      margin: 0 auto;
13  }
14  /* padding to the table cells */
15  #newsTable td {
16      padding: 10px;
17  }
18
19  #newsTable {
20      width: 100%;
21      border-collapse: collapse;
22  }
23
24  #newsTable th, #newsTable td {
25      padding: 10px;
26      text-align: left;
27      border: 1px solid #ddd;
28  }
29
30  #newsTable th {
31      background-color: #4CAF50;
32      text-align: center;
33      color: white;
34      font-weight: bold;
35      width: 50px; /* Adjust the width of the Serial Number column */
36  }
37
```

OUTPUT:






← → ↺

localhost/task/index.html

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Show 5 entries


Search:

Serial No.	Title	Description	Link	Publication Date	Author
1	Bullder Jayesh Tanna arrested in cheating case, produced before magistrate court		<a href="https://timesofindia.indiatimes.com/city/mumbai/bullder-jayesh-tanna-arrested-in-cheating-case-produced-before-magistrate-court/articleshow/105894567.cms">https://timesofindia.indiatimes.com/city/mumbai/bullder-jayesh-tanna-arrested-in-cheating-case-produced-before-magistrate-court/articleshow/105894567.cms</a>	2024-02-03T00:18:45+05:30	Ahmed Ali
2	2 including woman Sanik booked for cheating		<a href="https://timesofindia.indiatimes.com/city/mumbai/2-including-woman-sanik-booked-for-cheating/articleshow/105894567.cms">https://timesofindia.indiatimes.com/city/mumbai/2-including-woman-sanik-booked-for-cheating/articleshow/105894567.cms</a>	2024-02-02T23:59:21+05:30	Ahmed Ali
3	Mumbai: Activists protest against society notice that 'stray dogs not allowed'	 <p>City based animal activists have questioned a public notice put up at the gates of a Powai society stating that "stray dogs not allowed inside society". The activists have asserted that it is wrong to stop the free movement of local community dogs if they are not causing any serious issue in the locality. Photo of the public notice at Hirannandani area of Powai attached.</p>	<a href="https://timesofindia.indiatimes.com/city/mumbai/mumbai-activists-protest-against-society-notice-that-stray-dogs-not-allowed/articleshow/105894567.cms">https://timesofindia.indiatimes.com/city/mumbai/mumbai-activists-protest-against-society-notice-that-stray-dogs-not-allowed/articleshow/105894567.cms</a>	2024-02-02T22:59:35+05:30	Vijay Singh
4	Navi Mumbai: Vashi dog brutally killed, decapitated; shocked auto drivers lodge complaint	 <p>A brutal killing of friendly street dog called Laalu just outside Vashi railway station recently, has stunned the association of local autorickshaw drivers who used to take care of Laalu, and had also made a small house for him in their parking area. The auto association, Chalak Malak Sanghataa-Vashi Railway Station East, has also issued an obituary of Laalu, and are not able to comprehend why someone could have mercilessly killed him.</p>	<a href="https://timesofindia.indiatimes.com/city/mumbai/navi-mumbai-vashi-dog-brutally-killed-decapitated-shocked-auto-drivers-lodge-complaint/articleshow/105894567.cms">https://timesofindia.indiatimes.com/city/mumbai/navi-mumbai-vashi-dog-brutally-killed-decapitated-shocked-auto-drivers-lodge-complaint/articleshow/105894567.cms</a>	2024-02-02T21:32:16+05:30	Vijay Singh
5	Maintain status quo on Air India staff colony at Kalina till Feb 5: Bombay HC	 <p>Bombay high court maintains status quo in the Air India staff colony eviction case until Feb 5. The appeal by four associations seeks to restrain MIAL, Air India, AAI, AI Assets Holding Ltd, and Mumbai police from evicting the staff from the colony.</p>	<a href="https://timesofindia.indiatimes.com/city/mumbai/maintain-status-quo-on-air-india-staff-colony-at-kalina-till-feb-5-bombay-hc/articleshow/105894567.cms">https://timesofindia.indiatimes.com/city/mumbai/maintain-status-quo-on-air-india-staff-colony-at-kalina-till-feb-5-bombay-hc/articleshow/105894567.cms</a>	2024-02-02T19:49:15+05:30	Swati Deshpande

Searching /Sorting/ Pagination:

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Serial No.	Title	Description	Link	Publication Date	Author
7	BMC education budget surges by over Rs 150 crore; new projects announced		<a href="https://timesofindia.indiatimes.com/city/mumbai/bmc-education-budget-surges-by-over-rs-150-crore-new-projects-announced/articleshow/105894567.cms">https://timesofindia.indiatimes.com/city/mumbai/bmc-education-budget-surges-by-over-rs-150-crore-new-projects-announced/articleshow/105894567.cms</a>	2024-02-02T12:45:58+05:30	Yogita Rao
10	Nine injured after gas cylinder explodes in Mumbai's Chembur		<a href="https://timesofindia.indiatimes.com/city/mumbai/gas-cylinder-explodes-in-mumbai-s-chembur/articleshow/105894567.cms">https://timesofindia.indiatimes.com/city/mumbai/gas-cylinder-explodes-in-mumbai-s-chembur/articleshow/105894567.cms</a>	2024-02-02T10:54:45+05:30	Sanjeev Devasia
12	Man booked for flying drone		<a href="https://timesofindia.indiatimes.com/city/mumbai/man-booked-for-flying-drone/articleshow/105894567.cms">https://timesofindia.indiatimes.com/city/mumbai/man-booked-for-flying-drone/articleshow/105894567.cms</a>	2024-02-02T08:18:46+05:30	N/A

Showing 1 to 3 of 3 entries (filtered from 20 total entries)






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Occupants of running train

6	Bombay HC directs release of Rs 20 lakh to Rakesh Roshan	 <p>Bombay HC ordered the release of Rs 20 lakh to Rakesh Roshan in a cheating case. The amount was part of Rs 50 lakh lost to two men posing as CBI officers. Roshan lodged a complaint, leading to arrests and convictions of the accused.</p>	<a href="https://timesofindia.indiatimes.com/city/mumbai/bombay-hc-directs-release-of-rs-20-lakh-to-rakesh-roshan/articleshow/105894567.cms">https://timesofindia.indiatimes.com/city/mumbai/bombay-hc-directs-release-of-rs-20-lakh-to-rakesh-roshan/articleshow/105894567.cms</a>	2024-02-02T15:19:36+05:30	N/A
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8	Suburban rly gets fund boost, Rs 25,000 crore for bullet train	 <p>The interim budget allocates Rs 798 crore for capacity expansion projects by Western Railway and Central Railway. The Mumbai Urban Transport Project (MUTP), executed by the Mumbai Railway Vikas Corporation (MRVC), will receive a total of Rs 1,596 crore. Additionally, the National High Speed Rail Corporation (NHSRCL) is allocated Rs 25,000 crore for the Mumbai-Ahmedabad bullet train project.</p>	<a href="https://timesofindia.indiatimes.com/city/mumbai/suburban-rly-gets-fund-boost-rs-25000-crore-for-bullet-train/articleshow/105894567.cms">https://timesofindia.indiatimes.com/city/mumbai/suburban-rly-gets-fund-boost-rs-25000-crore-for-bullet-train/articleshow/105894567.cms</a>	2024-02-02T11:06:53+05:30	Manthan K Mehta
9	47 kids on organ transplant waitlist in Mumbai	 <p>Forty-seven children in Mumbai are waiting for a cadaver organ transplant. Experts emphasize the need for hospitals to promote paediatric organ donations. The city recorded its first paediatric organ donation of the year, marking a rise in paediatric transplants. Neonatal care advancements allow children to be listed for transplants. Public hospitals should focus on affordable transplants for children.</p>	<a href="https://timesofindia.indiatimes.com/city/mumbai/47-kids-on-organ-transplant-waitlist-in-mumbai/articleshow/105894567.cms">https://timesofindia.indiatimes.com/city/mumbai/47-kids-on-organ-transplant-waitlist-in-mumbai/articleshow/105894567.cms</a>	2024-02-02T11:04:25+05:30	N/A
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## Conclusion:

In this assignment, I got better at using PHP and learned more about JavaScript. I also improved my skills in creating web pages with HTML and making them look nice with CSS. The integration of technologies like DataTables, jQuery, and AJAX provided insights into asynchronous data handling and enhanced my knowledge of dynamic web applications, enabling me to tackle more complex projects in the future.

**Document created by: Etty Rajendra Tiwari**