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Project 3: Creating a News Website | JavaScript Tutorial In Hindi #40

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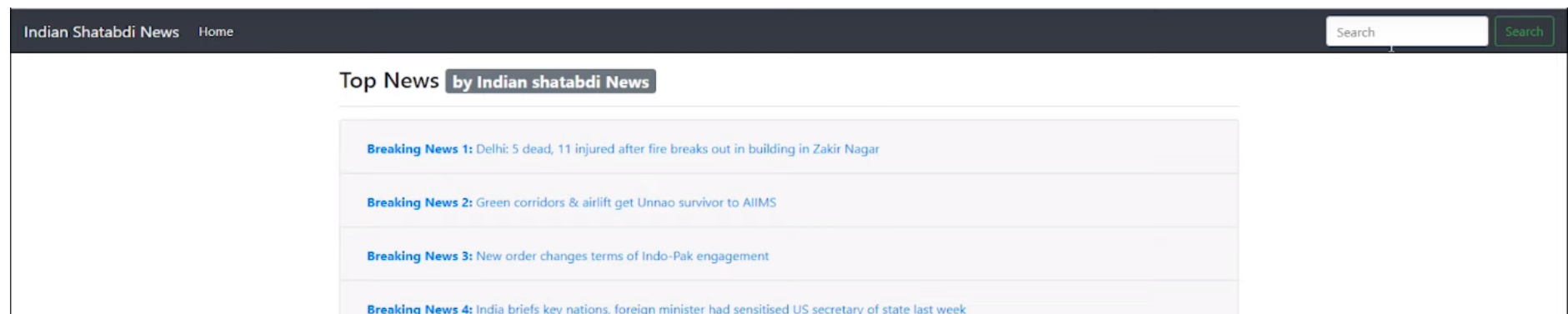## Project 3: Creating a News Website | JavaScript Tutorial In Hindi #40

Let us start our 3rd project, in which we will build the **"News Website".** This website will use news API. The **News API** is a simple and easy-to-**use** API that returns JSON metadata for headlines and articles live all over the web right now. This website will show live news to the user, which will be displayed with the help of news API.

To get the News API, follow the instructions:

1. Click on https://newsapi.org/

2. Click on " Get API Key"

3. Register for API Key

Now you will get your API Key, which you will use in the project. Don't use the API key, which is used in the project. Get your own API key. The procedure to use News API in the project is practically performed in the project. Just follow the tutorial.

The News Website we are going to build in this tutorial looks like the following:

Indian Shatabdi News   Home   Search   Search

Top News by Indian shatabdi News

Breaking News 1: Delhi: 5 dead, 11 injured after fire breaks out in building in Zakir Nagar

Breaking News 2: Green corridors & airlift get Unnao survivor to AIIMS

Breaking News 3: New order changes terms of Indo-Pak engagement

Breaking News 4: India briefs key nations, foreign minister had sensitised US secretary of state last week

Breaking News 5: Amid gloom in Valley, for many Kashmiris it's time for a hurrah

Breaking News 6: Decision on J&K expected to be challenged in SC

Breaking News 7: J&K to lose special status, Centre to directly rule Ladakh

Setting Up the Project:-

The IDE will use the for this project is VS Code. **Visual Studio Code** is a free and powerful source-code editor that runs on the desktop. If you have not installed the Visual Studio Code yet, then click on the link below for installation guidance:

https://codewithharry.com/videos/javascript-tutorials-in-hindi-1

Start by creating a new project folder in VS Code, and inside that project folder, create two empty new files: *index.html* and *inddel.js*. The *index.html file* contains the HTML code. In this project, we are also using **Bootstrap**.

Bootstrap:-

Bootstrap is used for applying styling the user interface components. The easiest way to include Bootstrap is to add it from https://getbootstrap.com/docs/4.0 /getting-started/introduction/.

First add the following in the head section:

```html
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
  integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">
```

Then include the following code in the body section, before the closing </body> tag:

```html
<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
  integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
  crossorigin="anonymous"></script>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
  integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
  crossorigin="anonymous"></script>
```

Now we are done with project introduction, now let's start coding!

Code index.html as described/written in the video

```html
<!doctype html>
<html lang="en">

<head>
  <!-- Required meta tags -->
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->
  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
    integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">

  <title>Welcome To Indian Shatabdi News</title>
</head>

<body>
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
    <a class="navbar-brand" href="#">Indian Shatabdi News</a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent"
      aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <ul class="navbar-nav mr-auto">
        <li class="nav-item active">
          <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>
        </li>


      </ul>
      <form class="form-inline my-2 my-lg-0">
        <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-label="Search">
        <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>
      </form>
```

```html
        </div>
      </nav>


      <div class="container my-3">
        <h3>Top News <span class="badge badge-secondary">by Indian shatabdi News</span></h3>
        <hr>
        <div class="accordion" id="newsAccordion"></div>
      </div>
      <!-- Optional JavaScript -->
      <!-- jQuery first, then Popper.js, then Bootstrap JS -->
      <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
        integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
        crossorigin="anonymous"></script>
      <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
        integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
        crossorigin="anonymous"></script>
      <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
        integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
        crossorigin="anonymous"></script>
      <script src="inddel.js"></script>
  </body>

</html>
```

Code index.js as described/written in the video

```javascript
console.log("This is my index js file");

// Initialize the news api parameters
let source = 'the-times-of-india';
let apiKey = 'd093053d72bc40248998159804e0e67d'

// Grab the news container
let newsAccordion = document.getElementById('newsAccordion');

// Create an ajax get request
const xhr = new XMLHttpRequest();
```

```javascript
xhr.open('GET', `https://newsapi.org/v2/top-headlines?sources=${source}&apiKey=${apiKey}`, true);

// What to do when response is ready
xhr.onload = function () {
    if (this.status === 200) {
        let json = JSON.parse(this.responseText);
        let articles = json.articles;
        console.log(articles);
        let newsHtml = "";
        articles.forEach(function(element, index) {
            // console.log(element, index)
            let news = `<div class="card">
                    <div class="card-header" id="heading${index}">
                        <h2 class="mb-0">
                        <button class="btn btn-link collapsed" type="button" data-toggle="collapse" data-target="#collapse${in
                            aria-expanded="false" aria-controls="collapse${index}">
                            <b>Breaking News ${index+1}:</b> ${element["title"]}
                        </button>
                        </h2>
                    </div>

                    <div id="collapse${index}" class="collapse" aria-labelledby="heading${index}" data-parent="#newsAccordion'
                        <div class="card-body"> ${element["content"]}. <a href="${element['url']}" target="_blank" >Read more
                    </div>
                    </div>`;
            newsHtml += news;
        });
        newsAccordion.innerHTML = newsHtml;
    }
    else {
        console.log("Some error occured")
    }
}

xhr.send()
```

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