MAJOR PROJECT REPORT

On

Online News Portal

Submitted in Partial fulfilment for the Award of the degree of

Bachelor of Technology
In
INFORMATION TECHNOLOGY
Submitted to

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Approved by AICTE New Delhi & Govt. of MP
Affiliated to Rajiv Gandhi Proudyogiki Vishwavidhyalaya, Bhopal(jan – jun 2025)

ORIENTAL COLLEGE OF TECHNOLOGY, BHOPAL

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DEPARTMENT OF INFORMATION TECHNOLOGY

CANDIDATE'S DECLARATION

I hereby declare that the Major Project report on "**Online news portal"** which is being presented here for the partial fulfillment of the requirement of Degree of *"Bachelor of Technology"* has been carried out at **Department of Information Technology Oriental College of Technology Bhopal** . The technical information provided in this report is presented with due permission of the authorities from the training organization.

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CERTIFICATE OF INSTITUTE

This is to certify that Mr .Akash Tiwari, Mr .Anshik Khare, Mr. Harshit Sharma ,Mr. Ashan Pratap Singh of B.Tech. Information Technology Department Enrollment No. 0126IT211007, 0126IT211018, 0126IT211037, 0105EX211022 has successfully completed his Minor Project during the academic year 2022-2023 as partial fulfilment of the Bachelor of Technology in Information Technology.

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 I have put all my efforts to ensure that the project is completed in the best possible manner and ensured that the project is error-free.

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<u>INTRODUCTION</u>

Welcome to Online News Portal, a cutting-edge online news portal that leverages the power of JavaScript, HTML, CSS, and API integration to bring you the latest news from around the world. Our portal is designed to provide a seamless and intuitive news-reading experience, with a focus on reliability, speed, and customization.

Using the latest web development technologies and a robust API integration, News portal aggregates news from diverse sources, providing a broad perspective on current events. Our platform empowers users to stay informed, engaged, and up-to-date on the latest news, anytime and anywhere.

With News Portal, we aim to revolutionize the way you consume news, providing a one-stop shop for all your news needs. Explore, engage, and stay informed with Online News Portal.

Leveraging the latest advancements in JavaScript, HTML5, CSS3, and API integration, News portal aggregates news from a diverse range of sources, providing a broad perspective on local, national, and international news. Our platform empowers users to:
- Stay up-to-date on the latest news, anytime and anywhere
- Customize their news feed with topics and sources of interest
- Engage with interactive multimedia content
- Access archives and search functionality for in-depth research
- Enjoy a responsive and visually appealing design

Built on a solid foundation of:
- JavaScript, for dynamic client-side functionality and API integration
- HTML5 and CSS3, for a responsive, accessible, and visually appealing design
- API integration, for seamless data retrieval from multiple sources
- VS Code, for efficient coding, debugging, and testing

News portal aims to revolutionize the way you consume news, providing a one-stop shop for all your news needs. Whether you're a news enthusiast, researcher, or professional, our portal is designed to meet your unique needs and preferences.

OBJECTIVE

The objective of an online news portal is to provide timely, accurate, and comprehensive news coverage to a wide audience through a digital platform. Here are the primary objectives in detail:

1. Timely Delivery of News
Real-Time Updates: Provide the latest news and updates as events unfold, ensuring that readers are informed promptly.
Breaking News: Highlight important breaking news stories with real-time notifications and updates.

2. Comprehensive Coverage
Diverse Topics: Cover a broad range of subjects including politics, sports, entertainment, technology, business, health, and more.
In-Depth Reporting: Offer detailed analysis, investigative journalism, and in-depth reports on significant issues.

3. Accessibility
Global Reach: Make news accessible to a global audience, breaking geographical barriers.
Multi-Device Support: Ensure the portal is accessible on various devices such as smartphones, tablets, and desktop computers.

4. User Engagement
Interactive Features: Provide features like comments, shares, polls, and quizzes to engage readers.
Personalization: Allow users to personalize their news feed based on their interests and preferences.

5. Credibility and Accuracy
Fact-Checking: Maintain high standards of journalism by ensuring the accuracy and credibility of the news reported.
Transparency: Be transparent about sources and methods used in reporting.

6. Revenue Generation
Monetization: Develop sustainable revenue models through advertising, subscriptions, sponsored content, and partnerships.
Premium Content: Offer premium content or features for subscribed or paying members.

7. Community Building
User Community: Foster a community of readers who can engage with each other and the content through comments, forums, and social media.
Feedback Loop: Encourage feedback from readers to improve the content and user experience.

8. Educational Value
Inform and Educate: Inform and educate readers on current events, significant issues, and trends.
Resources: Provide additional resources like opinion pieces, editorials, and expert analyses to offer a well-rounded perspective.

<u>WHAT IS ONLINE NEWS PORTAL?</u>

An online news portal is a website or platform dedicated to delivering news and information on various topics. These portals often cover a wide range of subjects, including politics, sports, entertainment, technology, business, health, and more. Online news portals can be the digital counterparts of traditional newspapers or entirely digital entities with no print version.

Key features of online news portals include:

Timeliness: They provide up-to-date news, often with real-time updates on breaking stories.
Multimedia Content: Articles are often complemented with images, videos, infographics, and interactive features.
Accessibility: Accessible from anywhere with an internet connection, offering news to a global audience.
Interactivity: Many portals allow readers to comment on articles, share stories on social media, and participate in polls or discussions.
Customization: Users can often personalize their news feed based on their interests.
Archives: They typically have extensive archives that allow users to search for past news stories.
Examples of popular online news portals include BBC News, CNN, The New York Times, and Huffington Post. These portals have revolutionized the way people consume news by providing immediate access to information and fostering greater engagement through multimedia and interactivity.

1. Real-time news updates:

- News is updated minute-by-minute, allowing users to stay informed about the latest developments.
- Breaking news alerts and push notifications keep users informed on-the-go.
- Real-time updates cater to the 24-hour news cycle, ensuring users have access to the latest news as it happens.

1. Customizable news preferences:

- Users can select specific topics, categories, or authors to follow.
- Personalized news feeds are generated based on user preferences.
- Users can customize the frequency and format of news updates (e.g., email newsletters or mobile notifications).

1. User-friendly interface:

- Clean and intuitive design makes it easy to navigate and find news.
- Clear headings, tags, and categories help users quickly locate relevant news.
- Responsive design ensures a seamless user experience across devices (desktop, tablet, mobile).

1. Multimedia content integration:

- News articles often include images, videos, infographics, and audio clips.
- Multimedia content enhances the storytelling experience and provides diverse ways to engage with news.
- Visual and interactive elements break up text and make news more engaging.

1. Search functionality:

- Powerful search engines allow users to quickly find specific news articles or topics.
- Search filters and facets help users refine their search results (e.g., by date, author, or category).
- Autocomplete suggestions and related search terms aid discovery.

1. Social media sharing options:

- Users can share news articles directly to popular social media platforms (e.g., Facebook, Twitter, LinkedIn).
- Sharing options include email, messaging apps, and bookmarking services.
- Social media integration facilitates discussion, debate, and news dissemination.

ONLINE NEWS PORTAL OVERVIEW

An online news portal is a digital platform or website dedicated to delivering news and information on various topics, such as politics, sports, entertainment, technology, business, health, and more. These portals can be affiliated with traditional media organizations or exist exclusively online.

Key Features -:

Timeliness and Real-Time Updates

Provide up-to-date news with frequent updates on breaking stories.

Deliver news quickly, often in real-time, making it accessible as events unfold.

Multimedia Content

Articles often include images, videos, infographics, and interactive features.

Enhance reader engagement through multimedia storytelling.

Global Accessibility

Accessible from anywhere with an internet connection.

Cater to a global audience, breaking geographical barriers.

Interactivity

Allow readers to comment on articles, share stories on social media, and participate in discussions.

Include features like polls, quizzes, and forums to engage users.

Customization and Personalization

Users can personalize their news feed based on their interests.

Offer subscription services for tailored content delivery.

Extensive Archives

Provide access to past news stories through searchable archives.

Enable users to research and reference previous articles.

KEY FEATURES OF ONLINE NEWS PORTAL

1.Timeliness and Real-Time Updates

Provide up-to-date news with frequent updates on breaking stories.

Deliver news quickly, often in real-time, making it accessible as events unfold.

2. Multimedia Content

Articles often include images, videos, infographics, and interactive features.

Enhance reader engagement through multimedia storytelling.

3.Global Accessibility

Accessible from anywhere with an internet connection.

Cater to a global audience, breaking geographical barriers.

4.Interactivity

Allow readers to comment on articles, share stories on social media, and participate in discussions.

Include features like polls, quizzes, and forums to engage users.

5.Customization and Personalization

Users can personalize their news feed based on their interests.

Offer subscription services for tailored content delivery.

6.Extensive Archives

Provide access to past news stories through searchable archives.

Enable users to research and reference previous articles.

7.Variety of Content

Cover a wide range of topics, ensuring something for every reader.

Include sections like opinion pieces, editorials, and blogs for diverse perspectives.

ADVANTAGES

1. Global accessibility: Online news portals can be accessed from anywhere in the world, at any time, as long as there is an internet connection.

2. Up-to-the-minute updates: Online news portals provide real-time updates on news stories, allowing users to stay informed about the latest developments.

3. Diverse perspectives: Online news portals often feature articles and opinions from a wide range of sources, providing users with a diverse range of perspectives on a given topic.

4. Personalization: Many online news portals allow users to customize their news feed, selecting specific topics or sources they are interested in.

5. Multimedia content: Online news portals often include multimedia content such as videos, podcasts, and infographics, making news consumption more engaging and interactive.

6. Archives and search functionality: Online news portals typically have archives of past news stories and search functionality, allowing users to easily find specific news articles or topics.

7. Cost-effective: Online news portals are often free or low-cost, making them a more affordable option than traditional print newspapers.

8. Environmentally friendly: Online news portals reduce the need for physical newspapers, making them a more sustainable option.

9. Real-time feedback: Online news portals allow users to provide immediate feedback through comments, social media sharing, and email newsletters.

10. Accessible on various devices: Online news portals can be accessed on various devices such as smartphones, tablets, laptops, and desktops, making it easy to stay informed on-the-go.

TECHNOLOGY USED

- ## HTML :

  HTML (HyperText Markup Language)

  HTML forms the backbone of any web page, providing the structure and content. In an online news portal, HTML is used to Structure Content: Define the layout of the web pages, including headers, footers, navigation menus, articles, sidebars, and other elements.

  Semantic Elements: Use semantic tags like <header>, <nav>, <article>, <section>, and <footer> to enhance the readability and accessibility of the content.

  Forms: Create sign-up forms, comment sections, and search bars.

  Links and Media: Embed links, images, videos, and other multimedia content.

- ## CSS:

  CSS (Cascading Style Sheets)

  CSS is used to style the HTML content, making the web page visually appealing and user-friendly. In an online news portal, CSS is used to Layout Design: Create a responsive and adaptive layout that works across different devices and screen sizes using techniques like Flexbox and CSS Grid.

  Styling Elements: Define the appearance of text, images, links, buttons, and other elements.

  Theming: Implement consistent color schemes, fonts, and branding elements.

  Animations and Transitions: Enhance user experience with animations and transitions for interactive elements.

JAVASCRIPT:

 JavaScript

JavaScript adds interactivity and dynamic functionality to the news portal. It is used to Fetch and Display Content: Retrieve news articles and other content from a server or API and dynamically update the web page without needing a page reload.

Interactive Elements: Implement features like carousels, slideshows, and modal windows.

Form Validation: Validate user input in forms for sign-up, comments, and searches.

User Interaction: Handle events like clicks, scrolls, and hovers to provide a responsive user experience.

USER INTERFACE

Taaza Khabar   General   Business   Sports   Technology   Entertainment   Search News   Search

General News

T20 World Cup, WI vs PNG Live Score: Windies restrict Papua New Guinea to 136/8 - Hindustan Times
2024-06-02

T20 World Cup, WI vs PNG Live Score: West Indies vs Papua New Guinea: PNG posted 136/8 in 20 overs vs WI, in Georgetown on Sunday.

Read more

Ensure postal ballots counted first, guidelines followed: INDIA bloc to EC - Hindustan Times
2024-06-02

Ensure postal ballots counted first, guidelines followed: INDIA bloc to EC | Latest News India

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Maldives moves to ban Israeli citizens from entering country - The Times of India
2024-06-02

South Asia News: The Maldives will now prohibit Israeli passport holders from entering the country in response to Israel's retaliatory bombardments and ground offensiv

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Jagan Reddy to lose Andhra, predicts exit poll. 5 factors that likely hit him - India Today
2024-06-02

India-Today-Axis My India exit poll predicts that YSRCP chief Jagan Mohan Reddy is staring at a defeat in Andhra Pradesh Assembly election Here are five factors that may have led to a thumbs down from the public

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T20 World Cup 2024 Opening Ceremony Live Streaming: When And Where To Watch Live? - NDTV Sports
2024-06-02

T20 World Cup 2024 Opening Ceremony Live Streaming: When And Where To Watch Live?

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'Just to give him an...': Rohit Sharma on Rishabh Pant batting at No. 3 - The Times of India
2024-06-02

Cricket News: Captain Rohit Sharma mentioned the Indian squad's uncertainty in finalizing the T20 World Cup batting line-up. Head coach Rahul Dravid highlighted the

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Watch: 'Azam Khan ko team ke kareeb nahi aane dunga' - Shahid Afridi questions under-fire Pakistan wicket - The Times of India
2024-06-02

Cricket News: Azam Khan won't be in the ideal frame of mind ahead of his T20 World Cup debut after a series of below-par performances on the England tour, which led

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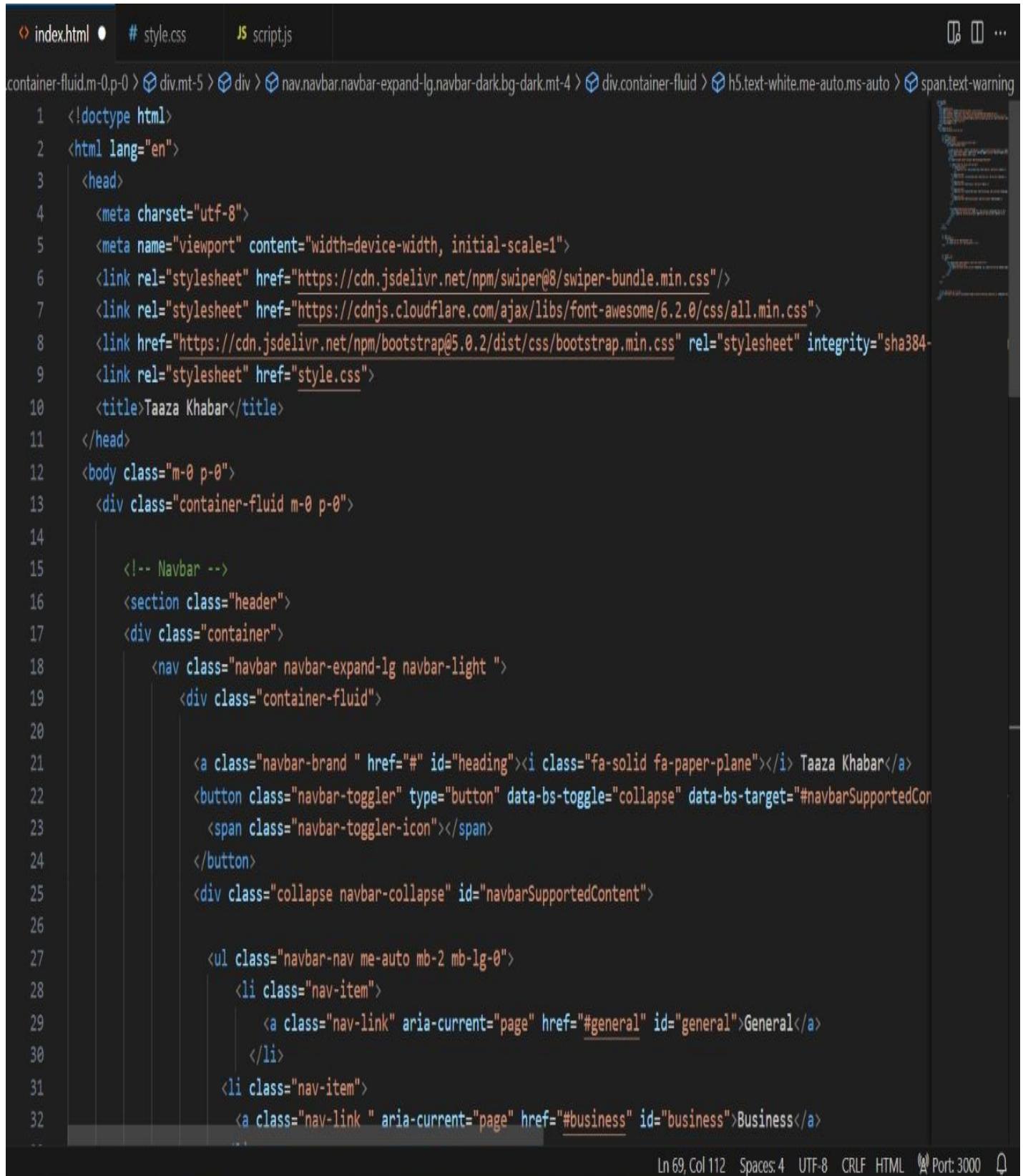### UFC 302 takeaways: Makhachev eyes double championship, legacy beyond Khabib - ESPN India
2024-06-02

Islam Makhachev and Dustin Poirier delivered an instant classic at UFC 302, but what's next for the top stars on the card?

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CODING

HTML:

container-fluid.m-0.p-0 › ⊘ div.mt-5 › ⊘ div › ⊘ nav.navbar.navbar-expand-lg.navbar-dark.bg-dark.mt-4 › ⊘ div.container-fluid › ⊘ h5.text-white.me-auto.ms-auto › ⊘ span.text-warning

```html
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">
6       <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/swiper@8/swiper-bundle.min.css"/>
7       <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.2.0/css/all.min.css">
8       <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
9       <link rel="stylesheet" href="style.css">
10      <title>Taaza Khabar</title>
11    </head>
12    <body class="m-0 p-0">
13      <div class="container-fluid m-0 p-0">
14
15        <!-- Navbar -->
16        <section class="header">
17        <div class="container">
18          <nav class="navbar navbar-expand-lg navbar-light ">
19            <div class="container-fluid">
20
21              <a class="navbar-brand " href="#" id="heading"><i class="fa-solid fa-paper-plane"></i> Taaza Khabar</a>
22              <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedCon
23                <span class="navbar-toggler-icon"></span>
24              </button>
25              <div class="collapse navbar-collapse" id="navbarSupportedContent">
26
27                <ul class="navbar-nav me-auto mb-2 mb-lg-0">
28                  <li class="nav-item">
29                    <a class="nav-link" aria-current="page" href="#general" id="general">General</a>
30                  </li>
31                  <li class="nav-item">
32                    <a class="nav-link " aria-current="page" href="#business" id="business">Business</a>
```

CSS:

```css
Taaza > # style.css > {} @media (max-width:668px)
1   *{
2       margin: 0%;
3       padding: 0%;
4   }
5   .header{
6       width: 100%;
7       margin: 0%;
8       padding: 0%;
9       background-image: linear-gradient(to right, #fad962 , #afe66c);
10  }
11  #heading{
12      font-size:xx-large;
13      font-family:'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif
14  }
15  .navbar-brand{
16      color: rgb(6, 6, 14)!important;
17  }
18  .nav-link{
19      color: rgb(0, 0, 0)!important;
20  }
21  .nav-link:hover{
22      color: rgb(228, 21, 21)!important;
23  }
24  #searchbtn{
25      background-color: bisque;
26      color: #10110e;
27  }
28  #searchbtn:hover{
29      background-color: rgb(227, 156, 68);
30      color: #10110e;
31  }
32  #bodypart{
```

Ln 41, Col 2   Spaces: 4   UTF-8   CRLF   CSS   Port: 3000

JAVASCRIPT:

```javascript
//variables

const generalBtn = document.getElementById("general");
const businessBtn = document.getElementById("business");
const sportsBtn = document.getElementById("sports");
const entertainmentBtn = document.getElementById("entertainment");
const technologyBtn = document.getElementById("technology");
const searchBtn = document.getElementById("searchbtn");

const newsQuery = document.getElementById("newsQuery");
const newsType = document.getElementById("newsType");
const newsdetails = document.getElementById("newsdetails");

//Array
var newsDataArr = [];

//api

const API_KEY = "91d45085e867440c9c1f07d141e3e3fb";
const HEADLINES_NEWS = "https://newsapi.org/v2/top-headlines?country=in&apiKey=";
const GENERAL_NEWS = "https://newsapi.org/v2/top-headlines?country=in&category=general&apiKey="
const BUSINESS_NEWS = "https://newsapi.org/v2/top-headlines?country=in&category=business&apiKey=";
const SPORTS_NEWS = "https://newsapi.org/v2/top-headlines?country=in&category=sports&apiKey=";
const ENTERTAINMENT_NEWS = "https://newsapi.org/v2/top-headlines?country=in&category=entertainment&apiKey=";
const TECHNOLOGY_NEWS = "https://newsapi.org/v2/top-headlines?country=in&category=technology&apiKey=";
const SEARCH_NEWS = "https://newsapi.org/v2/everything?q=";


window.onload = function(){
    newsType.innerHTML="<h4>Headlines</h4>";
    fetchHeadlines();
};
```

CONCLUSION

In the dynamic landscape of digital journalism, our online news portal stands as a beacon of reliable and comprehensive information. We are committed to delivering up-to-the-minute news coverage, in-depth analyses, and diverse perspectives on the issues that matter most to you. Our mission is to inform, engage, and empower our readers, providing a platform where facts are paramount, and every story is told with integrity.

As we navigate the complexities of today's world, we remain steadfast in our dedication to journalistic excellence. Thank you for choosing our portal as your go-to source for news. Stay informed, stay connected, and continue exploring the stories that shape our world with us.

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Website: The Hindu

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Website:The Indian Express