



PROJECT REPORT

InsightStream : Navigate the news landscape

YEAR : 2024 – 2025

COLLEGE NAME : K.C.S KASI NADAR COLLEGE OF ARTS & SCIENCE

CODE : UNM203

DEPARTMENT : COMPUTER SCIENCE

PROGRAM : Bachelor of Computer Application

SEMESTER : VI

PROJECT SUBMITTED TO: UNIVERSITY OF MADRAS / NAAN MUDALVAN

Course Name : Front End Development and Database Administration

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InsightStream: Your Gateway to Smarter News Consumption (React Application)

Introduction

Welcome to **InsightStream**, a next-generation web application designed to enhance the way users discover and engage with news. With an intuitive design, advanced search features, and a diverse range of news categories, InsightStream ensures that staying informed is effortless and engaging. Whether you're a news enthusiast or an industry professional, InsightStream transforms the news experience into something dynamic, interactive, and highly personalized.

Description

- **Explore News Like Never Before**

InsightStream is an innovative platform designed to streamline news discovery and presentation. With a sleek, user-friendly interface and powerful features, it redefines how users interact with news articles and global events.

- **Seamless and Engaging Interface**

Navigate through a curated selection of articles with ease. InsightStream delivers the most relevant stories in an organized manner, ensuring effortless exploration across various news categories.

- **News for Everyone**

From breaking headlines to in-depth reports, InsightStream caters to all kinds of readers. It fosters a community of informed individuals who value staying up-to-date with current affairs while encouraging discussion and engagement.

- **Stay Connected to the World**

InsightStream ensures that every click brings you closer to essential global insights. With a well-structured and interactive platform, keeping up with the world has never been easier.

- **Your Trusted News Companion**

With InsightStream, every headline is a gateway to well-researched, reliable information. Stay informed and ahead with a platform designed for modern news consumption.

Key Features

- **Real-Time News Updates:** Access a broad spectrum of news sourced from trusted APIs, ensuring comprehensive and up-to-date coverage of global affairs.
 - **Enhanced Visual Experience:** Explore news in a visually engaging format with images and organized galleries, making the browsing experience more immersive.
 - **User-Friendly Interface:** The application boasts an intuitive design, ensuring seamless navigation and a streamlined reading experience.
 - **Smart Search & Filters:** Easily find articles on specific topics using powerful search capabilities and filtering options to personalize your news feed.
-

Coding :

Index.html:

```
<!DOCTYPE html>
```

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

```
<head>
```

```
<meta charset="utf-8" />
```

```
<link rel="icon" href="%PUBLIC_URL%/favicon.ico" />
```

```
<meta name="viewport" content="width=device-width, initial-scale=1" />
```

```
<meta name="theme-color" content="#000000" />
```

```
<meta
```

```
  name="description"
```

```
  content="Web site created using create-react-app"
```

```
/>
```

```
<link rel="apple-touch-icon"
href="%PUBLIC_URL%/logo192.png" />
```

```
<!--
```

manifest.json provides metadata used when your web app is installed on a

user's mobile device or desktop. See <https://developers.google.com/web/fundamentals/web-app-manifest/>

```
-->
```

```
<link rel="manifest"
href="%PUBLIC_URL%/manifest.json" />
```

```
<!--
```

Notice the use of %PUBLIC_URL% in the tags above.

It will be replaced with the URL of the `public` folder during the build.

Only files inside the `public` folder can be referenced from the HTML.

Unlike `"/favicon.ico"` or `"favicon.ico"`, `"%PUBLIC_URL%/favicon.ico"` will

work correctly both with client-side routing and a non-root public URL.

Learn how to configure a non-root public URL by running ``npm run build``.

-->

<title>React App</title>

</head>

<body>

<noscript>You need to enable JavaScript to run this app.</noscript>

<div id="root"></div>

<!--

This HTML file is a template.

If you open it directly in the browser, you will see an empty page.

You can add webfonts, meta tags, or analytics to this file.

The build step will place the bundled scripts into the <body> tag.

To begin the development, run `npm start` or `yarn start`.

To create a production bundle, use `npm run build` or `yarn build`.

-->

</body>

</html>

GeneralContext.jsx:

import axios from 'axios';

import React, { useEffect, useState } from 'react'

export const GeneralContext = React.createContext();

const GeneralContextProvider = ({children}) => {

const [topNews, setTopNews] = useState([])

const [businessNews, setBusinessNews] = useState([]);

**const [technologyNews, setTechnologyNews] =
useState([]);**

const [politicsNews, setPoliticsNews] = useState([]);

useEffect(() => {

const fetchAllNews = async () => {

```
    await fetchTopNews();

    await new Promise(resolve => setTimeout(resolve,
1000)); // 1 sec delay

    await fetchBusinessNews();

    await new Promise(resolve => setTimeout(resolve,
1000)); // 1 sec delay

    await fetchPoliticsNews();

    await new Promise(resolve => setTimeout(resolve,
1000)); // 1 sec delay

    await fetchTechnologyNews();

};
```

```
fetchAllNews();
```

```
}, []);
```

```
const fetchTopNews = async () => {

  try {

    const response = await
axios.get('https://newsapi.org/v2/everything?q=popular&
apiKey=37306aca596542f0a8402978de3d4224');

    console.log('Top News Response:', response.data);
// Debugging
```

```
    setTopNews(response.data.articles);  
  } catch (error) {  
    console.error("Error fetching top news:",error);  
  }  
}
```

```
const fetchBusinessNews = async () => {  
  try {  
    const response = await  
    axios.get('https://newsapi.org/v2/everything?q=business&  
    apiKey=37306aca596542f0a8402978de3d4224');  
    setBusinessNews(response.data.articles);  
  } catch (error) {  
    console.error(error);  
  }  
}
```

```
const fetchPoliticsNews = async () => {  
  try {  
    const response = await  
    axios.get('https://newsapi.org/v2/everything?q=politics&a  
    piKey=37306aca596542f0a8402978de3d4224');  
    setPoliticsNews(response.data.articles);
```



```

    } catch (error) {
      console.error(error);
    }
  }

  const fetchTechnologyNews = async () => {
    try {
      const response = await
        axios.get('https://newsapi.org/v2/everything?q=technology&apiKey=37306aca596542f0a8402978de3d4224');
      setTechnologyNews(response.data.articles);
    } catch (error) {
      console.error(error);
    }
  }

  return (
    <GeneralContext.Provider value={{topNews,
      businessNews, technologyNews, politicsNews}}
    >{children}</GeneralContext.Provider>
  )
}

```

export default GeneralContextProvider

Navbar.css :

```
.navbar{  
    background-color: #fff;  
    z-index: 999;  
    position: fixed;  
    width: 100%;  
    display: grid;  
    grid-template-columns: 20% 60% 20%;  
    align-items: end;  
    height: 12vh;  
    border-bottom: 1.5px solid #464646;  
    /* margin: 0 20px; */  
    padding: 0 20px;  
    box-shadow: rgba(99, 99, 99, 0.2) 0px 2px 8px 0px;  
}
```

```
.navbar__logo{
```

```
}
```

```
.navbar__logo h2{
```

```
font-family: 'Whisper', cursive;
```

```
font-weight: bolder;
```

```
font-size: 2.2rem;
```

```
color: rgb(236, 127, 32);
```

```
cursor: pointer;
```

```
}
```

```
.navbar__links{
```

```
display: flex;
```

```
gap: 15px;
```

```
justify-content: center;
```

```
margin-bottom: 10px;
```

```
}
```

```
.navbar__links p{  
    margin: 0;  
    cursor: pointer;  
    text-transform: uppercase;  
    text-decoration: none;  
    position: relative;  
    font-size: 0.9rem;  
    color: #a0a0a0;  
}
```

```
.navbar__links p:hover{  
    color: #000;  
    transform: scale(1.08);  
    transition: 0.8s ease-in-out;  
}
```

```
.navbar__links .active{  
    color: #000;  
    transform: scale(1.08);  
    transition: 0.8s ease-in-out;
```

```
}
```

```
.navbar__search{  
  display: flex;  
  justify-content: flex-end;  
  align-items: center;  
  margin-bottom: 10px;  
  
}
```

```
.navbar__search:hover{  
  
  
  
  
  
  
}
```

```
.navbar__search .search-input{  
  width: 0px;  
  border: none;  
  
}
```

```
.navbar__search .search-input:focus{  
    width: 200px;  
    outline: none;  
    border-bottom: 2px solid #000;  
}
```

```
.navbar__search .search-icon{  
    font-size: 1.2rem;  
    cursor: pointer;  
}
```

```
.navbar__search:hover .search-input{  
    width: 200px;  
    transition: width 1s ease-in-out;  
    border-bottom: 1.5px solid #000;  
}
```

Package.json:

```
{  
  "name": "news-app",  
  "version": "0.1.0",  
  "private": true,  
  "dependencies": {  
    "@testing-library/jest-dom": "^5.17.0",  
    "@testing-library/react": "^13.4.0",  
    "@testing-library/user-event": "^13.5.0",  
    "axios": "^1.6.2",  
    "bootstrap": "^5.3.3",  
    "nth-check": "^2.1.1",  
    "postcss": "^8.5.3",  
    "react": "^18.2.0",  
    "react-bootstrap": "^2.9.1",  
    "react-dom": "^18.2.0",  
    "react-icons": "^4.12.0",  
    "react-router-dom": "^6.21.0",  
    "react-scripts": "^3.0.1",  
    "serialize-javascript": "^6.0.2",  
    "web-vitals": "^2.1.4"
```

```
},  
  "scripts": {  
    "start": "set NODE_OPTIONS=--openssl-legacy-provider && react-scripts start",  
    "build": "react-scripts build",  
    "test": "react-scripts test",  
    "eject": "react-scripts eject"  
  },  
  "eslintConfig": {  
    "extends": [  
      "react-app",  
      "react-app/jest"  
    ]  
  },  
  "browserslist": {  
    "production": [  
      ">0.2%",  
      "not dead",  
      "not op_mini all"  
    ],  
  },  
}
```

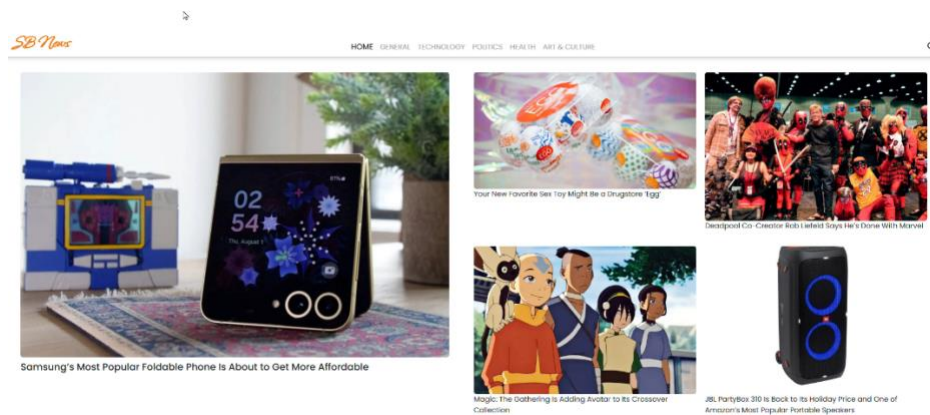

“development”: [
“last 1 chrome version”,
“last 1 firefox version”,
“last 1 safari version”
]] }

Project Overview

Project Execution & Structure

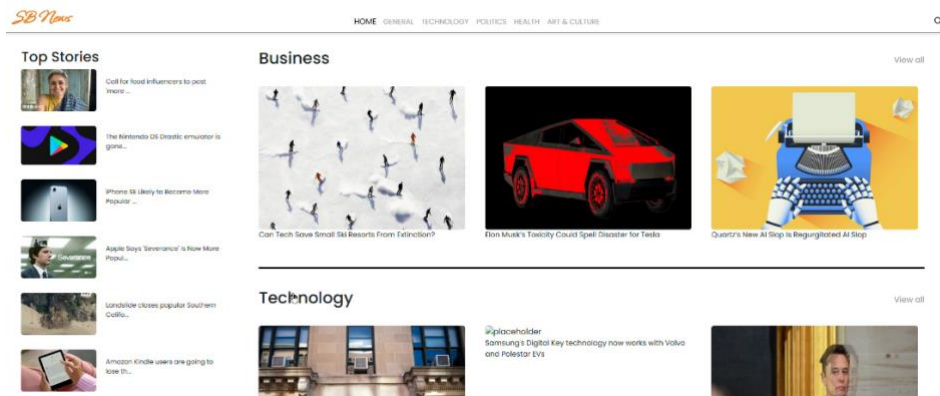
➤ Hero Section

This section highlights trending news articles, ensuring users stay informed about the most significant headlines. A search bar is also incorporated, allowing for quick access to various articles and categories.



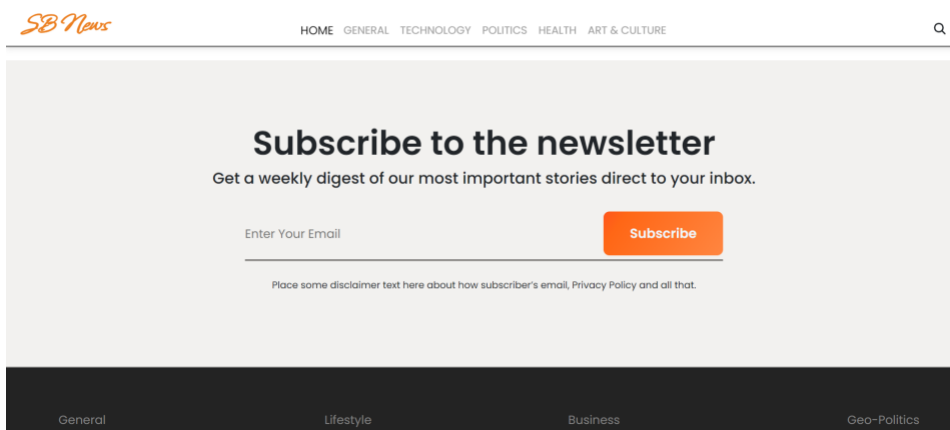
➤ Popular Categories

Users can navigate through a wide array of news topics, easily discovering articles that align with their interests.



➤ Newsletter Subscription

Stay informed effortlessly! A simple signup form enables users to subscribe to daily news updates. With a single click, subscribers receive curated articles directly in their inbox.



➤ Category/Search Results Page

This section presents a neatly organized list of articles based on selected categories or user searches. Each listing includes a headline, summary, and an optional image, with filtering options to refine results further.

politics



Chagos deal will not go ahead if it's ripe...



Dovey urges Starmer to start EU customs...



Elon Musk's AI-Driven Government Coup...



➤ Article Page

Dive deep into the news with complete articles retrieved from their original sources. This page may also offer suggestions for related articles, encouraging broader exploration and deeper engagement.



Project Demo Link

[Click here to access the demo](#)

InsightStream is built for those who want to stay informed in an efficient, engaging, and interactive way. Start exploring today and redefine how you consume news!