



## 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 APPLICATION

PROGRAM : BCA COMPUTER APPLICATION

SEMESTER : VI

PROJECT SUBMITTED TO: UNIVERSITY OF MADRAS / NAAN MUDALVAN

Course Name : **Front End Development and Database Administration**

TEAM LEADER : Harish V

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

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## 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.

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## Description

### 1. 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.

### 2. 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.

### 3. 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.

### 4. 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.

### 5. 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.

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## Key Features

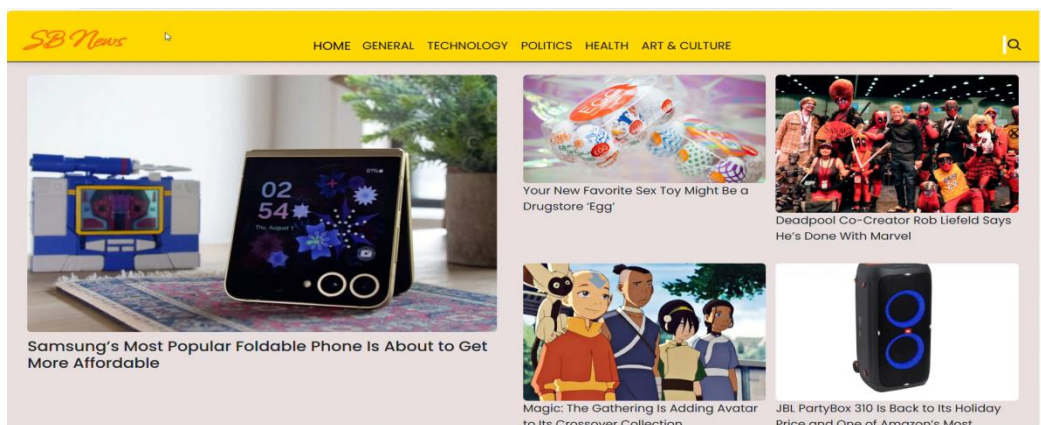
1. **Real-Time News Updates:** Access a broad spectrum of news sourced from trusted APIs, ensuring comprehensive and up-to-date coverage of global affairs.
  2. **Enhanced Visual Experience:** Explore news in a visually engaging format with images and organized galleries, making the browsing experience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

### Project Execution & Structure

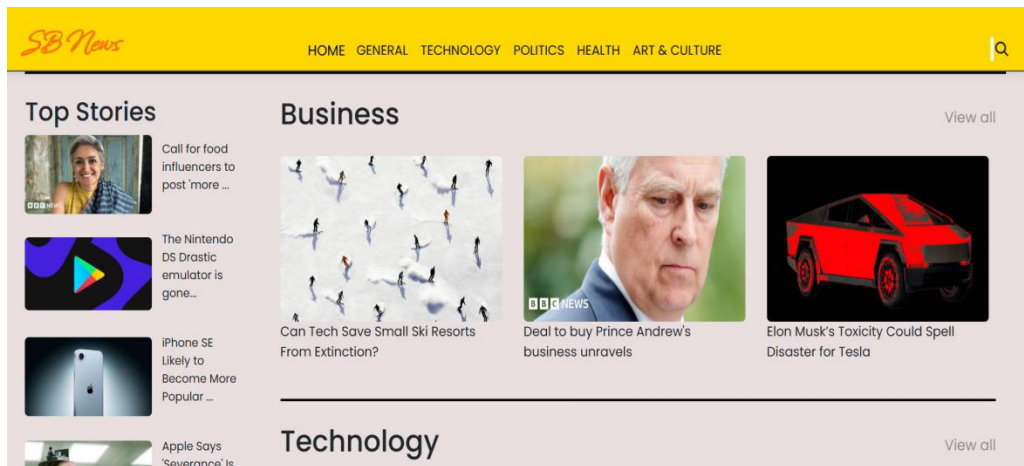
#### 1. Hero Section

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.



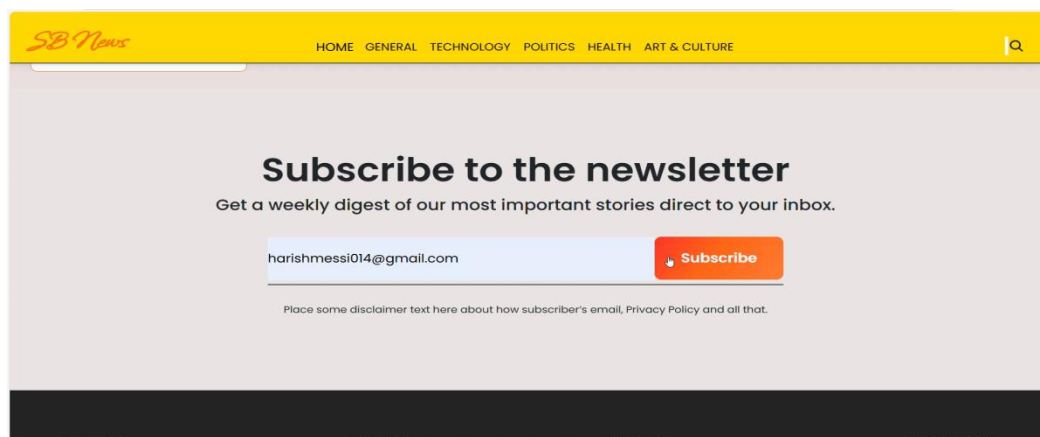
#### 2. Popular Categories

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



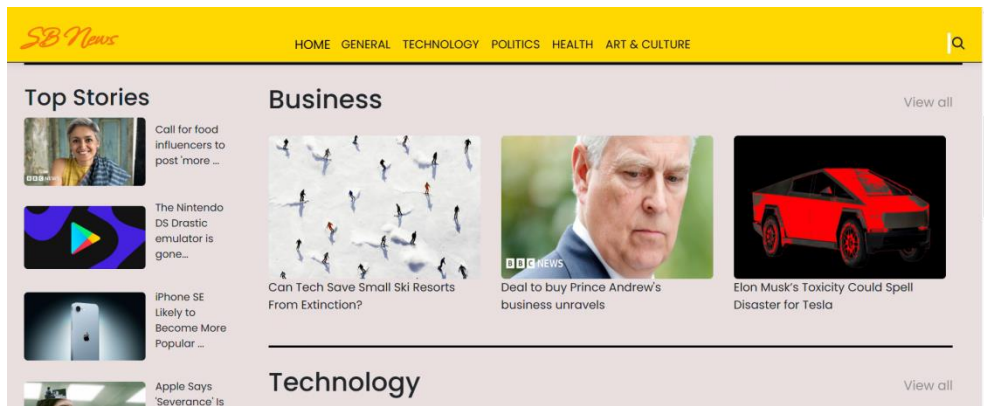
### 3. Newsletter Subscription

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.



### 4. 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.



## 5. 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.



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## Project Demo Link

[Click here to access the demo](#)

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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!

```
import { Route, Routes } from 'react-router-dom';
import './App.css';
import Home from './pages/Home';
import CategoryPage from './pages/CategoryPage';
import NewsPage from './pages/NewsPage';
import NavbarComponent from './components/NavbarComponent';
import Footer from './components/Footer';

function App() {

  return (
    <div className="App">
      <NavbarComponent />
      <Routes>
        <Route exact path="/" element={<Home/>} />
        <Route exact path="/category/:id" element={<CategoryPage/>} />
        <Route exact path="/news/:id" element={<NewsPage/>} />
      </Routes>
      <Footer />
    </div>
  );
}

export default App;

import { render, screen } from '@testing-library/react';
import App from './App';
```

```
test('renders learn react link', () => {  
  render(<App />);  
  const linkElement = screen.getByText(/learn react/i);  
  expect(linkElement).toBeInTheDocument();  
});
```

```
@import 'bootstrap/dist/css/bootstrap.min.css';
```

```
@import  
url('https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;600;700;800  
;900&family=Whisper&display=swap');
```

```
body {  
  margin: 0;  
  font-family: 'Poppins', sans-serif;  
  -webkit-font-smoothing: antialiased;  
  -moz-osx-font-smoothing: grayscale;  
  -ms-overflow-style: none; /* IE and Edge */  
  scrollbar-width: none;  
}
```

```
body::-webkit-scrollbar {  
  display: none;  
}
```

```
code {  
  font-family: source-code-pro, Menlo, Monaco, Consolas, 'Courier New',  
  monospace;  
}
```

```
.spinners{
```

```
display: flex;
justify-content: center;
align-items: center;
gap: 10px;
}
```

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';
import { BrowserRouter } from 'react-router-dom';
import GeneralContextProvider from './context/GeneralContext';
```

```
const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <BrowserRouter>
    <GeneralContextProvider>
      <App />
    </GeneralContextProvider>
  </BrowserRouter>
);
```

```
// If you want to start measuring performance in your app, pass a function
// to log results (for example: reportWebVitals(console.log))
// or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
reportWebVitals();
```



```
const reportWebVitals = onPerfEntry => {  
  if (onPerfEntry && onPerfEntry instanceof Function) {  
    import('web-vitals').then(({ getCLS, getFID, getFCP, getLCP, getTTFB }) => {  
      getCLS(onPerfEntry);  
      getFID(onPerfEntry);  
      getFCP(onPerfEntry);  
      getLCP(onPerfEntry);  
      getTTFB(onPerfEntry);  
    });  
  }  
};  
  
export default reportWebVitals;
```

// jest-dom adds custom jest matchers for asserting on DOM nodes.

// allows you to do things like:

// expect(element).toHaveTextContent(/react/i)

// learn more: <https://github.com/testing-library/jest-dom>

```
import '@testing-library/jest-dom';
```