

InsightStream: Navigate the News

Landscape (React Application)

Introduction:


InsightStream is a revolutionary web application designed to redefine how people discover and consume news. It offers an intuitive interface, dynamic search, and a vast range of news categories for all types of users. Join InsightStream to embark on an informative journey and experience the future of news consumption.


Team Id: SWTID1741236305148861


Team Members:

Team Leader	Gayathri Priya B
Team Member	Hemalatha R
Team Member	Indumathi R
Team Member	Jaiveena S
Team Member	Subalakshmi V


Description:


 Welcome to the cutting-edge frontier of news exploration with InsightStream! Our revolutionary web application is meticulously crafted to transcend the boundaries of traditional news consumption, catering to the diverse interests of both avid news enthusiasts and seasoned information professionals. With an emphasis on an intuitive user interface and a robust feature set, InsightStream is poised to redefine the entire news discovery and consumption process.

 Designed with a commitment to user-friendly aesthetics, InsightStream immerses users in an unparalleled journalistic adventure. Navigate seamlessly through a vast expanse of news categories with features such as dynamic search, effortlessly bringing you the latest and most relevant stories from around the world.

 From those seeking the latest headlines to seasoned news connoisseurs, InsightStream embraces a diverse audience, fostering a dynamic community united by a shared passion for staying informed. Our vision is to reshape how users interact with news, presenting a

platform that not only delivers breaking stories but also encourages collaboration and sharing within the vibrant news community.

 Embark on this informative journey with us, where innovation seamlessly intertwines with journalistic tradition. Every click within InsightStream propels you closer to a realm of global happenings and perspectives. Join us and experience the evolution of news consumption, where each feature is meticulously crafted to offer a glimpse into the future of staying informed.

 Elevate your news exploration with InsightStream, where every headline becomes a gateway to a world of information waiting to be discovered and understood. Trust InsightStream to be your reliable companion on the journey of staying connected with the pulse of the world.

Scenario Based Intro:

Suppose you're rushing home after work, phone clutched in your hand. Today's been a whirlwind, and you have no idea what's happening in the world. Suddenly, you remember InsightStream, the innovative app you downloaded that promised to revolutionize your news experience. Intrigued, you open the app. Images flash across the screen – breaking headlines, in-depth articles, diverse categories. This isn't your typical news feed. InsightStream feels...different. Intrigued, you tap a category and dive in, ready to explore the future of staying informed.

Technical Architecture:

The user experience starts with the InsightStream web application's UI, likely built with a framework like React or Vue.js for a smooth, single-page experience. This UI interacts with an API client specifically designed for InsightStream. This client handles communication with the backend, but with a twist: it leverages Rapid API, a platform providing access to various external APIs. This suggests InsightStream might integrate external data feeds or functionalities through Rapid API, enriching the user experience without building everything from scratch.

Project Goals and Objectives:

The primary objective of InsightStream is to establish a user-friendly platform tailored for individuals who are passionate about staying informed, exploring diverse news topics, and accessing the latest updates.

Our key goals include:

- ✓ **User-Friendly Experience:** Develop an interface that is intuitive and easy to navigate, ensuring users can effortlessly access, save, and share their preferred news articles.
 - ✓ **Comprehensive News Management:** Provide robust features for organizing and managing news content, incorporating advanced search options for a personalized news experience.
 - ✓ **Technology Stack:** Employ cutting-edge web development technologies, such as React.js, to ensure an efficient and enjoyable user interface.
- Features of InsightStream:**
- ✓ **News from API Sources:** Access a vast library of global news spanning various categories and interests, ensuring a well-rounded coverage of current affairs.
 - ✓ **Visual News Exploration:** Discover breaking stories and explore different news categories through curated image galleries, enhancing the visual appeal of news discovery.
 - ✓ **Intuitive Design:** Navigate the application seamlessly with a clean, modern interface designed for optimal user experience and clarity in information presentation.
 - ✓ **Advanced Search Feature:** Easily access news articles on specific topics through a powerful search feature, providing users with tailored news content based on their interests.

PRE-REQUISITES:

Here are the key prerequisites for developing a frontend application using React.js:

✓ **Node.js and npm:**

Node.js is a powerful JavaScript runtime environment that allows you to run JavaScript code on the local environment. It provides a scalable and efficient platform for building network applications.

Install Node.js and npm on your development machine, as they are required to run JavaScript on the server-side.

- Download: <https://nodejs.org/en/download/>
- Installation instructions: <https://nodejs.org/en/download/package-manager/>

✓ **React.js:**

React.js is a popular JavaScript library for building user interfaces. It enables developers to create interactive and reusable UI components, making it easier to

build dynamic and responsive web applications.

Install React.js, a JavaScript library for building user interfaces.

- Create a new React app:

```
npx create-react-app my-react-app
```

Replace my-react-app with your preferred project name.

- Navigate to the project directory: `cd my-react-app`
- Running the React App:

With the React app created, you can now start the development server and see your React application in action.

- Start the development server:

```
npm start
```

This command launches the development server, and you can access

your React app at <http://localhost:3000> in your web browser.

✓ **HTML, CSS, and JavaScript:** Basic knowledge of HTML for creating the structure of your app, CSS for styling, and JavaScript for client-side interactivity is essential.

✓ **Version Control:** Use Git for version control, enabling collaboration and tracking changes throughout the development process. Platforms like GitHub or Bitbucket can host your repository.

- Git: Download and installation instructions can be found at:

<https://git-scm.com/downloads>

✓ **Development Environment:** Choose a code editor or Integrated Development Environment (IDE) that suits your preferences, such as Visual Studio Code, Sublime Text, or WebStorm.

- Visual Studio Code: Download from <https://code.visualstudio.com/download>

- Sublime Text: Download from <https://www.sublimetext.com/download>

- WebStorm: Download from <https://www.jetbrains.com/webstorm/download>

To install and run the Application project from google drive:

Follow below steps:

✓ **Get the code:**

- Download the code from the drive link given below:

https://drive.google.com/drive/folders/1tDoSwd-1l3HsPJ9_92MnZTUtteeda-hL?usp=sharing

Install Dependencies:• Navigate into the cloned repository directory and install libraries:

```
cd news-app-react
```

```
npm install
```

✓ **Start the Development Server:**

- To start the development server, execute the following command:

```
npm start
```

Access the App:

- Open your web browser and navigate to <http://localhost:3000>.
- You should see the applications homepage, indicating that the installation

and setup were successful.

You have successfully installed and set up the application on your local machine. You can

now proceed with further customization, development, and testing as needed.**Project structure:**

In this project, we've split the files into 4 major folders, *Components*, *Context*, *Pages* and *Styles*. In the pages folder, we store the files that acts as pages at different URLs in the application. The components folder stores all the files, that returns the small components in the application. The context Api will be coded in the context folder. All the styling css files will be stored in the styles folder.**Project Flow:**

Project demo:

Before starting to work on this project, let's see the demo.

Demo link:

<https://drive.google.com/file/d/1-2wjD0qekXM5HaFhBYpSdw95XXFT713/view?usp=drivesdk>

Use the code in:

<https://github.com/asunm13332213331026013/news-apps>

Milestone 1: Project setup and configuration.

- **Installation of required tools:**

To build InsightStream, we'll need a developer's toolkit. We'll use React.js for the interactive interface, React Router Dom for seamless navigation, and Axios to fetch news data. For visual design, we'll choose either Bootstrap or Tailwind CSS for pre-built styles and icons.

Open the project folder to install necessary tools. In this project, we use:

- o React Js

- o React Router Dom
- o React Icons
- o Bootstrap/tailwind css
- o Axios
- For further reference, use the following resources
 - o <https://react.dev/learn/installation>
 - o <https://react-bootstrap-v4.netlify.app/getting-started/introduction/>
 - o <https://axios-http.com/docs/intro>
 - o <https://reactrouter.com/en/main/start/tutorial>

Milestone 2: Project Development

❖ Setup the Routing paths

Setup the clear routing paths to access various files in the application.❖ Develop the Navbar and Hero components

❖ Code the popular categories components and fetch the categories from *newsapi*.

❖ Also, add the trending news in the home page.

❖ Additionally, we can add the component to subscribe for the newsletter and the footer.

❖ Now, develop the category page to display various news articles under the different categories.

Important Code snips:

Fetching Top/Trending news

With the API request, we fetch the trending news articles.

The code snippet shows a function written in Python called fetchTopNews that fetches news articles from an API. Here's a breakdown of the code:

Async function fetchTopNews:

The code defines an asynchronous function named fetchTopNews. An asynchronous function is used to handle asynchronous operations, such as making API requests that take time to complete.

try...catch block:

- The try...catch block is used to handle the API request.
- The try block contains the code that attempts to fetch data from the API using `axios.get`.
- `axios` is an external Python library for making HTTP requests. If you don't

already use Axios in your project, you'll need to install it using a package manager like pip.

- The `.get` method makes a GET request to the specified URL.

API URL:

The URL used in the API request is

```
'https://newsapi.org/v2/everything?q=popular&apiKey=37306aca596542f0a8402978de3d4224'
```

This is likely a specific API endpoint that returns popular news articles. You might need to replace this URL with the actual endpoint you want to use depending on the API you're using. Replace `'37306aca596542f0a8402978de3d4224'` with a placeholder instructing users to replace it with their own API key.

Error Handling (catch block):

The catch block handles any errors that might occur during the API request. If there's an error, it's logged to the console using `console.error(error)`.

Setting State (then block not shown):

The `.then` method (not shown in the code snippet) is likely used to process the fetched data after a successful API request.

In this case, it likely updates a state variable named `topNews` (based on the function name `fetchTopNews`) with the fetched news articles. This state variable might be used to display the news articles in a user interface.

Fetching news by search/category

With the specific category or search keyword, we use API request to fetch all the news articles related to that. The code snippet shows a function called `get_news_articles` that fetches news articles from a news API. Here's a breakdown of the code:

Imports:

The code starts by importing the requests library. The requests library is a popular Python library for making HTTP requests. If you don't already have it installed in your project, you can install it using `pip install requests`.

API Key:

The line `API_KEY = 'YOUR_API_KEY'` defines a variable named `API_KEY` and assigns it a placeholder value `'YOUR_API_KEY'`. You should replace this with a placeholder

instructing users to replace it with their own API key obtained from the news API provider they want to use.

Function Definition (get_news_articles):

The code defines a function named `get_news_articles` that takes two parameters:

- **query:** This parameter is likely a string representing the search query for news articles.
- **source:** This parameter is likely a string representing the news source (e.g., 'bbc-news', 'cnn').

Building the API Request URL:

The line `url = f'https://newsapi.org/v2/everything?q={query}&apiKey={API_KEY}'` constructs the URL for the API request using a formatted string literal (f-string).

The URL includes the following parts:

- **Base URL:** `https://newsapi.org/v2/everything`
- **Query parameters:**
 - **q:** This parameter is set to the query argument passed to the function.
 - **apiKey:** This parameter is set to the `API_KEY` variable, which should contain the user's API key.

Making the API Request (requests.get):

The line `response = requests.get(url)` sends a GET request to the API URL constructed earlier. The `requests.get` function from the `requests` library is used to make the HTTP request. The response from the API is stored in the `response` variable.

Error Handling (try...except block):

- The `try...except` block is used to handle potential errors during the API request.
- The `try` block contains the code that attempts to fetch data from the API using `requests.get(url)`.
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Project Execution:

After completing the code, run the react application by using the command “`npm start`” or “`npm run dev`” if you are using vite.js

Here are some of the screenshots of the application.

Hero components

In the hero component, the trending news articles are displayed. It is to highlight them. Apart from that, the search bar is also available to search for various articles and categories. **Popular categories**

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Newsletter

Staying informed is key! This section would act as a magnet for users who want to stay up-to-date on the latest news. A brief signup form with an email field would be presented, along with a clear call to action button like "Subscribe Now" or "Get Daily News Updates." With a simple click, users can join the InsightStream community and receive curated news delivered straight to their inbox.

Category/Search result page

Finding the news you crave is effortless with InsightStream. This page displays a neatly organized list of articles matching your chosen category or specific search query. Each entry would provide a clear headline, a concise summary, and if available, an image to give you a quick glimpse into the story. To further refine your exploration, filters or sorting options might be available. Imagine narrowing down results by date, source, keyword, or other relevant criteria to pinpoint exactly what you're looking for.

Redirected Article page

This is where you dive deep! The article page proudly displays the complete news story, retrieved directly from the original source. To keep you engaged and exploring related topics, the page might also suggest additional articles based on the current story. These suggestions can open doors to a world of interconnected information, allowing you to become a well-rounded news connoisseur.

Project Demo link:

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- ✓ **Comprehensive News Management:** Provide robust features for organizing and managing news content, incorporating advanced search options for a personalized news experience.

- ✓ **Technology Stack:** Employ cutting-edge web development technologies, such as React.js, to ensure an efficient and enjoyable user interface.

Features of InsightStream:

- ✓ **News from API Sources:** Access a vast library of global news spanning various categories and interests, ensuring a well-rounded coverage of current affairs.

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- **Sublime Text:** Download from <https://www.sublimetext.com/download>

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Milestone 1: Project setup and configuration.

- Installation of required tools:

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Open the project folder to install necessary tools. In this project, we use:

- o React Js

- o React Router Dom

- o React Icons

- o Bootstrap/tailwind css

- o Axios

- For further reference, use the following resources

- o <https://react.dev/learn/installation>

- o <https://react-bootstrap-v4.netlify.app/getting-started/introduction/>

- o <https://axios-http.com/docs/intro>

- o <https://reactrouter.com/en/main/start/tutorial>

Milestone 2: Project Development

- ❖ Setup the Routing paths

Setup the clear routing paths to access various files in the application.❖ Develop the Navbar and Hero components

- ❖ Code the popular categories components and fetch the categories from *newsapi*.

❖ Also, add the trending news in the home page.

❖ Additionally, we can add the component to subscribe for the newsletter and the footer.

❖ Now, develop the category page to display various news articles under the different categories.

Important Code snips:

Fetching Top/Trending news

With the API request, we fetch the trending news articles.

The code snippet shows a function written in Python called `fetchTopNews` that fetches news articles from an API. Here's a breakdown of the code:

Async function `fetchTopNews`:

The code defines an asynchronous function named `fetchTopNews`. An asynchronous function is used to handle asynchronous operations, such as making API requests that take time to complete.

try...catch block:

- The try...catch block is used to handle the API request.
- The try block contains the code that attempts to fetch data from the API using `axios.get`.
- `axios` is an external Python library for making HTTP requests. If you don't already use `Axios` in your project, you'll need to install it using a package manager like `pip`.
- The `.get` method makes a GET request to the specified URL.

API URL:

The URL used in the API request is

'<https://newsapi.org/v2/everything?q=popular&apiKey=37306aca596542f0a8402978de3d4224>'.

This is likely a specific API endpoint that returns popular news articles. You might need to replace this URL with the actual endpoint you want to use depending on the API you're using. Replace '`37306aca596542f0a8402978de3d4224`' with a placeholder instructing users to replace it with their own API key.

Error Handling (catch block):

The catch block handles any errors that might occur during the API request. If there's

an error, it's logged to the console using `console.error(error)`.

Setting State (then block not shown):

The `.then` method (not shown in the code snippet) is likely used to process the fetched data after a successful API request.

In this case, it likely updates a state variable named `topNews` (based on the function name `fetchTopNews`) with the fetched news articles. This state variable might be used to display the news articles in a user interface.

Fetching news by search/category

With the specific category or search keyword, we use API request to fetch all the news articles related to that. The code snippet shows a function called `get_news_articles` that fetches news articles from a news API. Here's a breakdown of the code:

Imports:

The code starts by importing the `requests` library. The `requests` library is a popular Python library for making HTTP requests. If you don't already have it installed in your project, you can install it using `pip install requests`.

API Key:

The line `API_KEY = 'YOUR_API_KEY'` defines a variable named `API_KEY` and assigns it a placeholder value `'YOUR_API_KEY'`. You should replace this with a placeholder instructing users to replace it with their own API key obtained from the news API provider they want to use.

Function Definition (get_news_articles):

The code defines a function named `get_news_articles` that takes two parameters:

- `query`: This parameter is likely a string representing the search query for news articles.
- `source`: This parameter is likely a string representing the news source (e.g., `'bbc-news'`, `'cnn'`).

Building the API Request URL:

The line `url = f'https://newsapi.org/v2/everything?q={query}&apiKey={API_KEY}'` constructs the URL for the API request using a formatted string literal (f-string).

The URL includes the following parts:

- Base URL: `https://newsapi.org/v2/everything`
- Query parameters:

- q: This parameter is set to the query argument passed to the function.
- apiKey: This parameter is set to the API_KEY variable, which should contain the user's API key.

Making the API Request (requests.get):

The line `response = requests.get(url)` sends a GET request to the API URL constructed earlier. The `requests.get` function from the `requests` library is used to make the HTTP request. The response from the API is stored in the `response` variable.

Error Handling (try...except block):

- The `try...except` block is used to handle potential errors during the API request.
- The `try` block contains the code that attempts to fetch data from the API using `requests.get(url)`.
- The `except` block handles any exceptions that might occur during the request, such as network errors or invalid API responses. In this case, it prints an error message to the console using `print(f'Error fetching news articles: {e}')`.

Project Execution:

After completing the code, run the react application by using the command “`npm start`” or “`npm run dev`” if you are using `vite.js`

Here are some of the screenshots of the application.

Hero components

In the hero component, the trending news articles are displayed. It is to highlight them. Apart from that, the search bar is also available to search for various articles and categories. Popular categories

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Newsletter

Staying informed is key! This section would act as a magnet for users who want to stay up-to-date on the latest news. A brief signup form with an email field would be presented, along with a clear call to action button like "Subscribe Now" or "Get Daily News Updates." With a simple click, users can join the

InsightStream community and receive curated news delivered straight to their inbox.

Category/Search result page

Finding the news you crave is effortless with InsightStream. This page displays a neatly organized list of articles matching your chosen category or specific search query. Each entry would provide a clear headline, a concise summary, and if available, an image to give you a quick glimpse into the story. To further refine your exploration, filters or sorting options might be available. Imagine narrowing down results by date, source, keyword, or other relevant criteria to pinpoint exactly what you're looking for.

Redirected Article page

This is where you dive deep! The article page proudly displays the complete news story, retrieved directly from the original source. To keep you engaged and exploring related topics, the page might also suggest additional articles based on the current story. These suggestions can open doors to a world of interconnected information, allowing you to become a well-rounded news connoisseur.

Project Demo link:

[https://drive.google.com/file/d/1i8y09FiMk7QM0akH3my10OBWqXH-8dNh/view?usp=shari](https://drive.google.com/file/d/1i8y09FiMk7QM0akH3my10OBWqXH-8dNh/view?usp=sharing)

ng*** Happy coding!! ***

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