

# InsightStream: Navigate the News

## 1. Introduction

**Project Title : InsightStream: Navigate the News**

**TEAM ID: NM2025TMID45113**

**TEAM LEADER:** KAVIPRIYA G ROLE-(Project Coding and Demo Video)

**EMAIL ID:** kaviprince1919@gmail.com

**NM ID:** 706A692D98D282DAF5B4700AACD5F0F7

**Team Members :**

MEENA S-ROLE-(Project Coding and Demo Video)

**EMAIL ID:** meenusss3456@gmail.com

**NM ID:** F99DAB13D1CA1F398DE4C13D1A2534E6

NITHIKA SHRI M-ROLE-(Project Coding)

**EMAIL ID:** nithikashrim2006@gmail.com

**NM ID:** 313C26484428058B2DF429274C86CF3A

PAVITHRA S-ROLE-(Project Documentation)

**EMAIL ID:** pavithrasakthivel2123@gmail.com

**NM ID:** C7AF9909488B0298DCF40005B50868B2

## 2. Project Overview

Purpose :

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:

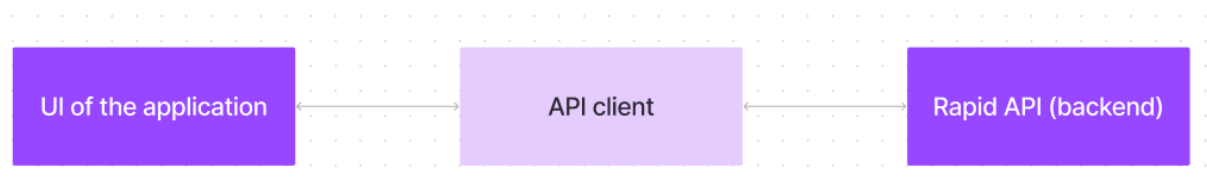
- **User-Friendly Experience:** Develop an interface that is intuitive and easy to navigate, ensuring users can effortlessly access, save, and share their preferred news articles.
- **Comprehensive News Management:** Provide robust features for organizing and managing news content, incorporating advanced 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.

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.

## 3. 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.

## 4. Setup Instructions

### 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/>

To clone and run the Application project from GitHub:

Follow below steps

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

**cd news**

**npm install**

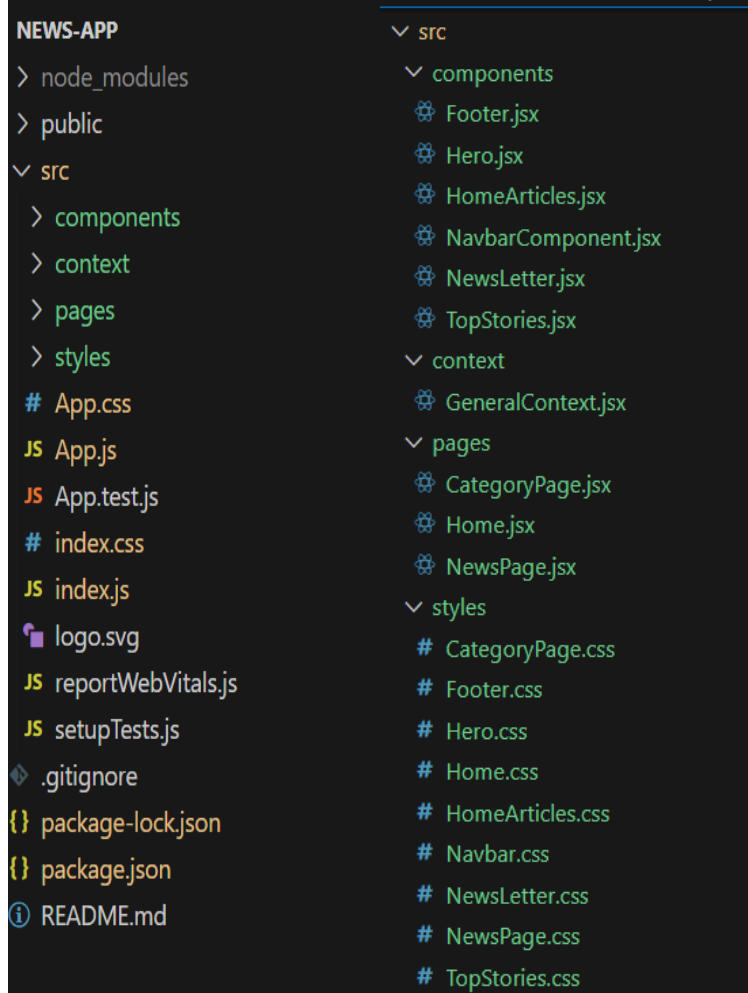
- Start the Development Server:
  - To start the development server, execute the following command:

**npm start**

- Access the App: Open your web browser and navigate to <http://localhost:3000>.

You have successfully installed and set up the application on your local machine. You can now proceed with further customization, development, and testing as needed.

## 5. Folder 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.

## 6. Project setup and configuration

- **Installation of required tools:**

2. Open the project folder to install necessary tools

In this project, we use:

- React Js
- React Router Dom
- React Icons
- Bootstrap/tailwind css
- Axios

- For further reference, use the following resources
  - <https://react.dev/learn/installation>

- <https://react-bootstrap-v4.netlify.app/getting-started/introduction/>
- <https://axios-http.com/docs/intro>
- <https://reactrouter.com/en/main/start/tutorial>

## 7. Project Development

- **Project Development**
- Setup the Routing paths

Setup the clear routing paths to access various files in the application.

Ex:

```
<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>
```

- 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.

## 8. Running Application

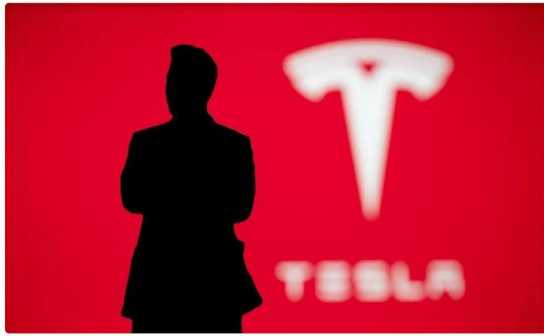
Start the Development Server:

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

**npm start**

## 9. Screenshots or Demo

- Hero components



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- Popular categories

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