# InsightStream: Navigate the News Landscape

## Introduction

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

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**Team Members:**

## Project Overview

**Purpose:** InsightStream is a modern web application designed to redefine how people discover and consume news.

## Features:

* Real-time news updates from various API sources.
* Intuitive design for seamless navigation.
* Advanced search functionality to filter news based on interests.
* Category-based news filtering.
* Subscription feature for newsletters.
* User-friendly interface built with React.js.

## Architecture

**Component Structure:**

* **Navbar Component:** Provides easy navigation across different pages.
* **Hero Component:** Displays trending news and the search bar.
* **Category Component:** Organizes news based on selected topics.
* **News Article Component**: Shows complete articles from API sources.
* **Subscription Component:** Allows users to sign up for daily news updates.
* **Footer Component:** Contains additional information and links.

**State Management:**

* Context API is used for global state management.
* useState and useEffect hooks manage local state within components.
* API calls are handled using Axios.

**Routing:**

The app uses React Router Dom for handling navigation across multiple pages.

## Setup Instructions

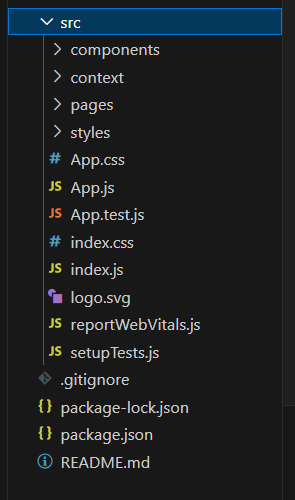
**Prerequisites:**

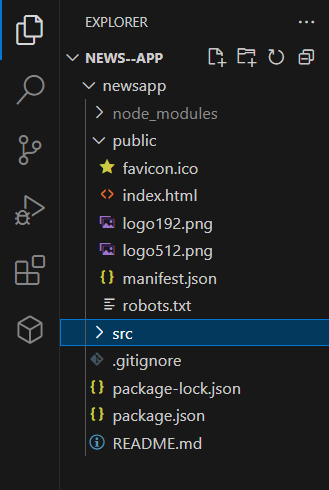
* + Node.js ([https://nodejs.org/en/download](https://drive.google.com/drive/folders/1tDoSwd-1I3HsPJ9_92MnZTUtteeda-hL?usp=sharing)/)
  + npm (Node Package Manager)
  + Git for version control (<https://git-scm.com/downloads>)
  + React.js
  + Code Editor (Recommended: Visual Studio Code (<https://code.visualstudio.com/download>)

**Installation:**

1. Clone the repository: `git clone [repository-url]`
2. Navigate into the project directory: `cd news-app-react`
3. Install dependencies: `npm install`
4. Start the development server: `npm start`
5. Open <http://localhost:3000/>in your browser.

## Folder Structure





## Running the Application

To start the frontend server locally: `npm start`

## Component Documentation

### Key Components:

* + **Navbar.js:** Handles navigation links.
  + **Hero.js:** Displays featured news and search functionality.
  + **Category.js:** Fetches and displays news by categories.
  + **NewsArticle.js:** Displays full news articles.
  + **Subscription.js:** Allows users to subscribe for updates.
  + **Footer.js:** Contains the application footer.

## API Integration

InsightStream fetches data from external sources using Rapid API and NewsAPI.

Example API Request: [`https://newsapi.org/v2/everything?q=popular&apiKey=YOUR\_API\_KEY`](%60https:/newsapi.org/v2/everything?q=popular&apiKey=YOUR_API_KEY%60)

## Styling

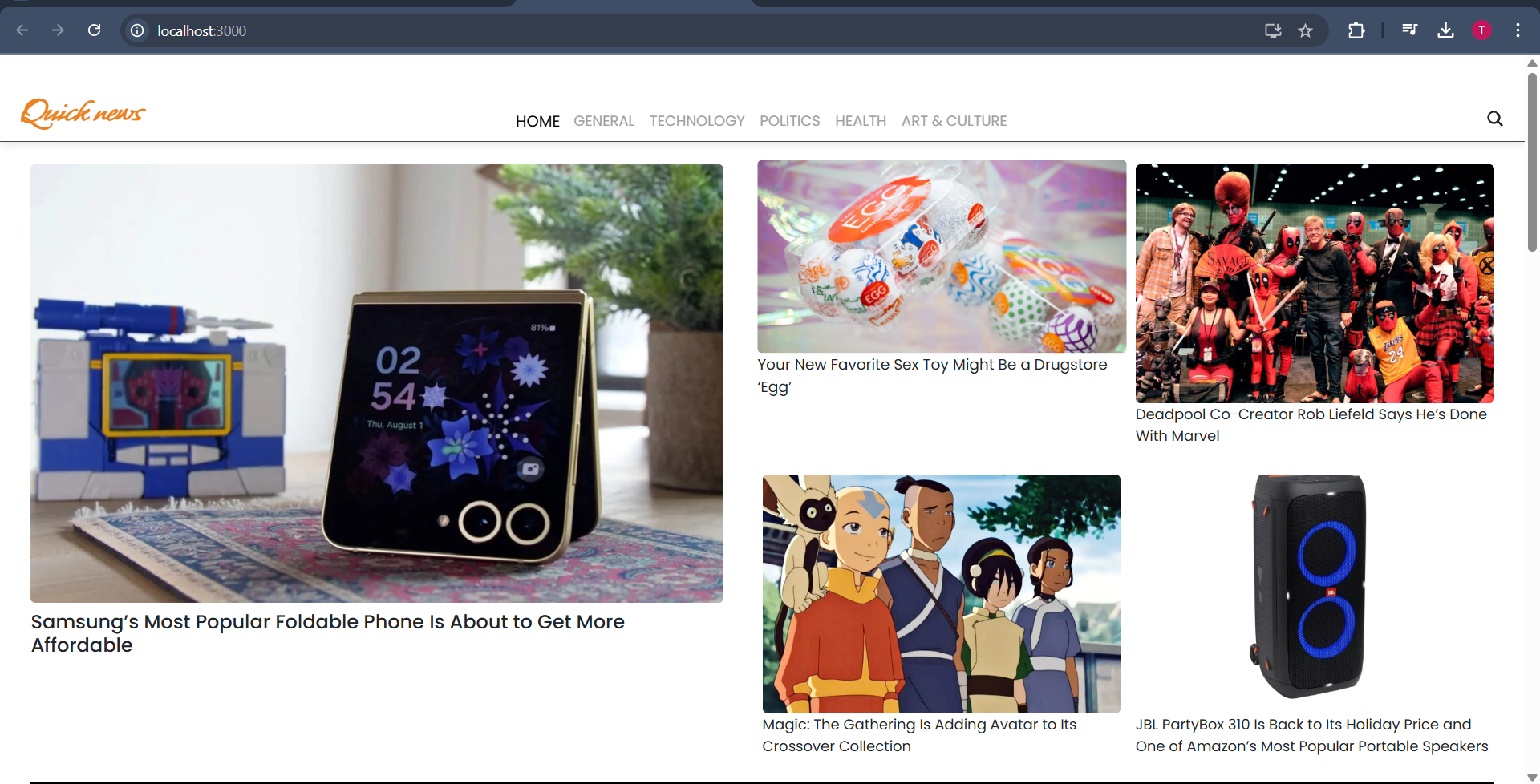
Tailwind CSS and Bootstrap are used for styling.

## Testing

### Testing Strategy:

* + Jest & React Testing Library for unit testing.
  + Cypress for end-to-end testing.

## Screenshots or Demo

* + Demo Link: <https://drive.google.com/file/d/1XRnPdDFhpEfD907SrfA_0XbHTV-nWmtb/view?usp=sharing>
  + Use this code in : [https://drive.google.com/drive/folders/1tDoSwd-1I3HsPJ9\_92MnZTUtteeda-hL?usp=sharing](https://drive.google.com/drive/folders/1tDoSwd-1I3HsPJ9_92MnZTUtteeda-hL?usp=sharing%20%20%20)
  + Screenshots: 

## Known Issues

* API rate limits may impact performance.
* Some UI elements may need further responsiveness adjustments.

## Future Enhancements

* + User authentication for personalized news feeds.
  + Dark mode and additional themes.
  + Integration with social media for news sharing.
  + Offline reading capabilities.

\*\*Happy Coding!\*\*