

Project Document (InsightStream)

1. Introduction

- **Project Title:** InsightStream – Navigate the News Landscape
 - **Team ID:** NM2025TMID47828
 - **Team Leader:** KAVIN R - *kavinrajendran1437@gamil.com*
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2. Project Overview

- **Purpose:**

InsightStream is a web application designed to redefine how users discover and consume news. It delivers a personalized, intuitive, and visually engaging news experience by integrating APIs and dynamic search features.
 - **Features:**
 - Top/Trending News highlights
 - Explore news by category
 - Advanced search for tailored articles
 - Newsletter subscription
 - Clean, modern, and responsive interface
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3. Architecture

- **Frontend:** React.js with Tailwind CSS/Bootstrap
 - **API Integration:** Axios + RapidAPI for external news feeds
 - **Routing:** React Router DOM for navigation
 - **State Management:** React Context API for global state
 - **Backend (Optional Extension):** Node.js/Firebase for newsletter subscriptions
-

4. Setup Instructions

Prerequisites:

- Node.js & npm → [Download here](#)
- React.js
- Git → [Download here](#)
- Visual Studio Code / IDE

Installation Steps:

```
# Clone repository  
git clone <repository-url>
```

```
# Move into project  
cd news
```

```
# Install dependencies  
npm install
```

```
# Start development server  
npm start
```

Access the app at <http://localhost:3000>.

5. Folder Structure

```
InsightStream/
|
├── src/
|   ├── components/      # Navbar, Hero, CategoryCard, NewsCard,
Footer
|   ├── pages/           # Home, Category, SearchResults
|   ├── context/         # NewsContext.js
|   ├── styles/          # App.css, Navbar.css, etc.
|   └── App.js           # Main entry point
|
└── package.json         # Project configuration
```

6. Running the Application

- **Frontend:**

```
cd news
npm start
```

- **Access:** Visit <http://localhost:3000>
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7. API Documentation

- **Top Headlines:**

GET

[https://newsapi.org/v2/top-headlines?country=us&apiKey=YOUR_API_K
EY](https://newsapi.org/v2/top-headlines?country=us&apiKey=YOUR_API_KEY)

- **Category News:**
GET
<https://newsapi.org/v2/top-headlines?category={category}&apiKey=c7621400c0694416955e95cfa66795bd>
 - **Search Articles:**
GET
<https://newsapi.org/v2/everything?q={query}&apiKey=c7621400c0694416955e95cfa66795bd>
-

8. Authentication

- Not required for reading news.
 - Optional: Email subscription via backend (Firebase/Mailchimp).
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9. User Interface

- **Landing Page:** Hero section with trending news
 - **Category Page:** Articles by category
 - **Search Results Page:** Keyword-based news search
 - **Newsletter Section:** Subscription form
 - **Footer:** Navigation & contact links
-

10. Testing

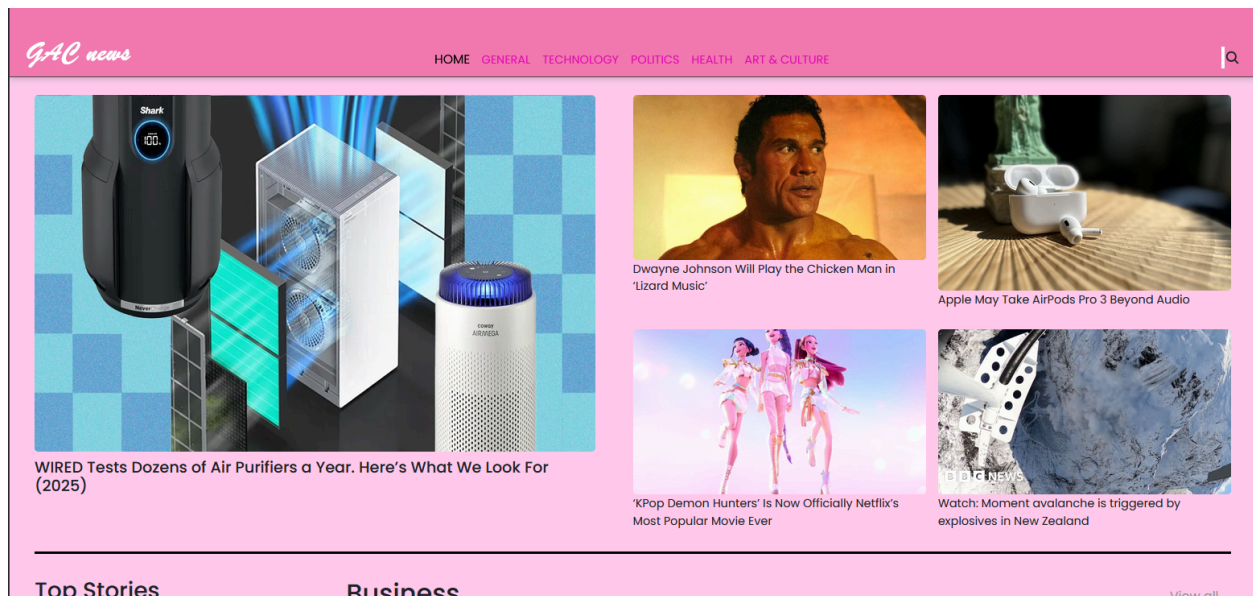
- Manual testing with:
 - Browser Dev Tools
 - Postman for API testing
- Responsive checks for mobile & desktop views

11. Demo

 Demo Video: [Watch Here](#)

 Source Code: [Access Code](#)

Screenshot:



(2025)

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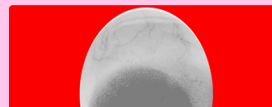
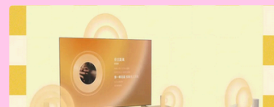
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12. Known Issues

- Limited to NewsAPI free tier (rate-limited).
 - No user login system yet.
 - Newsletter backend pending full integration.
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13. Future Enhancements

- User authentication (login, bookmarks, preferences).
- AI-powered personalized news recommendations.
- Dark mode & accessibility improvements.
- Mobile app version.