

InsightStream Navigate the news landscape – Frontend Documentation

1. Project Title

InsightStream Navigate the news landscape – Frontend Module

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2. Project Overview

Purpose:

The News Web App frontend provides a user-friendly interface for browsing and reading the latest news articles fetched from APIs or local data.

Frontend Features:

- Landing page with headlines and categories
- Filter news by category or search term
- Responsive navigation bar and footer
- Fast-loading interface built with React
- Mobile and desktop friendly UI

3. Architecture (Frontend)

- Framework: React.js
- Styling: CSS/Tailwind CSS (depending on project setup)
- Data Source: News API integration or static JSON data
- Component-based architecture for reusability

4. Setup Instructions

Prerequisites:

- Node.js (latest LTS)
- npm (comes with Node.js)
- Code editor (VS Code)

Installation Steps:

Clone the repository

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

```
cd news-app
```

Install dependencies

```
npm install
```

Start development server

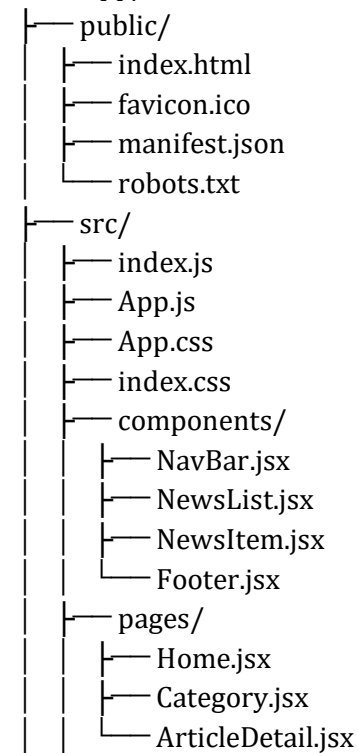
```
npm start
```

Access:

Open <http://localhost:3000> in browser

5. Folder Structure (Frontend Only)

news-app/



```
| ┌ styles/ (if any)
| └ assets/ (images/icons)
```

6. Running the Application

- Start frontend:

npm start

- Default port: 3000

- Open browser → <http://localhost:3000>

7. UI Components

- NavBar.jsx – Top navigation bar

- NewsList.jsx – Displays list of news articles

- NewsItem.jsx – Individual news article card

- Footer.jsx – Footer links and credits

8. Pages

- Home.jsx – Landing page with latest news

- Category.jsx – News filtered by category

- ArticleDetail.jsx – Detailed view of a selected news article

9. User Interface (Frontend Pages)

- Headlines section

- Category filter

- Responsive news cards

- Detailed article view

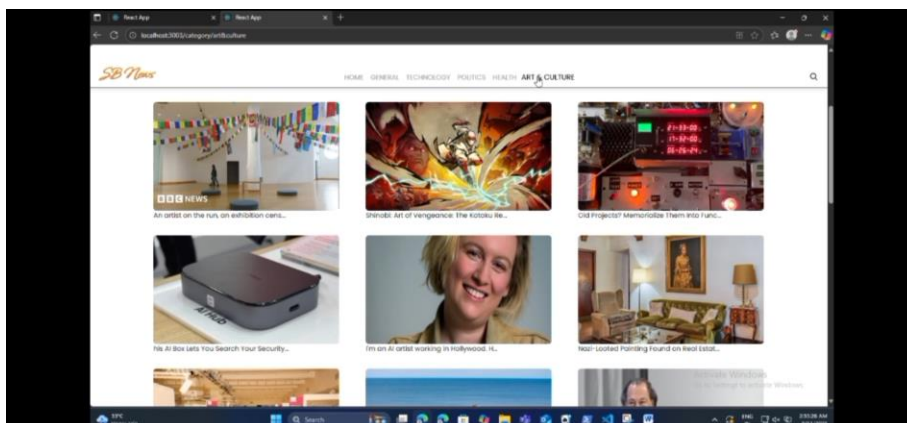
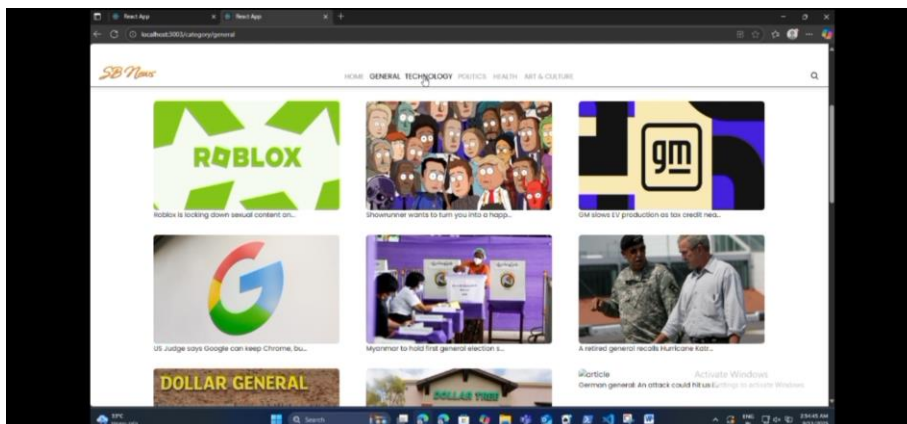
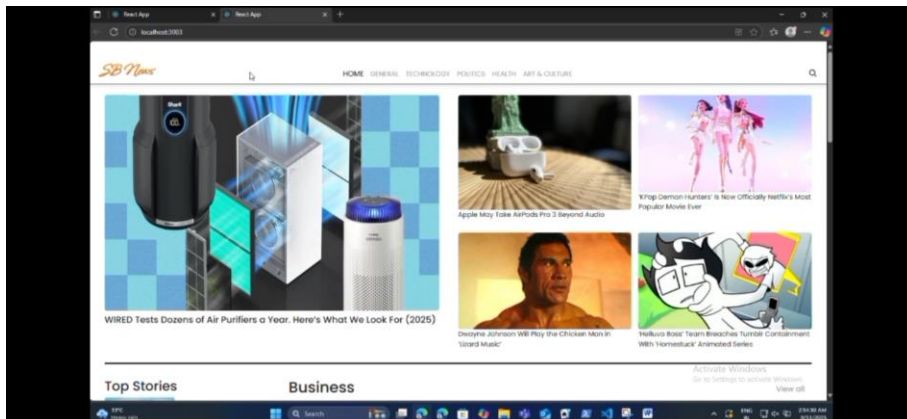
10. Testing (Frontend)

- Manual testing using browser dev tools

- Verified API calls and data rendering

- Tested responsiveness on mobile and desktop

11. Screenshots



12. Known Issues

- Limited offline support
- API rate limits may restrict data fetching

13. Future Enhancements

- Add authentication for personalized feeds
- Allow users to save favorite articles
- Implement dark mode toggle
- Enable push notifications for breaking news