

Project Documentation

Project Title

InsightStream – Navigate the News Landscape

1. Introduction

- Team ID: NM2025TMID41818
- Team Leader:

NAME: PRADEEPKUMAR S

MAILID: pradeepkumarselva04@gmail.com

- Team Members:

1) Name : PRETHEESH S

MAIL ID: pretheeshsakthi@gmail.com

2) NAME : RAGUL R

MAILID: ragulradhakrishnan222@gmail.com

3) NAME: RAJENDRA SINGH M

MAIL ID: rajendhrasinghrajpurohit02@gmail.com

2. Project Overview

- Purpose:

InsightStream is a web application that helps users explore, navigate, and analyze news content in an interactive way. It leverages modern frontend frameworks for a smooth user experience and is built with scalability in mind.

- Features:

- News aggregation & display
- User-friendly navigation with React
- Optimized builds for performance
- Extendable for future AI/NLP features

3. Architecture

- Frontend: React.js (bootstrapped with Create React App)
- Backend: (To be added if available — Node/Express or API integration?)

- Database: (To be added — MongoDB / API-based)
- Other Tools: Webpack, Babel, ESLint (via CRA)

4. Setup Instructions

- Prerequisites:

- Node.js
- npm or yarn

- Installation:

```
git clone <https://github.com/pretheesh123/InsightStream-Navigate-the-News-Landscape.git>
cd insightstream
npm install
npm start
```

- Development: Runs at `http://localhost:3000`

- Build for production:

```
npm run build
```

5. Folder Structure

```
InsightStream/
├── public/      # Static assets
├── src/         # Main React source
│   ├── components/
│   ├── pages/
│   ├── App.js
│   └── index.js
├── package.json
└── README.md
```

6. Running the Application

- Frontend: `npm start`
- Testing: `npm test` (Jest/CRA test runner)
- Build: `npm run build`

7. API Documentation

(Currently not specified — if your project fetches data from a news API, endpoints can be added here.)

8. Authentication

(Not included in current README; can be added if you plan to extend.)

9. User Interface

- Landing Page (news highlights)
- Category Pages (world, business, sports, etc.)
- Search & Filter options

10. Testing

- Jest (built-in via CRA)
- Manual testing in browsers (Chrome/Firefox/Edge)

11. Future Enhancements

- Add backend with Express + MongoDB for personalization
- AI-driven news summarization and recommendations
- User authentication & saved articles
- Mobile app integration