Project Documentation

InsightStream:Navigate the news Landscape

1.Introduction

- **Project Title:** Insight Stream:Navigate the news Landscape

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2. Project Overview

- **Purpose:** InsightStream: Navigate the News Language is a platform designed to help users read, understand, and analyze news in a simple and unbiased way. The purpose is to make news more accessible by simplifying complex language, detecting sentiment and bias, and allowing users to personalize their news experience.

- **Features:**

  - Aggregates news from multiple trusted sources and categorizes by topic.
  - Provides simplified summaries alongside original articles.
  - Detects sentiment and potential bias using AI/NLP.
  - Offers personalized news feeds and daily digests
  - Includes accessibility options like text-to-speech and multi-language support.

3.Architecture

- **Frontend:** React.js with Bootstrap and Material UI

- **Backend:** Node.js and Express.js managing server logic and API endpoints

- **Database:** MongoDB stores user data, project information, applications, and chat messages

4.Setup Instructions

- **Prerequisites:**

- Node.js
- MongoDB

- Git
- React.js
- Express.js– Mongoose – Visual Studio Code

- **Installation Steps:**

  # Clone the repository git clone

  # Install client dependencies cd client
  npm install

  # Install server dependencies cd
  ../server npm install

5.Folder Structure

```
SB-Works/
|-- client/                 # React frontend
    |__components/L__
     pages/
|__ server/                 # Node.js backend
    |__routes/
      |__ models/
        |__ controllers/
```

6.Running the Application

- **Frontend:**

  cd   client npm

start • **Backend:**

  cd server npm
  start

- **Access:** Visit http://localhost:3000

7.   API Documentation

- **User:**

  - /api/user/register
  - /api/user/login

- **Projects:**

  - /api/projects/create
  - /api/projects/:id • **Applications:** /api/apply

- **Chats:**

  - /api/chat/send– /api/chat/:userId

8.Authentication

- JWT-based authentication for secure login

- Middleware protects private routes

9.Screenshots or Demo

10.Known Issues

11.Future Enhancements