Insightstream – Project Documentation

Project Documentation

Project Title: Insightstream

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2. Project Overview

Purpose: Insightstream is a news system platform that aggregates, displays, and manages news content with a user-friendly interface. It enables CRUD operations on articles, authentication, and role-based access.

Features:

- News/article posting and management

- User authentication and authorization

- Admin control for content

- Search and filter options

3. Architecture

Frontend: React.js (assumed)

Backend: Node.js and Express.js

Database: MongoDB (assumed, can be replaced with MySQL/Postgres if confirmed)

4. Setup Instructions

Prerequisites:

- Node.js

- Database (MongoDB/MySQL)

- Git

- Visual Studio Code

Installation Steps:

# Clone repository

git clone https://github.com/Manishkumar81444/Insightstream.git

# Install dependencies

cd Insightstream

npm install

# Setup environment variables (.env)

PORT=3000

DB\_URI=<your\_database\_uri>

JWT\_SECRET=<your\_secret>

5. Folder Structure

Insightstream/

|-- frontend/ # React frontend

| |-- components/

| |-- pages/

|-- backend/ # Node.js backend

| |-- routes/

| |-- models/

| |-- controllers/

|-- tests/

6. Running the Application

Frontend:

cd frontend

npm start

Backend:

cd backend

npm start

Access: http://localhost:3000

7. API Documentation

Users:

- POST /api/auth/register

- POST /api/auth/login

Articles:

- GET /api/articles

- GET /api/articles/:id

- POST /api/articles

- PUT /api/articles/:id

- DELETE /api/articles/:id

8. Authentication

JWT-based authentication ensures secure login.

Middleware protects private routes.

9. User Interface

- Landing page with news feed

- Article detail view

- Admin dashboard

- Login and registration pages

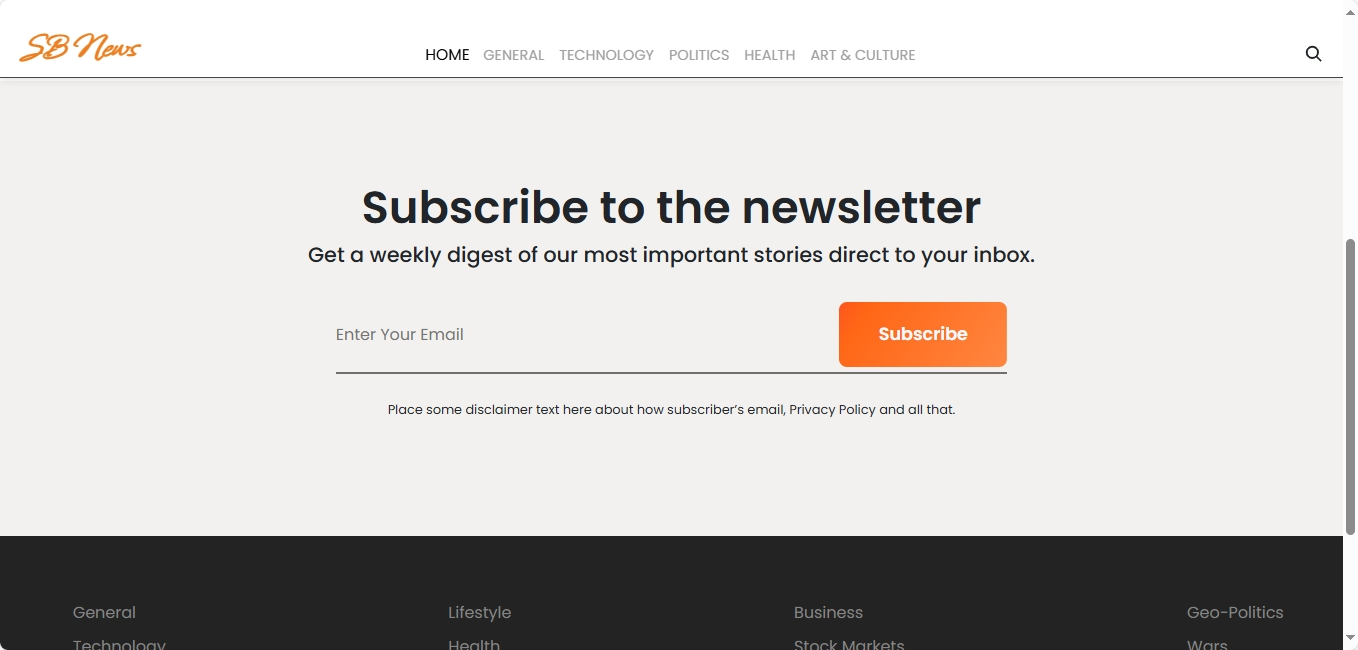
10. Testing

- Manual testing with Postman and Chrome DevTools

- Automated testing (Jest/Supertest if available)

11. Screenshots or Demo

**DEMO VIDEO LINK**: https://drive.google.com/file/d/1D1S\_6ZbpSinbybvndot9zMhNvXiu-PWG/view?usp=drivesdk



12. Known Issues

- Environment variables not fully documented

- Limited mobile responsiveness

13. Future Enhancements

- Role-based permissions

- Media uploads

- Improved search & filtering

- Deployment with Docker