**Project Documentation**

**Insight Stream – Navigate the News Landscape**

1. **Introduction:**

**. project title: Insight stream-navigation the news landscape.**

* **Team ID**: NM2025TMID36351
* **Team Leader**:

**Name-**Jothika **R**.

**Mail-**  **jothikaramesh2329@gmail**.**com**

* **Team Members**:

**1.**Dhanalakshmi **S**. **– dhanadhana48826@gmail.com**

**2.** Dhana Lekshmi **S. – dhanasd398@gmail.com**

**3.** Kavitha **B. - kavithakavi262007@gmail.com**

**4.** Mamatha **P -** **mamatha3102007@gmail.com**

**2. Project Overview :**

* **Purpose**: Aggregates real-time news and presents it in a clean, responsive UI.
* **Features**:
  + News by categories (sports, politics, technology, etc.)
  + Search functionality
  + Bookmarking system
  + Light/Dark theme toggle

**3. Architecture :**

* **Frontend**: React.js .
* **Backend**: News API (third-party).
* **Database**: — (uses API response, optional local storage for bookmarks)

**4. Setup Instructions :**

**Prerequisites:**

* Node.js
* Git
* React.js
* VS Code

**Installation:**

# Clone repository

git clone <repo-url>

# Install dependencies

cd client

npm install

# Run project

npm start

**5. Folder Structure :**

InsightStream/

|-- src/

| |-- components/

| |-- pages/

| |-- utils/

**6. Running the Application :**

* **Frontend**:

cd client

npm start

* **Access**: [http://localhost:3000](http://localhost:3000/)

**7. API Documentation :**

* **News**:
  + /top-headlines
  + /everything?q=<keyword>
  + /category/<type>

**8. Authentication :**

* Not required (public API-based system).

**9. User Interface :**

* Home Page (latest news)
* Categories Page
* Search Bar
* Bookmarks Section
* Theme Toggle

**10. Testing :**

* **Unit & Component Testing**: Jest + React Testing Library

**11. Future Enhancements :**

* Personalized feeds (user login)
* AI-powered summarization
* Push notifications
* Offline mode

12. **Conclusion :**

Insight Stream provides a clean and responsive way to explore news in real time.  
With category filters, search, bookmarks, and theme toggle, it reduces clutter and improves accessibility.  
This project lays the foundation for future enhancements like personalization and AI-powered summarization.

THANK YOU