## Project Documentation

INSIGHT STREAM: Navigate the News Landscape

## 1.Introduction

- Project Title: INSIGHT STREAM: Navigate the News Landscape
- Team ID: NM2025TMID35585
- Team Leader: AJITHA.J & rjaprnrjaprn@gmail.com
- Team Members:
  - -SANTHIYA.A & sandy.mails321@gmail.com
    - -KANIMOZHI.S & skkani1107@gmail.com
  - -INDHUMATHI.M & venthank902@gmail.com
    - -DEVADHARSHINI.S & dharshselva06@gamil.com

## 2. Project Overview

PURPOSE:

An Insight stream serves as a dynamic platform for sharing expertise, fostering engagement, and empowering viewers with valuable knowledge and perspectives across diverse topics.

- 1. Knowledge Sharing
- 2. Audience Engagement
- 3. Expert Perspectives
- 4. Informed Decision-making
- Learning Platform
- FEATURES:
- -Real- time data insights
- -Data visualization
- -Customizable dashboards
- 3. Architecture
- Modular Design: Enables flexible content delivery.

- Data Pipeline: Processes insights from various sources.
- Content Management: Organizes curated insightful content.
- 4. Setup Instructions
- Prerequisites:
- -Technical Infrastructure
- -Software Tools
- -Team Expertise
- -Budget Allocation
- Installation Steps:

#Server/Cloud Configuration

#Install Required Software

#Database Setup

5. Folder Structure

insight- stream/

H	— app/
1	controllers/
١	models/
١	-— services/
١	-utils/

- assets/

\_\_views/

-- css/

-- js/

- images/

L\_\_ fonts/

- 6. Running the Application
- Frontend:
  - User Interface (UI) for users to interact with Insight Stream.
  - Display insights, content curated by the platform.
- Handle user interactions (like comments, shares).
- Backend:
  - Serve data/insights to the frontend.
  - Manage content curation, storage.
  - Handle analytics, user data processing.
- Access:

#Start Node.js server node server.js

#Server listens on port (e.g.,3000)

#http://localhost:3000

- 7. API Documentation
- User:
- 1. GET /api/users/{id}: Fetch user details by ID.
  - Response: User profile data (name, email...).
- 2. POST /api/users: Create a new user.
  - Request Body: { "name": "string", "email": "string" }.
  - Response: Created user details.
- 3. PUT /api/users/{id}: Update user details.
  - Request Body: { "name": "newName" }.
- DELETE /api/users/{id}: Delete a user.
- Projects:
- GET /api/projects: List projects.
  - Response: Array of projects with IDs, names.

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    Response: Project data (name, description...).

POST /api/projects: Create a project.
  - Request Body: { "name": "string", "description": "string" }.

 PUT /api/projects/{id}: Update project details.

      Chats:
1. GET /api/chats/{projectId}: Get chats for a project.

    Response: Array of chat messages.

POST /api/chats: Send a chat message.
  Request Body: { "projectId": "id", "userId": "id", "message": "text" }.
GET /api/chats/{id}/messages: Fetch messages in a chat thread.
8. Authentication
## Example (Node.js/Express)
// Login route
app.post('/login', (req, res) => {
const { username, password } = req.body;
// Verify credentials
if (validCredentials) {
 const token = generateToken(user);
  res.json({ token });
} else {
 res.status(401).send('Unauthorized');
}
});
```

// Protected route

GET /api/projects/{id}: Fetch project details by ID.

```
app.get('/api/user', authenticateToken, (req, res) => {
 res.json(req.user);
});
9.User Interface
1. *Dashboard*: Overview of insights.
2. *Content Feed*: Shows curated content.
3. *Profile*: User settings.
4. *Search*: Find insights/projects.
5. *Interactions*: Comments, likes
10. Testing
Manual testing involves human testers interacting with the application to identify issues.
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Tools:Jest,Cypress,Mocha